Forest County Hazard Mitigation Plan

Appendix A – Bibliography

1. Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C., Section 322, as amended
2. Federal Emergency Management Agency, Plan Review Crosswalk, Multi-Hazard Mitigation Planning Guidance Under the Disaster Mitigation Act of 2000, (October 1, 2011).
3. Disaster Mitigation Act, Public Law 106-390 of October 10, 2000.
4. Forest County Comprehensive Plan: http://www.co.forest.pa.us/
5. Forest County Hazard Mitigation Plan, 2008
6. Forest County Emergency Operations Plan, 2009
7. Forest County Hazardous Vulnerability Assessment, 2013
8. Forest County Subdivision and Land Development Ordinance: http://www.co.forest.pa.us/
9. Forest County Home Page: http://www.co.forest.pa.us/
10. Forest County Conservation District: http://www.co.forest.pa.us/
11. Pennsylvania Hazard Mitigation Plan, 2013
12. FEMA 386-1: *Getting Started*. September 2002
13. FEMA 386-2: *Understanding Your Risks: Identifying Hazards and Estimating Losses*. August 2001
14. FEMA 386-3: *Developing the Mitigation Plan*. April 2003
15. FEMA 386-4: *Bringing the Plan to Life*. August 2003
16. FEMA 386-5: *Using Benefit-Cost Review in Mitigation Planning*. May 2007
17. FEMA 386-6: *Integrating Historic Property and Cultural Resource Considerations into Hazard Mitigation Planning*. May 2005
18. FEMA 386-7: *Integrating Manmade Hazards into Mitigation Planning*. September 2003
19. FEMA 386-8: *Multijurisdictional Mitigation Planning*. August 2006
20. FEMA 386-9: *Using the Hazard Mitigation Plan to Prepare Successful Mitigation Projects*. August 2008
21. FEMA *Local Multi-Hazard Mitigation Planning Guidance*. July 1, 2008
22. FEMA Mitigation Ideas, A Resource for Reducing Risk to Natural Hazards, January 2013
23. National Fire Protection Association – *NFPA 1600 Standard on Disaster/Emergency Management and Business Continuity Programs*, 2007 Edition.
24. Pennsylvania Department of Labor and Industry, *Building Codes: Uniform Construction Code*, http://www.dli.state.pa.us/landi/cwp/view.asp?a=310&q=2108
25. Pennsylvania Department of Labor and Industry, *Building Codes: Uniform Construction Code*, http://www.dli.state.pa.us/landi/cwp/view.asp?a=310&q=21089
26. Pennsylvania Department of Labor and Industry, *Building Codes: Uniform Construction Code*, http://www.dli.state.pa.us/landi/cwp/view.asp?a=310&q=21089
27. Federal Emergency Management Agency. Federal Insurance and Mitigation Administration. *National Flood Insurance Program*. Program description, August 01, 2002, http://www.fema.gov/doc/library/nfipdescrip.doc
28. Pennsylvania Department of Environmental Protection, Act 167 *Stormwater Management Plan Status by DEP Region* (11/07/06) http://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/StormwaterManagement/TechnicalInformation/167Re gionReport.pdf
29. Environmental Protection Agency. “National Priorities List (NPL)”. (2009). URL: http://www.epa.gov/superfund/sites/npl/
30. Environmental Protection Agency. “Natural Disaster PSAs”. (2009). URL: http://www.epa.gov/naturalevents/psa.html
31. Koppen-Geiger Climate Classification Map: http://koeppen-geiger.vu-wien.ac.at/present.htm
32. 2010 United Stated Census Data: http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=bkmk
33. US Census – American Community Survey at: http://www.ruralpa2.org/county_profiles.cfm
34. ORACLE’ Think Quest Education Foundation: http://www.thinkquest.org/en/

35. Pennsylvania Groundwater Information System (PaGWIS), http://www.dcnr.state.pa.us/topogeo/groundwater/pagwis/index.htm
36. PA DCNR Interactive Map, http://www.gis.dcne.state.pa.us/maps/index.html?geology=true
37. U.S. Geological Survey http://www.usgs.gov
38. Accue Weather http://www.accuweather.com
39. Bing images Heat Waves
40. NOAA www.noaa.gov
41. Weather Channel, www.weather.com
42. National Climatic Data Center, http://www.ncdc.noaa.gov/temp-and-precip/uspa/index.php?area=warm-cold&month=0
43. National Climatic Data Center, http://www.ncdc.noaa.gov/flooding
44. List of Storms in PA http://en.wikipedia.org/wiki/List_of_Pennsylvania_hurricanes
45. Tropical Storm Lee http://en.wikipedia.org/wiki/Tropical_Storm_Lee_(2011)
46. Hurricane Sandy http://en.wikipedia.org/wiki/Hurricane_Sandy
47. Emerald Ash Borer Map, http://www.invasivespeciescouncil.com/HomeHistory.aspx
48. 2013 Gypsy Moth Egg Surveys, http://www.dcnr.state.pa.us/conservationscience/invasivespecies/
49. Gypsy Moth data, http://www.fs.fed.us/ne/morgantown/4557/gmoth/
50. National Climatic Data Center Lightning Strikes Data, http://www.ncdc.noaa.gov/
51. Pennsylvania Department of Health, Health Statistics and Research, www.health.state.pa.us
52. World Health Organization, www.who.int
53. Bird Flu article, http://www.mdlinx.com/infectious-disease/articles.cfm/news/vaccination
54. Health Physics Society- Background Information on "Update on Perspectives and Recommendations on Indoor Radon" Revised October 2009.
55. Forest County Radon Percentages, www.*wpb-radon.com/PA_radon_map.html*
56. Enhanced Fujita Scale – http://www.spc.noaa.gov/faq/tornado/f-scale.html
57. Pennsylvania Tornadoes – The Tornado Project, www.tornadoproject.com/alltorns/patorn.htm
58. Microbursts – http://en.wikipedia.org/wiki/Microburst
59. National Weather Service, Pennsylvania Annual Snowfall 1981-2010
60. National Climatic Data Center: ftp://ftp.ncdc.noaa.gov/pub/data/snowmonitoring/snow-inventory.txt
61. National Inventory of Dams: http://geo.usace.army.mil/pgis/f?p=397:4:78249022057301::NO
62. U.S. Environmental Protection Agency's (USEPA) Toxic Release Inventory (TRI) database (http://www.epa.gov/enviro/geo_data.html)
63. Pennsylvania Department of Transportation: http://www.dot.state.pa.us/Internet/Bureaus/pdBHSTE.nsf/BHSTEHomepage?OpenFrameset
64. Pennsylvania Department of Transportation: http://www.dot.state.pa.us/Internet/Bureaus/pdPlanRes.nsf/PlanningAndResearchHomePage?OpenFrameset&Frame=main&src=HomePageHighwayStatistics?readform
65. Federal Aviation Administration: http://www.faa.gov/data_research/accident_incident/
66. National Climatic Data Center: http://www.ncdc.noaa.gov/temp-and-precip/time-series/index.php?parameter=tmp&month=4&year=2013&filter=1&state=36&div=3
67. National Regulatory Commission: http://www.nrc.uscg.mil/incident_type_2000up.html
68. Pennsylvania Emergency Management Agency: http://www.pema.state.pa.us/
69. Pennsylvania Emergency Management Agency: *Draft Standard Operating Guide* (February 10, 2012)
70. Pennsylvania Emergency Management Services Code. Title 35, Pa C.S. Section 101
71. Pennsylvania Municipalities Planning Code of 1968, Act 247 as reenacted and amended by Act 170 of 1988

72. Pennsylvania Stormwater Management Act of October 4, 1978. P.L. 864, No. 167
73. United States Environmental Protection Agency: Toxic Release Inventory

LOCAL MITIGATION PLAN REVIEW TOOL

The *Local Mitigation Plan Review Tool* demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The Regulation Checklist provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The Plan Assessment identifies the plan's strengths as well as documents areas for future improvement.
- The Multi-jurisdiction Summary Sheet is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction: Forest County	**Title of Plan:** Forest County Hazard Mitigation Plan Update	**Date of Plan:** December 2020
Local Point of Contact: Donna Lynn Zofcin	**Address:**	
Title: Executive Director	526 Elm Street, Box 4 Tionesta, PA 16353	
Agency: Forest County Conservation District & Planning Department		
Phone Number: 814-755-3450	**E-Mail:** Dzofcin@co.forest.pa.us	

State Reviewer: Ernest Szabo	**Title:** State Hazard Mitigation Planner	**Date:** December 28, 2020

FEMA Reviewer: **Mari Radford** Claire Fetters	**Title:** **Community Planning Lead** CERC Planner		**Date:** **February 26, 2021** **and 5/6/2021**
Date Received in FEMA Region 3	1/15/2021	5/4/2021	Plan expired 10/5/2019
Plan Not Approved			
Plan Approvable Pending Adoption	5/6/2021		
Plan Approved			

SECTION 1:
REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	**Location in Plan (section and/or page number)**	**Met**	**Not Met**
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	Section 3, pp. 11-15; Appendix C, pp. 1-54; Appendix F, pp. 1-37; Appendix G, pp. 1-24; Appendix I, pp. 1-7	X	
A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	Section 3, pp. 12, 14; Appendix C, pp. 1-5	X	
A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	Section 3, pp. 11, 14-15	X	
A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))	Section 1, pp. 2-3; Section 2, pp. 9-10; Section 3, p. 16; Appendix A, pp. 1-3	X	
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))	Section 7, p. 120	X	
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	Section 7, p. 118	X	
ELEMENT A: REQUIRED REVISIONS .			

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	**Location in Plan (section and/or page number)**	**Met**	**Not Met**
ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSMENT			
B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	Section 4, pp. 17-89; Appendix D, pp. 1-9; Appendix H, pp. 1-19	X	
B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	Section 4, pp. 17-89; Appendix H, pp. 1-19	X	
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	Section 4, pp. 17-89; Appendix D, pp. 1-9; Appendix E, pp. 1-11; Appendix H, pp. 1-19	X	
B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))	Section 4, pp. 39	X	
ELEMENT B: REQUIRED REVISIONS			
ELEMENT C. MITIGATION STRATEGY			
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	Section 5, pp. 90-101; Appendix F, pp. 1-37	X	
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	Section 4, p. 39; Section 5, pp. 91-93; Section 6, pp. 111-114	X	
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))	Section 6, p. 106	X	
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	Section 6, pp. 110-113	X	
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	Section 6, pp. 110-113, 114-117	X	
C6. Does the Plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	Section 6, p. 109 Section 7,pp 121,123	X	

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	**Location in Plan (section and/or page number)**	**Met**	**Not Met**
ELEMENT C: REQUIRED REVISIONS			
ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLEMENTATION (applicable to plan updates only)			
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))	Section 2, pp. 6-9; Section 4, p. 89	X	
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))	Section 6, pp. 103, 109; Appendix J, pp. 4-5	X	
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))	Section 4, pp. 17-18, 26-30; Section 6, pp. 103, 106; Section 7, p. 118; Appendix G, pp. 1-24	X	
ELEMENT D: REQUIRED REVISIONS			
ELEMENT E. PLAN ADOPTION			
E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))	Section 8, p. 121; Appendix K, p. 1		
E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption? (Requirement §201.6(c)(5))	Section 8, p. 121; Appendix K, p. 2		
ELEMENT E: REQUIRED REVISIONS			
ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPTIONAL FOR STATE REVIEWERS ONLY; NOT TO BE COMPLETED BY FEMA)			
F1.			
F2.			
ELEMENT F: REQUIRED REVISIONS			
OPTIONAL: HIGH HAZARD POTENTIAL DAM RISKS			
HHPD1. Did Element A4 (planning process) describe the incorporation of existing plans, studies, reports, and technical information for high hazard potential dams?	Section 4, pp. 74-76		X
HHPD2. Did Element B3 (risk assessment) address HHPDs?	Section 4, pp. 74-76 Appendix H, pp. 1-19		X

1. REGULATION CHECKLIST **Regulation** (44 CFR 201.6 Local Mitigation Plans)	**Location in Plan** (section and/or page number)	**Met**	**Not Met**
HHPD3. Did Element C3 (mitigation goals) include mitigation goals to reduce long-term vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?	Section 6, p. 106		X
HHPD4. Did Element C4-C5 (mitigation actions) address HHPDs prioritize mitigation actions to reduce vulnerabilities from high hazard potential dams that pose an unacceptable risk to the public?	Section 6, pp. 110		X

REQUIRED REVISIONS

HHPD1. The plan does not identify which plans, studies, or reports were incorporated into the dam failure profile. While the plan indicates that there is an Emergency Operations Plan (EOP) for the Tionesta Dam, it does not describe how information from the EOP was incorporated. It is also not clear if any of the invited plan participants are responsible for dam safety or if they contributed material to the dam assessment.

HHPD2. While the plan provides a general overview of the risks posed from dam failure, it does not specifically identify the potential impacts or the vulnerable structures to the Tionesta Dam, which is the sole high hazard dam in the County. While a map is provided in Appendix H, there is no discussion of the people, homes, businesses, or other community assets that could be impacted in the event of a failure event. The HHPD requirements are to go above and beyond the standard plan review requirements.

HHPD3. There is not a goal that specifically addresses dam failure. One way to meet this requirement is to add an objective under Goal 4, which is to reduce the impacts of man-made hazards.

HHPD4. The plan does not identify a mitigation action to address high hazard potential dams. The only action relating to dams involves routinely reviewing emergency plans. To meet this requirement, an action that specifically addresses high hazard potential dams must be identified. Such a mitigation action might include creating inundation maps or performing an analysis of potentially affected areas for the Tionesta Dam.

SECTION 2:
PLAN ASSESSMENT

INSTRUCTIONS: The purpose of the Plan Assessment is to offer the local community more comprehensive feedback to the community on the quality and utility of the plan in a narrative format. The audience for the Plan Assessment is not only the plan developer/local community planner, but also elected officials, local departments and agencies, and others involved in implementing the Local Mitigation Plan. The Plan Assessment must be completed by FEMA. The Assessment is an opportunity for FEMA to provide feedback and information to the community on: 1) suggested improvements to the Plan; 2) specific sections in the Plan where the community has gone above and beyond minimum requirements; 3) recommendations for plan implementation; and 4) ongoing partnership(s) and information on other FEMA programs, specifically RiskMAP and Hazard Mitigation Assistance programs. The Plan Assessment is divided into two sections:

1. Plan Strengths and Opportunities for Improvement
2. Resources for Implementing Your Approved Plan

Plan Strengths and Opportunities for Improvement is organized according to the plan Elements listed in the Regulation Checklist. Each Element includes a series of italicized bulleted items that are suggested topics for consideration while evaluating plans, but it is not intended to be a comprehensive list. FEMA Mitigation Planners are not required to answer each bullet item, and should use them as a guide to paraphrase their own written assessment (2-3 sentences) of each Element.

The Plan Assessment must not reiterate the required revisions from the Regulation Checklist or be regulatory in nature, and should be open-ended and to provide the community with suggestions for improvements or recommended revisions. The recommended revisions are suggestions for improvement and are not required to be made for the Plan to meet Federal regulatory requirements. The italicized text should be deleted once FEMA has added comments regarding strengths of the plan and potential improvements for future plan revisions. It is recommended that the Plan Assessment be a short synopsis of the overall strengths and weaknesses of the Plan (no longer than two pages), rather than a complete recap section by section.

Resources for Implementing Your Approved Plan provides a place for FEMA to offer information, data sources and general suggestions on the overall plan implementation and maintenance process. Information on other possible sources of assistance including, but not limited to, existing publications, grant funding or training opportunities, can be provided. States may add state and local resources, if available.

A. Plan Strengths and Opportunities for Improvement

1. While the High Hazard Potential Dam (HHPD) grant program is voluntary, if the county plans to pursue a future grant they should expand their dam profile and mitigation actions to include the missing data detailed on this Plan Review Tool.
2. It was good that you invited neighboring counties to participate.
3. Be sure to use the PEMA Standard Operating Guide for your next plan update. Having a standardized format allows the state to roll all 66 plans into the state plan with continuity. It also helps ensure you meet all their requirements in addition to those of FEMA.
4. Consider including an Executive Summary in your next plan update. It should be brief (2 pages) and should highlight what has changed since your last plan in terms of risk (new hazards, increasing or decreasing risk), mitigation accomplished, and challenges identified. It can also talk about what changes you made to your planning process and planning team. We find elected officials, residents and the media are more likely to read an Executive Summary than a 150 plus page plan.
5. You should also review the 2020 Census data and amend you plan if there are significant changes.
6. Is the Correctional facility a major employer for the County? It certainly makes a huge difference in Forest County's overall population!
7. Your local planning team needs to be expanded to include representation beyond the municipalities and public sector. Start building it with your annual plan reviews to bring new voices to the discussion of how Forest County can be made more resilient. Missing sectors include big business, small business (invite the Chamber of Commerce), schools, medical facilities, utilities, PenDOT, US Forestry, non profits etc. Having an expanded planning team will help in 2 ways; they will help provide information on their concerns and will also bring back information to their sector on the county's initiatives and opportunities for mitigation at both a large and small (personal) scale. This will be a requirement for your next plan update.
8. Including photos of previous disaster damage or familiar landmarks is a great way to connect readers of your plan with the content. If you don't already have a cache of images, start collecting them now so you will have them to use in your next plan update and for other media purposes.
9. Both Moodys and Standard & Poors are reviewing local Hazard Mitigation Plans for climate change awareness and action as they conduct municipal bond ratings. While you have met the 44 CFR requirement for "future conditions" you may find this plan does not represent you well with these services. For your next plan update, consider expanding this discussion.
10. You cited the 2013 State Hazard Mitiagtion Plan on page 47, however the most recent update occurred in 2018.

SECTION 1:
MULTI-JURISDICTION SUMMARY SHEET (OPTIONAL)

INSTRUCTIONS: For multi-jurisdictional plans, a Multi-jurisdiction Summary Spreadsheet may be completed by listing each participating jurisdiction, which required Elements for each jurisdiction were 'Met' or 'Not Met,' and when the adoption resolutions were received. This Summary Sheet does not imply that a mini-plan be developed for each jurisdiction; it should be used as an optional worksheet to ensure that each jurisdiction participating in the Plan has been documented and has met the requirements for those Elements (A through E).

MULTI-JURISDICTION SUMMARY SHEET												
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Requirements Met (Y/N)					
							A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require-ments
1	Barnett Township	Township	David Dunn	2301 Belltown Rd. Clarington, PA 15828			Y	Y	Y	Y		
2	Green Township	Township	Carla Woodside	PO Box 610 Tionesta, PA 16353			Y	Y	N	Y		
3	Harmony Township	Township	Karla Beach	PO Box 208 West Hickory, PA 16370			Y	Y	N	Y		
4	Hickory Township	Township	Cindy Crytzer	PO Box 44 Endeavor, PA 16322			Y	N	Y	Y		

MULTI-JURISDICTION SUMMARY SHEET													
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Requirements Met (Y/N)					
							A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require-ments
5	Howe Township	Township	Beverly Pollock	7947 Rt. 666 Sheffield, PA 16347			Y	Y	Y	Y		
6	Jenks Township	Township	Misty Dittman	Box 436 Marienville, PA 16329			Y	Y	Y	Y		
7	Kingsley Township	Township	Jackie Blose	PO Box 339 Marienville, PA 16329			Y	Y	Y	Y		
8	Tionesta Borough	Borough	Cindy Crytzer	PO Box 44 Endeavor, PA 16322			Y	Y	Y	Y		
9	Tionesta Township	Township	Marcie McFarland	PO Box 307 Tionesta, PA 16353			Y	Y	Y	Y		
10	Forest County	County	Donna Lynn Zofcin	526 Elm Street, Box 4 Tionesta, PA 16353			Y	Y	Y	Y		

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 18, 2020

Deputy Director Denny Logue
Clarion County Dept. of Public Safety
421 Madison Rd
Clarion, PA 16214

Dear Deputy Director Logue:

The Forest County Commissioners have been tasked with completing an update to the current Forest County Hazard Mitigation Plan. The update process began in October 2018. The Forest County Hazard Mitigation Plan was updated and available for public comment on December 21, 2020. The public comment period will remain open until January 21, 2021.

It is important that the counties surrounding Forest County have the ability to review and comment on the updated draft Forest County Hazard Mitigation Plan. The draft plan is available at the Forest County website, www.co.forest.pa.us and is located in the conservation district portion of the website. If you would like to have a digital copy sent to you, please feel free to contact me. If you have comments in reference to the plan, please forward your comments in writing to the attention of Donna Lynn Zofcin.

If you have any questions, please feel free to contact Donna Lynn Zofcin at the Forest County Conservation and Planning Office at 814-755-3450.

Sincerely,

Donna Lynn Zofcin,
Executive Director
Forest County Conservation District & Planning Department

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 18, 2020

Director Michael A. McAllister
250 Main St
PO Box 448
Ridgway, PA 15853

Dear Director McAllister:

The Forest County Commissioners have been tasked with completing an update to the current Forest County Hazard Mitigation Plan. The update process began in October 2018. The Forest County Hazard Mitigation Plan was updated and available for public comment on December 21, 2020. The public comment period will remain open until January 21, 2021.

It is important that the counties surrounding Forest County have the ability to review and comment on the updated draft Forest County Hazard Mitigation Plan. The draft plan is available at the Forest County website, www.co.forest.pa.us and is located in the conservation district portion of the website. If you would like to have a digital copy sent to you, please feel free to contact me. If you have comments in reference to the plan, please forward your comments in writing to the attention of Donna Lynn Zofcin.

If you have any questions, please feel free to contact Donna Lynn Zofcin at the Forest County Conservation and Planning Office at 814-755-3450.

Sincerely,

Donna Lynn Zofcin,
Executive Director
Forest County Conservation District & Planning Department

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 18, 2020

Dept. Head Kenneth McCorrison
100 Dillon Drive
Youngsville, PA 16371

Dear Dept. Head McCorrison:

The Forest County Commissioners have been tasked with completing an update to the current Forest County Hazard Mitigation Plan. The update process began in October 2018. The Forest County Hazard Mitigation Plan was updated and available for public comment on December 21, 2020. The public comment period will remain open until January 21, 2021.

It is important that the counties surrounding Forest County have the ability to review and comment on the updated draft Forest County Hazard Mitigation Plan. The draft plan is available at the Forest County website, www.co.forest.pa.us and is located in the conservation district portion of the website. If you would like to have a digital copy sent to you, please feel free to contact me. If you have comments in reference to the plan, please forward your comments in writing to the attention of Donna Lynn Zofcin.

If you have any questions, please feel free to contact Donna Lynn Zofcin at the Forest County Conservation and Planning Office at 814-755-3450.

Sincerely,

Donna Lynn Zofcin,
Executive Director
Forest County Conservation District & Planning Department

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 18, 2020

Public Safety Director Timothy Dunkle
1052 Grandview Rd
Oil City, PA 16301

Dear Public Safety Director Dunkle:

The Forest County Commissioners have been tasked with completing an update to the current Forest County Hazard Mitigation Plan. The update process began in October 2018. The Forest County Hazard Mitigation Plan was updated and available for public comment on December 21, 2020. The public comment period will remain open until January 21, 2021.

It is important that the counties surrounding Forest County have the ability to review and comment on the updated draft Forest County Hazard Mitigation Plan. The draft plan is available at the Forest County website, www.co.forest.pa.us and is located in the conservation district portion of the website. If you would like to have a digital copy sent to you, please feel free to contact me. If you have comments in reference to the plan, please forward your comments in writing to the attention of Donna Lynn Zofcin.

If you have any questions, please feel free to contact Donna Lynn Zofcin at the Forest County Conservation and Planning Office at 814-755-3450.

Sincerely,

Donna Lynn Zofcin,
Executive Director
Forest County Conservation District & Planning Department

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 18, 2020

EMA Coordinator Allen Clark
632 Pine St
Meadville, PA 16335

Dear EMA Coordinator Clark:

The Forest County Commissioners have been tasked with completing an update to the current Forest County Hazard Mitigation Plan. The update process began in October 2018. The Forest County Hazard Mitigation Plan was updated and available for public comment on December 21, 2020. The public comment period will remain open until January 21, 2021.

It is important that the counties surrounding Forest County have the ability to review and comment on the updated draft Forest County Hazard Mitigation Plan. The draft plan is available at the Forest County website, www.co.forest.pa.us and is located in the conservation district portion of the website. If you would like to have a digital copy sent to you, please feel free to contact me. If you have comments in reference to the plan, please forward your comments in writing to the attention of Donna Lynn Zofcin.

If you have any questions, please feel free to contact Donna Lynn Zofcin at the Forest County Conservation and Planning Office at 814-755-3450.

Sincerely,

Donna Lynn Zofcin,
Executive Director
Forest County Conservation District & Planning Department

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

FOREST COUNTY ASSOCIATION OF TWP OFFICERS

2018 FALL CONVENTION

BETINA'S , MARIENVILLE

October 17, 2018

Guests/Vendors:	Signature	Mileage	Meal
James Wheeler, PSATS Chief Ed Off			PD
Kirk Kirkpatrick, PA One Call			PD
Joe Cain, US Municipal			
Tamara Kemmler, PLGIT			
Ralph Dalaba, Suit-Kote Sales Rep			PD
, Suite-Kote Rep			PD
Rod Fee, Barrs Insurance Agent			PD
Chris Sobina, Barrs Ins. Agent			PD

Forest County Courthouse:	Signature	Mileage	Meal
Commissioner Norman Wimer			PD
Commissioner Bob Snyder			PD
Commissioner Basil Huffman			PD
Donna Zofcin, Exec Dir, FCCD			PD
Shaun Wessel, Manager, Jefferson Co			PD
Carl Johnson, DGLVR, Jefferson Co			PD
Curt Kiefer, Chief Assessor/911 Co			PD
Annette Kiefer			PD
Stacey Barnes, Acting Treasurer			PD

Barnett Township:	Signature	Mileage	Meal
Terry Craig, Supervisor			PD
Jim Castner, Supervisor			PD
Kay Boyer, Secretary			PD
Denise Meiser, Auditor			

Green Township:	Signature	Mileage	Meal
Bede Meisel, Supervisor			
Mark Wagner, Supervisor			
Linda Rex, Auditor			
Dena Hartzell, Auditor			
Bonnie Heller, Auditor			

Harmony Township:	Signature	Mileage	Meal
Yvonne Watters, Tax Collector			PD
Cora Passauer, Auditor			PD
Ann Irwin, Auditor			PD

Hickory Township:

Howe Township:	Signature	Mileage	Meal
Beverly Pollock, Secretary			PD
Kay O'Rourke, Asst Secretary			PD
Supervisor			

Jenks Township:	Signature	Mileage	Meal
Greg Geyer, Supervisor			PD
Randall Parrett, Supervisor			PD
Ed Stoner, Building Officer			PD

Kingsley Township:	Signature	Mileage	Meal
Ed Conti, Supervisor			PD
Renee Conti			PD
Dan Zimmerman			PD
Jackie Blose, Secretary			PD
Brian Daquilante, Supervisor			PD
Monica Daquilante			PD

Tionesta Township:	Signature	Mileage	Meal
Todd Allio, Supervisor			PD
Bob Wagner, Supervisor			PD
Brendan Clark, Supervisor			PD
Marcie McFarland, Secretary			PD

FOREST COUNTY ASSOCIATION OF TWP OFFICERS

2019 FALL CONVENTION

FLYING W RANCH

October 17, 2019

	Guest Speakers/Vendors:	Signature	Mileage	Meal	
1	Dave Sanko, PSATS Exec Dir				
2	Kirk Kirkpatrick, PA One Call				$21.95
3	Tamara Kemmler, PLGIT				$21.95
4	Ralph Dalaba, Suit-Kote Sales Rep				$65.85
5	Chris Sobina, Barrs Insurance Agent				$43.90
6	Robin Guth, Barrs Ins. Agent				$43.90
7	Mark Kingston				$43.90
37	Chuck Stowe, PSATS				$43.90
					$21.95
	Forest County Courthouse:	Signature	Mileage	Meal	$43.90
8	Donna Lynn Zofcin, Exec Dir, FCCD				$21.95
9	Curt Kiefer, Chief Assessor/911 Co				$373.15
10	Mrs. Annette Kiefer (guest)				$1,261.15
11	Stacey Barnes, Acting Treasurer				
	Barnett Township:	Signature	Mileage	Meal	
12	Terry Craig, Supervisor				
13	Jim Castner, Supervisor				
	Green Township:	Signature	Mileage	Meal	
14	Bede Meisel, Supervisor				
15	Mark Wagner, Supervisor				
16	Mrs. Deanna Wagner (guest)				
	Harmony Township:	Signature	Mileage	Meal	
17	Yvonne Watters, Tax Collector				
18	Karla Beach, Secretary				
19	Derrick Beach, Supervisor				
20	Thomas Gibson, Supervisor				
	Hickory Township:				
	Howe Township:				
	Jenks Township:	Signature	Mileage	Meal	
21	Greg Geyer, Supervisor				
22	Randall Parrett, Supervisor				
23	Ed Stoner, Building Officer				
24	Kevin Carter, Supervisor				
25	Mrs. Carter (guest)				

	Kingsley Township:	Signature	Mileage	Meal
26	Ed Conti, Supervisor			
27	Renee Conti, Auditor			
28	Dan Zimmerman			
29	Jackie Blose, Secretary			
30	Brian Daquilante, Supervisor			

	Tionesta Township:	Signature	Mileage	Meal
31	Todd Allio, Supervisor			
32	Bob Wagner, Supervisor			
33	Brendan Clark, Supervisor			
34	Marcie McFarland, Secretary			
35	Betty Allio, Tax Collector			
36	Mr. Russ Allio (guest)			

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Mr. Terry Craig
Barnett Township
2301 Belltown Rd
Clarington, PA 15828

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Mr. Craig:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms Carla Woodside
Green Township
PO Box 610
Tionesta, PA 16353

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms Woodside:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms Karla Beach
Harmony Township
PO Box 208
West Hickory, PA 16370

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms Beach:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms. Cindy Crytzer
Hickory Township
PO Box 44
Endeavor, PA 16322

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms. Crytzer:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms. Beverly Pollock
Howe Township
7947 Rt 666
Sheffield, PA 16347

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms. Pollock:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms. Misty Dittman
Jenks Township
Box 436
Marienville, PA 16239

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms. Dittman:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms. Jackie Blose
Kingsley Township
PO Box 339
Marienville, PA 16239

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms. Blose:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms Marcie McFarland
Tionesta Township
PO Box 307
Tionesta, PA 16353

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms McFarland:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

Forest County Conservation District & Planning Department

dzofcin@co.forest.pa.us

Manager/Director
Donna Lynn Zofcin

December 27, 2019

Ms. Cindy Crytzer
Tionesta Borough
PO Box 408
Tionesta, PA 16353

RE: Forest County Hazard Mitigation Plan Update 2019

Dear Ms. Crytzer:

This letter accompanies a Municipality Hazard Identification And Risk Evaluation Worksheet and, two blank Hazard Mitigation Project Opportunity forms. You may complete as many Project Opportunity forms as you like. Please complete these forms and return them to me as soon as possible.

Please let me know if you have any questions. Thank you.

Sincerely,

Donna Lynn Zofcin
Executive Director
Forest County Conservation District & Planning Department

Enclosures

Address: 526 Elm Street, Box 4, Tionesta, PA 16353
Tel. 814.755.3450
FAX: 814.755.3539

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Robert Summers*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Robert Summers***
3815 Dubring Rd
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Jeffrey Arnold*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Jeffrey Arnold***
3905 Rt 36, Box 241
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Todd Huth*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Todd Huth***
161 Huth Lane
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:			
		SIGNED:	*Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Elton Kline*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Elton Kline***
306 Kline Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Leonard Hetrick*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Leonard Hetrick***
PO Box 383
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:		*SIGNED:*	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Robert Wagner*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Robert Wagner***
233 John Deer Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:

SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Rory Summers*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Rory Summers***
3578 Jacks Hollow Rd
Vowinckel PA 16260

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:

SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*July 28, 2020*
Attention:	*Mark Kingston*
Re:	*Hazard Mitigation Plan Update*
	Homework

TO: ***Mark Kingston***
PO Box 73
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***
1			Hazard Prioritization Table
1			Hazard Prioritization Matrix spreadsheet

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Hello Everyone, as promised I got your "homework" ready. Basically I would like you to fill in the number for the Index level value you think fits based on the category. Do not worry about the Risk Factor column, I have an excel spreadsheet that will calculate that value. Please do this ASAP and return them to me. If we are not Able to to this by mail, then I will have to do this during the next Board meeting. Thanks everyone!!

COPY TO:

SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department
526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	October 8, 2020
Attention:	Robert Summers
Re:	FCCD&P Board Meeting
	Thursday, October 22, 2020 at 6:30 pm

TO: Robert Summers
3815 Dubring Rd
Marienville PA 16239

GENTLEMEN:

☒ Attached ☐ Under separate cover via _____ the following items:

☐ Copy of Letter ☐ Prints ☐ Plans ☐ _____

Copies	Date	No.	Description
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____

☐ **PRINTS RETURNED AFTER LOAN TO US**

REMARKS:
Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:

SIGNED: Donna L. Zofcin

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department
526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	October 8, 2020
Attention:	Jeffrey Arnold
Re:	FCCD&P Board Meeting
	Thursday, October 22, 2020 at 6:30 pm

TO: Jeffrey Arnold
3905 Rt 36, Box 241
Tionesta PA 16353

GENTLEMEN:

☒ Attached ☐ Under separate cover via _____ the following items:

☐ Copy of Letter ☐ Prints ☐ Plans ☐ _____

Copies	Date	No.	Description
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____

☐ **PRINTS RETURNED AFTER LOAN TO US**

REMARKS:
Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:

SIGNED: Donna L Zofcin

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Todd Huth*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: ***Todd Huth***
161 Huth Lane
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:		
		SIGNED: *Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Elton Kline*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: ***Elton Kline***
306 Kline Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:		
		SIGNED: *Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Leonard Hetrick*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: ***Leonard Hetrick***
PO Box 383
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:			
		SIGNED:	*Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Robert Wagner*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: ***Robert Wagner***
233 John Deer Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:		
		SIGNED: *Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Rory Summers*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: ***Rory Summers***
3578 Jacks Hollow Rd
Vowinckel PA 16260

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22.
We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:

SIGNED: *Donna L. Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*October 8, 2020*
Attention:	*Mark Kingston*
Re:	*FCCD&P Board Meeting*
	Thursday, October 22, 2020 at 6:30 pm

TO: *Mark Kingston*
PO Box 73
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*
1			Forest County Mitigation Goals and Objectives Review Worksheet
1			Forest County 2020 Mitigation Action Plan

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please review these documents and make note of any changes or additions prior to the meeting on October 22. We will be discussing and approving these documents for addition into the 2020 HMP Update. Thanks.

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Robert Summers*
Re:	*Hazard Mitigation Plan*

TO: ***Robert Summers***
3815 Duhring Rd
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:

SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Jeffrey Arnold*
Re:	*Hazard Mitigation Plan*

TO: *Jeffrey Arnold*
3905 Rt 36, Box 241
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	*Date*	*No.*	*Description*

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)
Please get these back to me ASAP. If you have any questions, please call.

COPY TO:		
		SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Todd Huth*
Re:	*Hazard Mitigation Plan*

TO: ***Todd Huth***
161 Huth Lane
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:		
		SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Elton Kline*
Re:	*Hazard Mitigation Plan*

TO: ***Elton Kline***
306 Kline Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:

SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Leonard Hetrick*
Re:	*Hazard Mitigation Plan*

TO: ***Leonard Hetrick***
PO Box 383
Marienville PA 16239

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:		
		SIGNED: *Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Robert Wagner*
Re:	*Hazard Mitigation Plan*

TO: ***Robert Wagner***
233 John Deer Ln
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Rory Summers*
Re:	*Hazard Mitigation Plan*

TO: ***Rory Summers***
3578 Jacks Hollow Rd
Vowinckel PA 16260

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:			
		SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

LETTER OF TRANSMITTAL

Forest County Conservation District & Planning Department

526 Elm Street, Box 4
Tionesta PA 16353
814.755.3450 tel fax 814.755.3539

Date:	*November 2, 2020*
Attention:	*Mark Kingston*
Re:	*Hazard Mitigation Plan*

TO: ***Mark Kingston***
PO Box 73
Tionesta PA 16353

GENTLEMEN:

☒ *Attached* ☐ *Under separate cover via* _____ *the following items:*

☐ *Copy of Letter* ☐ *Prints* ☐ *Plans* ☐ _____

Copies	***Date***	***No.***	***Description***

THESE ARE TRANSMITTED as checked below:

☐ *For approval* ☐ *Approved as submitted* ☐ *Resubmit* _____ *copies for*

☒ *For your use* ☐ *Approved as noted* ☐ *Submit* _____ *copies for*

☐ *As requested* ☐ *Returned for corrections* ☐ *Return* _____ *corrected prints*

☐ *For review and comment* ☐ _____

☐ ***PRINTS RETURNED AFTER LOAN TO US***

REMARKS:

Please rank/prioritize the Hazard mitigation actions. (This should be the last "homework" I give you.)

Please get these back to me ASAP. If you have any questions, please call.

COPY TO:		
	SIGNED:	*Donna L Zofcin*

If enclosures are not as noted, kindly notify us at once.

Bob Summers

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	1	1	3	4	4	0
Earthquake	1	1	3	4	1	0
Flood, Flash Flood, and Ice Jams	2	2	2	3	3	0
Hurricane and Tropical Storm	1	1	1	1	1	0
Invasive Species	2	1	3	1	4	0
Landslides	1	1	1	4	3	0
Lightning Strike	2	1	1	4	1	0
Pandemic	2	1	1	1	4	0
Radon Exposure	1	1	1	1	1	0
Tornadoes and Windstorms	2	2	2	4	1	0
Wildfire	1	4	4	4	4	0
Winter Storms	2	1	3	1	3	0
Civil Disturbance	1	1	1	4	1	0
Dam Failure	2	3	1	4	1	0
Disorientation	1	1				0
Environmental Hazards	1	1	1	4	4	0
Transportation Accidents	1	1	1	4	1	0

Todd Hoth

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	2	2	4	1	4	0
Earthquake	1	2	4	4	1	0
Flood, Flash Flood, and Ice Jams	3	2	2	2	2	0
Hurricane and Tropical Storm	2	2	2	1	2	0
Invasive Species	4	2	4	1	4	0
Landslides	1	1	2	4	1	0
Lightning Strike	3	1	2	2	1	0
Pandemic	2	2	4	1	4	0
Radon Exposure	2	1	1	1	4	0
Tornadoes and Windstorms	2	3	2	2	1	0
Wildfire	1	1	1	4	1	0
Winter Storms	3	1	4	1	1	0
Civil Disturbance	1	1	1	4	1	0
Dam Failure	1	3	2	4	1	0
Disorientation	4	1	1	3	2	0
Environmental Hazards	2	1	1	4	1	0
Transportation Accidents	4	1	1	4	1	0

Jeff

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	2	2	3	1	4	0
Earthquake	1	3	1	4	1	0
Flood, Flash Flood, and Ice Jams	3	2	2	3	2	0
Hurricane and Tropical Storm	1	1	1	1	3	0
Invasive Species	4	1	4	1	4	0
Landslides	3	2	1	4	1	0
Lightning Strike	4	2	2	4	1	0
Pandemic	2	4	4	1	4	0
Radon Exposure	2	1	1	1	4	0
Tornadoes and Windstorms	3	2	3	2	1	0
Wildfire	3	2	3	4	3	0
Winter Storms	4	2	4	2	3	0
Civil Disturbance	1	2	1	1	4	0
Dam Failure	1	3	3	1	2	0
Disorientation	1	2	1	4	2	0
Environmental Hazards	2	3	4	1	4	0
Transportation Accidents	4	4	1	4	1	0

Leonard

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	2	2	1	1		0
Earthquake	1	1	1	1		0
Flood, Flash Flood, and Ice Jams	3	2	2	2	2	0
Hurricane and Tropical Storm	1	1	1	1	1	0
Invasive Species	3	2	2	2	2	0
Landslides	1	1	1	1	1	0
Lightning Strike	3	1	2	2	1	0
Pandemic	4	3	3	2	3	0
Radon Exposure	1	1	1	1	1	0
Tornadoes and Windstorms	2	3	2	2	2	0
Wildfire	2	2	2	2	2	0
Winter Storms	3	2	2	2	2	0
Civil Disturbance	1	1	1	1	1	0
Dam Failure	1	1	1	1	1	0
Disorientation	1	1	1	1	1	0
Environmental Hazards	2	1	1	1	1	0
Transportation Accidents	2	2	2	2	2	0

Elton Kline

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	2	1	2	1	4	0
Earthquake	1	2	2	4	2	0
Flood, Flash Flood, and Ice Jams	2	2	2	2	3	0
Hurricane and Tropical Storm	1	1	1	1	2	0
Invasive Species	2	1	1	1	1	0
Landslides	1	1	1	4	1	0
Lightning Strike	1	2	2	3	1	0
Pandemic	3	3	4	1	4	0
Radon Exposure	2	1	1	1	4	0
Tornadoes and Windstorms	2	3	3	4	2	0
Wildfire	2	1	2	4	3	0
Winter Storms	2	2	3	3	3	0
Civil Disturbance	1	2	2	4	3	0
Dam Failure	1	3	3	4	4	0
Disorientation	1	1	1	1	1	0
Environmental Hazards	2	1	1	4	2	0
Transportation Accidents	2	2	1	4	1	0

Cont

HAZARD NATURAL (N) OR HUMAN-MADE (M)	PROBABILITY	IMPACT	SPATIAL EXTENT	WARNING TIME	DURATION	RISK FACTOR (RF)
Drought	2	1	4	1	4	0
Earthquake	1	2	4	4	1	0
Flood, Flash Flood, and Ice Jams	3	3	2	4	3	0
Hurricane and Tropical Storm	2	2	4	1	3	0
Invasive Species	4	1	4	1	4	0
Landslides	4	1	1	4	3	0
Lightning Strike	4	1	1	4	1	0
Pandemic	1	1	4	1	4	0
Radon Exposure	2	1	1	1	3	0
Tornadoes and Windstorms	4	2	4	4	3	0
Wildfire	2	2	1	4	3	0
Winter Storms	3	1	4	4	3	0
Civil Disturbance	1	1	1	4	2	0
Dam Failure	1	4	2	4	4	0
Disorientation	1	1	1	4	2	0
Environmental Hazards	1	1	1	1	4	0
Transportation Accidents	3	1	1	4	2	0

Curt Kiefer						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	2	1	4	1	4	2.2
Earthquake	1	2	4	4	1	2.2
Flood, Flash Flood, and Ice Jams	3	3	2	4	3	2.9
Hurricane and Tropical Storm	2	2	4	1	3	2.4
Invasive Species	4	1	4	1	4	2.8
Landslides	4	1	1	4	3	2.4
Lightning Strike	4	1	1	4	1	2.2
Pandemic	1	1	4	1	4	1.9
Radon Exposure	2	1	1	1	3	1.5
Tornadoes and Windstorms	4	2	4	4	3	3.3
Wildfire	2	2	1	4	3	2.1
Winter Storms	3	1	4	4	3	2.7
Civil Disturbance	1	1	1	4	2	1.4
Dam Failure	1	4	2	4	4	2.7
Disorientation	1	1	1	4	2	1.4
Environmental Hazards	1	1	1	1	4	1.3
Transportation Accidents	3	1	1	4	2	2

Bob Summers

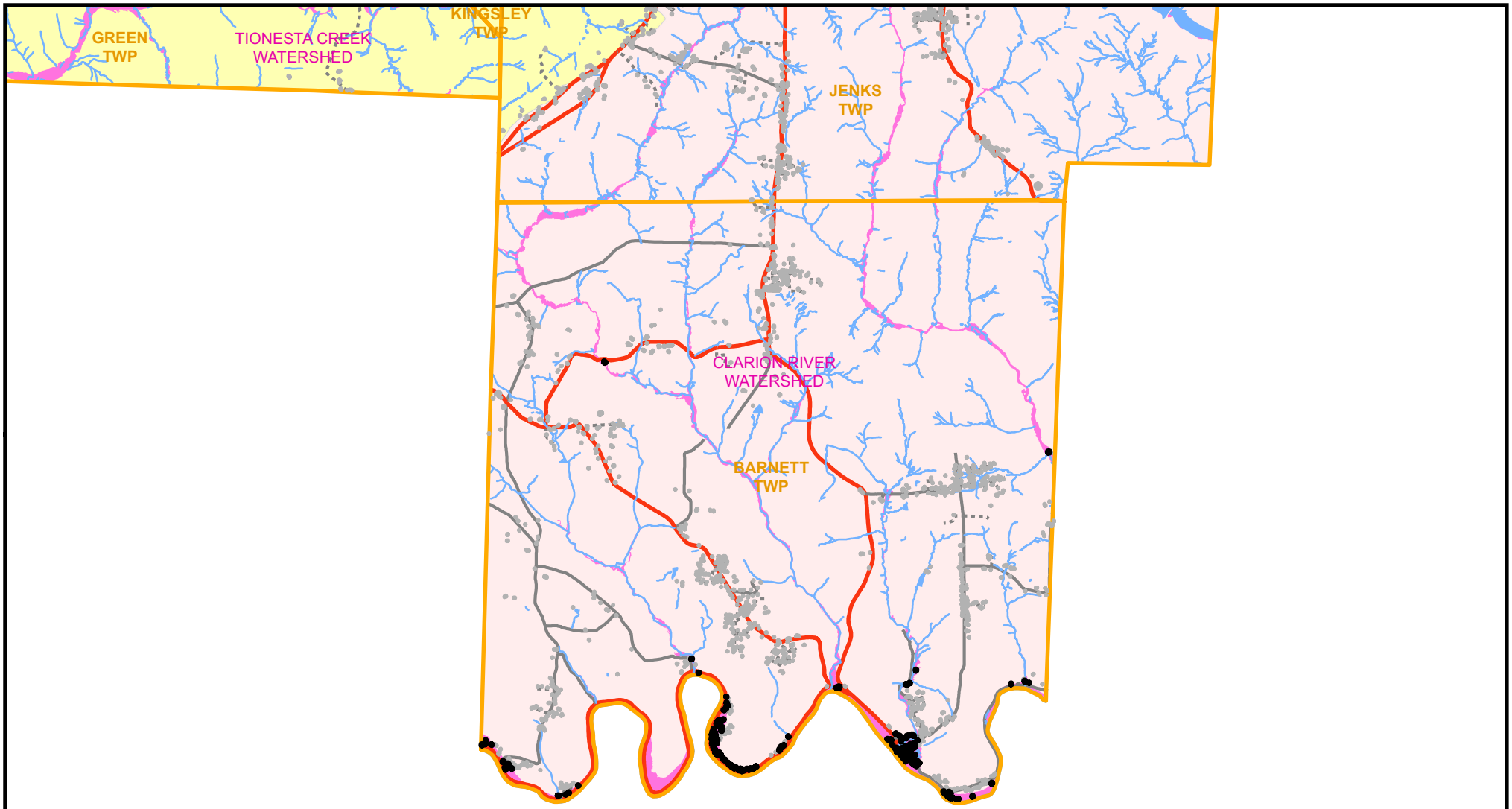
~~No Name~~						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	1	1	3	1	4	1.7
Earthquake	1	1	3	4	1	1.7
Flood, Flash Flood, and Ice Jams	2	2	2	3	3	2.2
Hurricane and Tropical Storm	1	1	1	1	1	1
Invasive Species	2	1	3	1	4	2
Landslides	1	1	1	4	3	1.5
Lightning Strike	2	1	1	4	1	1.6
Pandemic	2	1	1	1	4	1.6
Radon Exposure	1	1	1	1	1	1
Tornadoes and Windstorms	2	2	2	4	1	2.1
Wildfire	1	4	4	4	4	3.1
Winter Storms	2	1	3	1	3	1.9
Civil Disturbance	1	1	1	4	1	1.3
Dam Failure	2	3	1	4	1	2.2
Disorientation	1	1				0.6
Environmental Hazards	1	1	1	4	4	1.6
Transportation Accidents	1	1	1	4	1	1.3

Todd Huth						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	2	2	4	1	4	2.5
Earthquake	1	2	4	4	1	2.2
Flood, Flash Flood, and Ice Jams	3	2	2	2	2	2.3
Hurricane and Tropical Storm	2	2	2	1	2	1.9
Invasive Species	4	2	4	1	4	3.1
Landslides	1	1	2	4	1	1.5
Lightning Strike	3	1	2	2	1	1.9
Pandemic	2	2	4	1	4	2.5
Radon Exposure	2	1	1	1	4	1.6
Tornadoes and Windstorms	2	3	2	2	1	2.2
Wildfire	1	1	1	4	1	1.3
Winter Storms	3	1	4	1	11	3.2
Civil Disturbance	1	1	1	4	1	1.3
Dam Failure	1	3	2	4	1	2.1
Disorientation	4	1	1	3	2	2.2
Environmental Hazards	2	1	1	4	1	1.6
Transportation Accidents	4	1	1	4	1	2.2

Leonard Hetrick						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	2	2	1	1		1.5
Earthquake	1	1	1	1		0.9
Flood, Flash Flood, and Ice Jams	3	2	2	2	2	2.3
Hurricane and Tropical Storm	1	1	1	1	1	1
Invasive Species	3	2	2	2	2	2.3
Landslides	1	1	1	1	1	1
Lightning Strike	3	1	2	2	1	1.9
Pandemic	4	3	3	2	3	3.2
Radon Exposure	1	1	1	1	1	1
Tornadoes and Windstorms	2	3	2	2	1	2.2
Wildfire	2	2	2	2	2	2
Winter Storms	3	2	2	2	2	2.3
Civil Disturbance	1	1	1	1	1	1
Dam Failure	1	1	1	1	1	1
Disorientation	1	1	1	1	1	1
Environmental Hazards	2	1	1	1	1	1.3
Transportation Accidents	2	2	2	2	2	2

Elton Kline						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	2	1	2	1	4	1.8
Earthquake	1	2	2	4	2	1.9
Flood, Flash Flood, and Ice Jams	2	2	2	2	3	2.1
Hurricane and Tropical Storm	1	1	1	1	2	1.1
Invasive Species	2	1	1	1	1	1.3
Landslides	1	1	1	4	1	1.3
Lightning Strike	1	2	2	3	1	1.7
Pandemic	3	3	4	1	4	3.1
Radon Exposure	2	1	1	1	4	1.6
Tornadoes and Windstorms	2	3	3	4	2	2.7
Wildfire	2	1	2	4	3	2
Winter Storms	2	2	3	3	3	2.4
Civil Disturbance	1	2	2	1	3	1.7
Dam Failure	1	3	3	4	4	2.6
Disorientation	1	1	1	1	1	1
Environmental Hazards	2	1	1	4	2	1.7
Transportation Accidents	2	2	1	4	1	1.9

Jeffrey Arnold						
HAZARD NATURAL (N) OR HUMAN-MADE (M)	**PROBABILITY**	**IMPACT**	**SPATIAL EXTENT**	**WARNING TIME**	**DURATION**	**RISK FACTOR (RF)**
Drought	2	2	3	1	4	2.3
Earthquake	1	3	1	4	1	1.9
Flood, Flash Flood, and Ice Jams	3	2	2	3	2	2.4
Hurricane and Tropical Storm	1	1	1	1	3	1.2
Invasive Species	4	1	4	1	4	2.8
Landslides	3	2	1	4	1	2.2
Lightning Strike	4	2	2	4	1	2.7
Pandemic	2	4	4	1	4	3.1
Radon Exposure	2	1	1	1	4	1.6
Tornadoes and Windstorms	3	2	3	2	1	2.4
Wildfire	3	2	3	4	3	2.8
Winter Storms	4	2	4	2	3	3.1
Civil Disturbance	1	2	1	1	4	1.6
Dam Failure	1	3	3	1	2	2.1
Disorientation	1	2	1	4	2	1.7
Environmental Hazards	2	3	4	1	4	2.8
Transportation Accidents	4	4	1	4	1	3.1



Forest County
Structures within 100-year Floodplain

Barnett Township

N

1 in = 1.5 miles

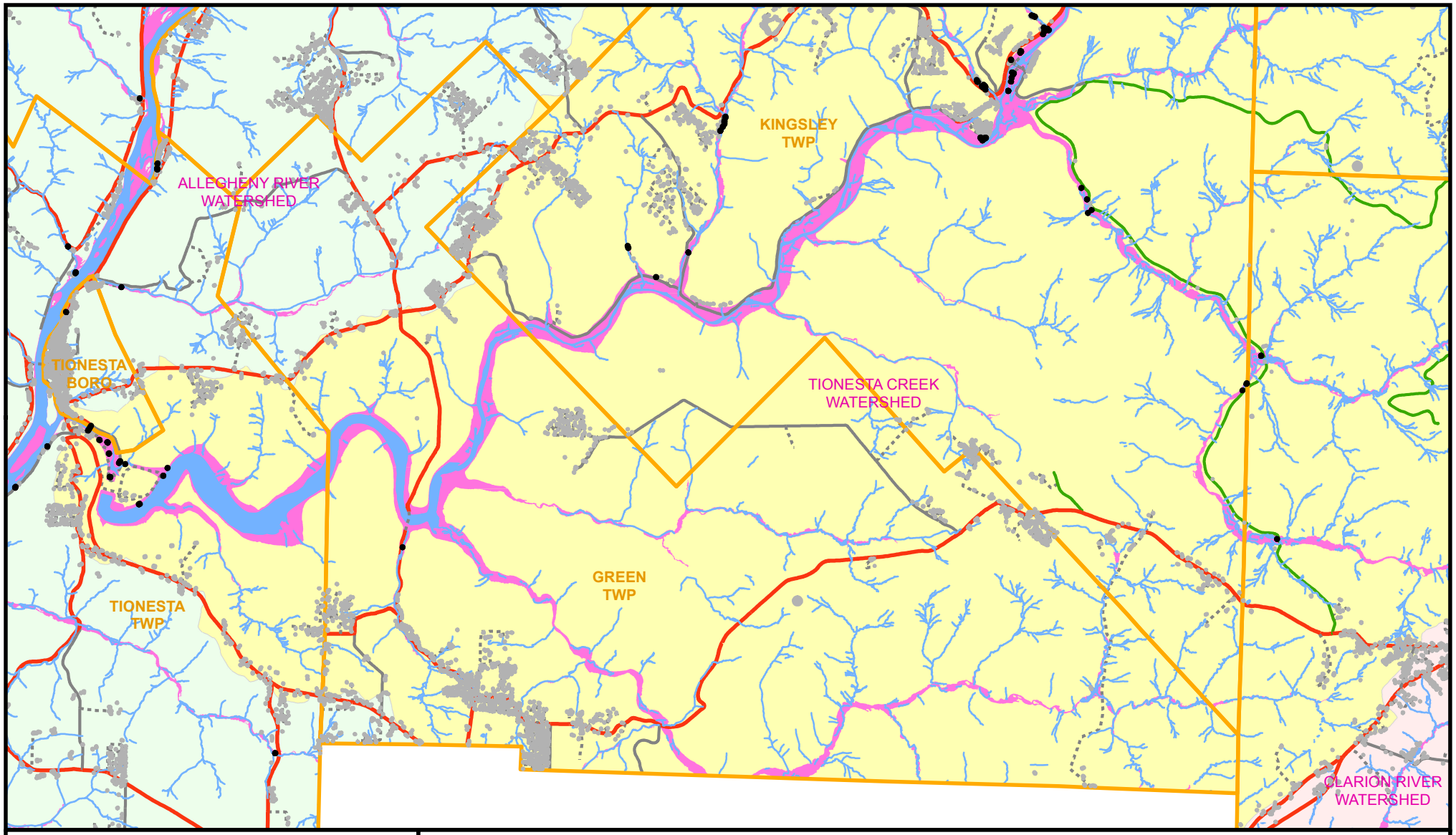
Structures in Floodplain - 175 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Green Township

N

1 in = 1.5 miles

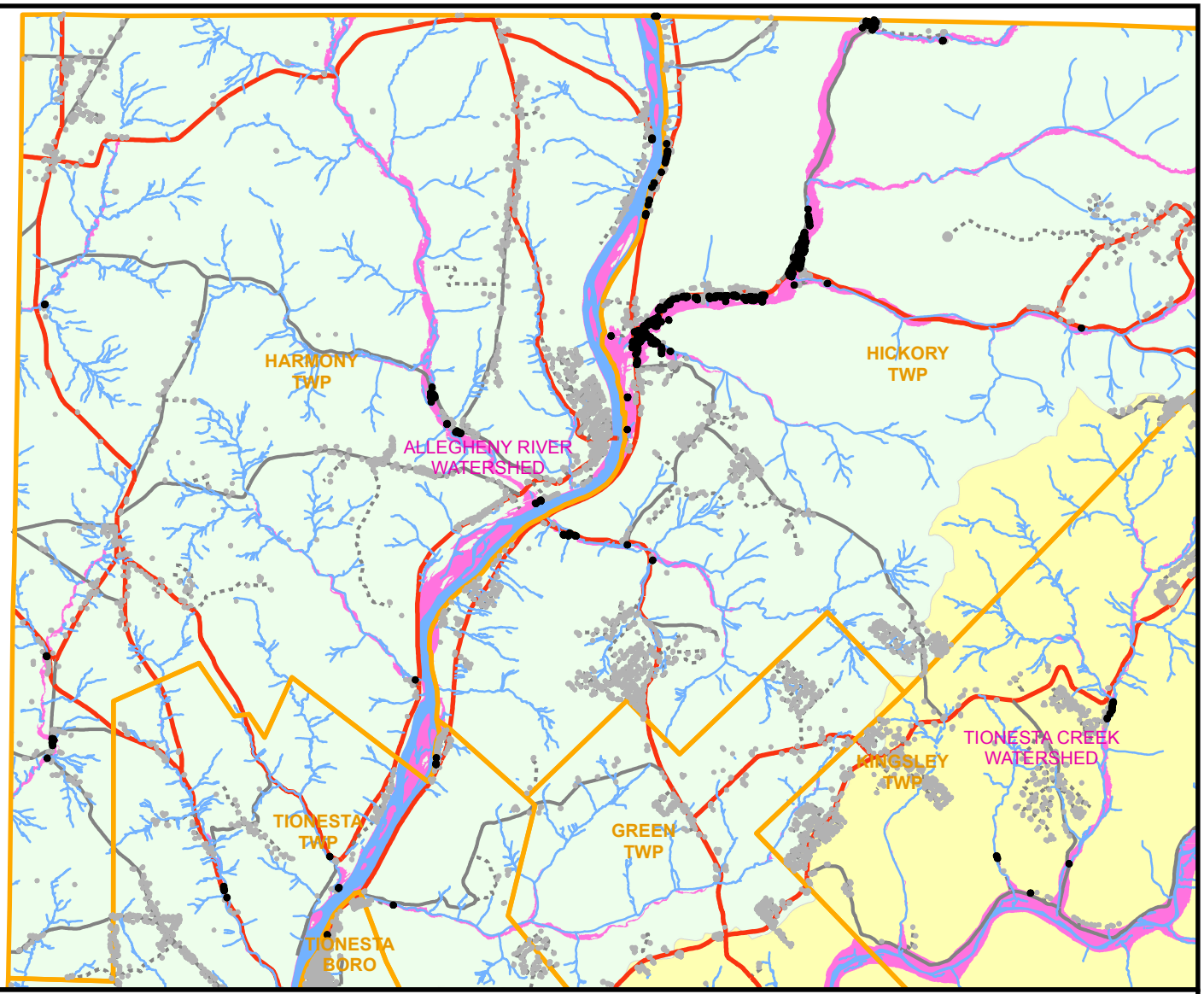
Structures in Floodplain - 1 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Harmony Township

N

1 in = 1.5 miles

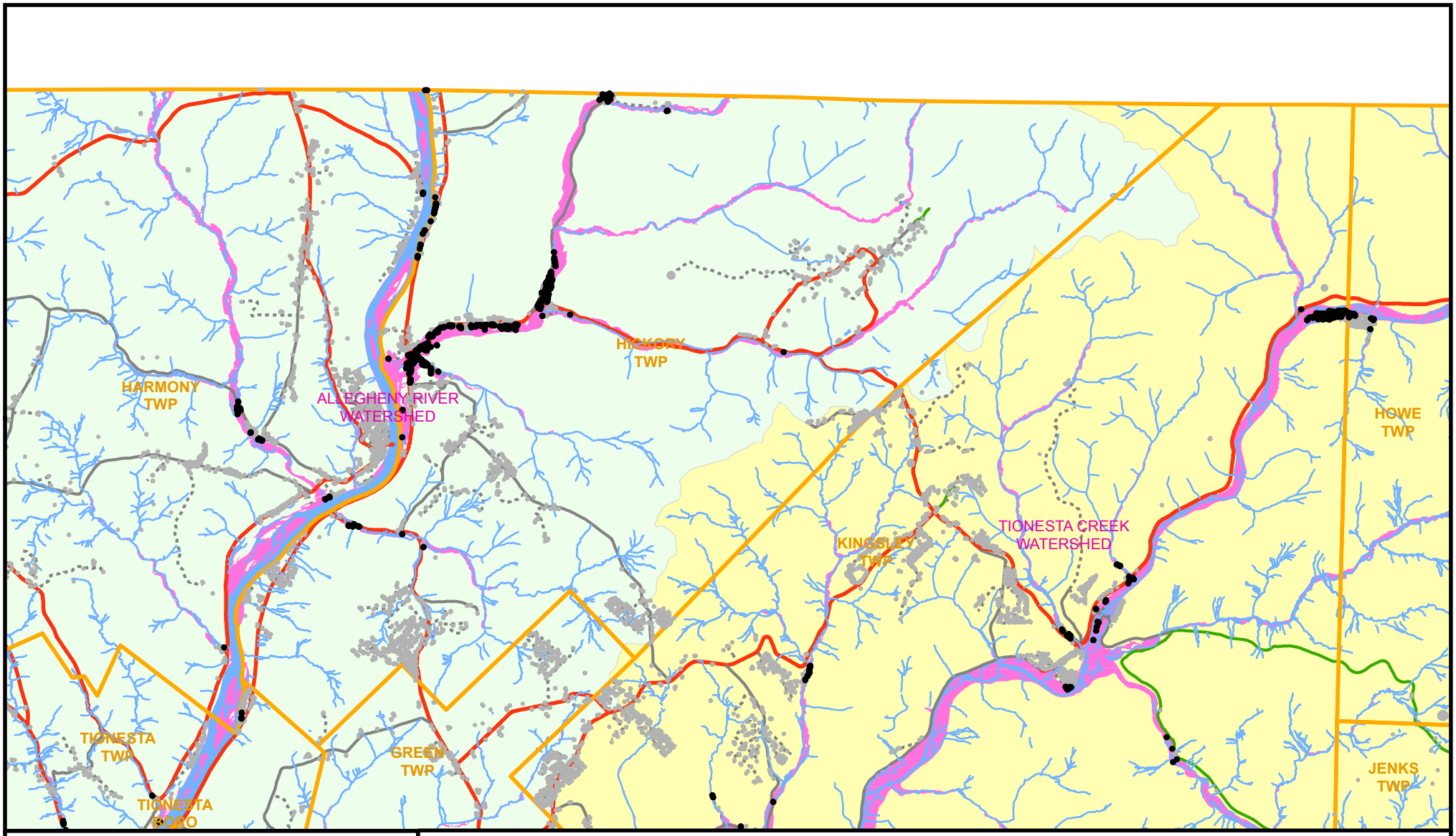
Structures in Floodplain - 30 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Hickory Township

N

1 in = 1.5 miles

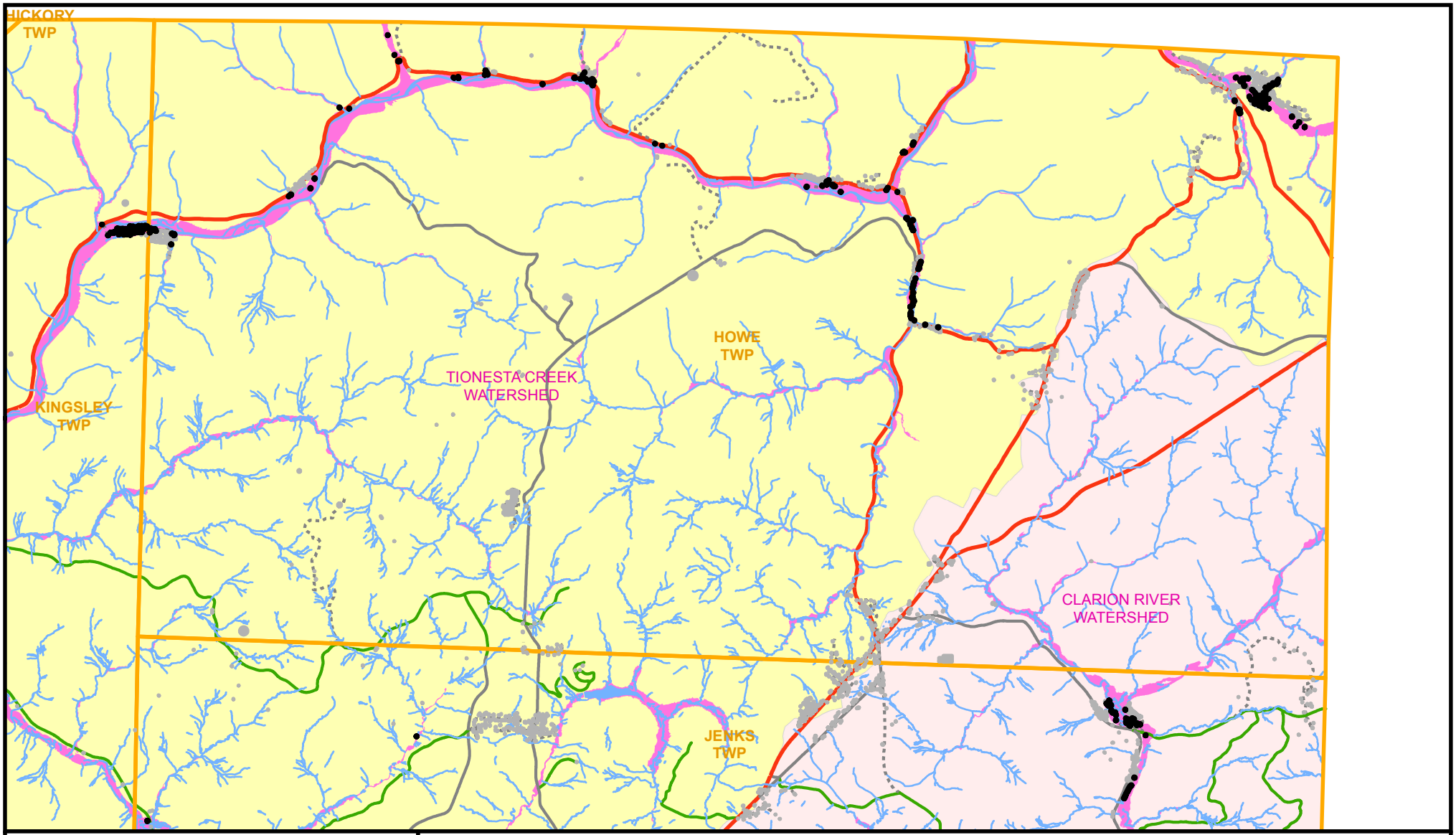
Structures in Floodplain - 227 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Howe Township

N

1 in = 1.5 miles

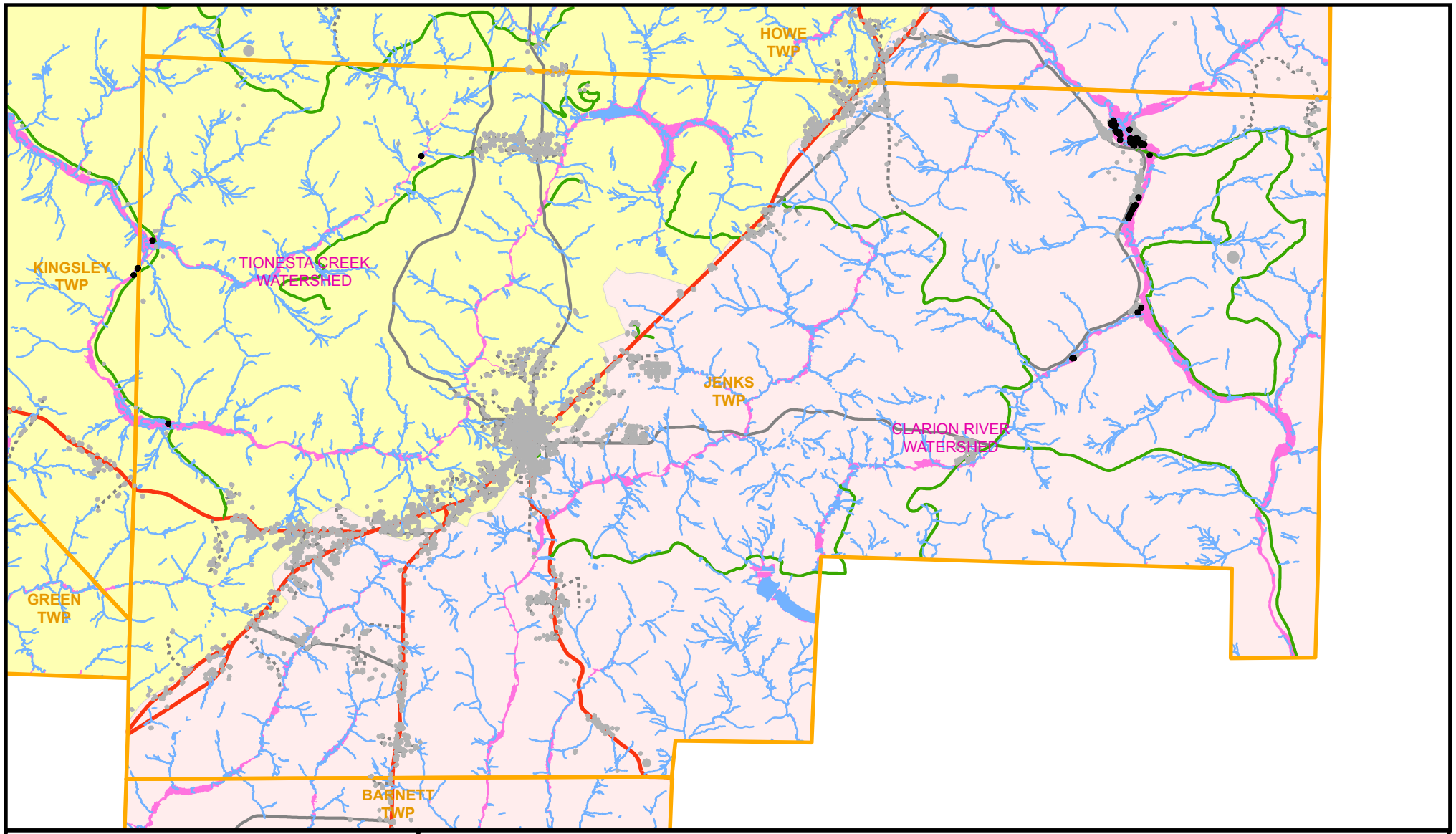
Structures in Floodplain - 159 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Jenks Township

N

1 in = 1.5 miles

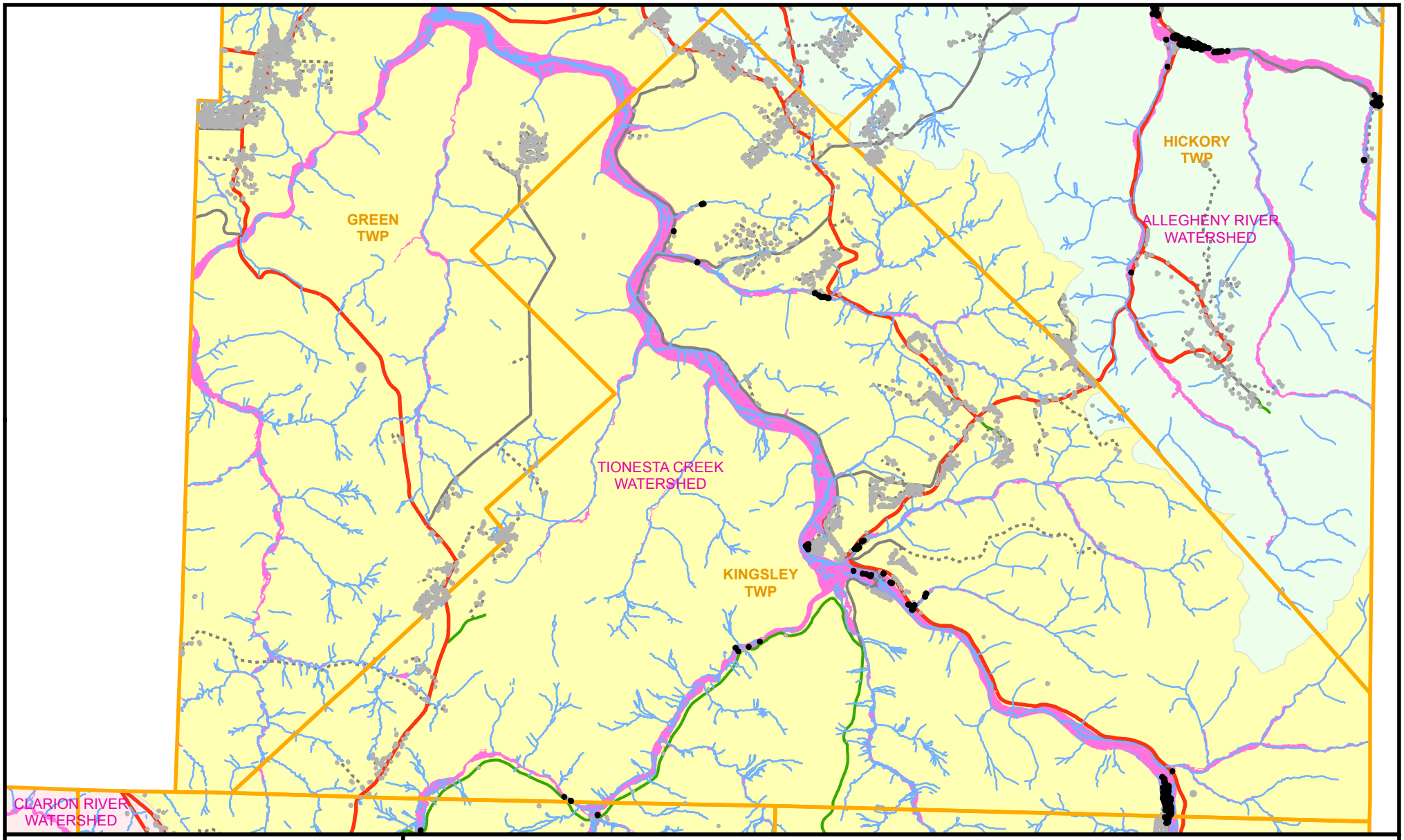
Structures in Floodplain - 47 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Kingsley Township

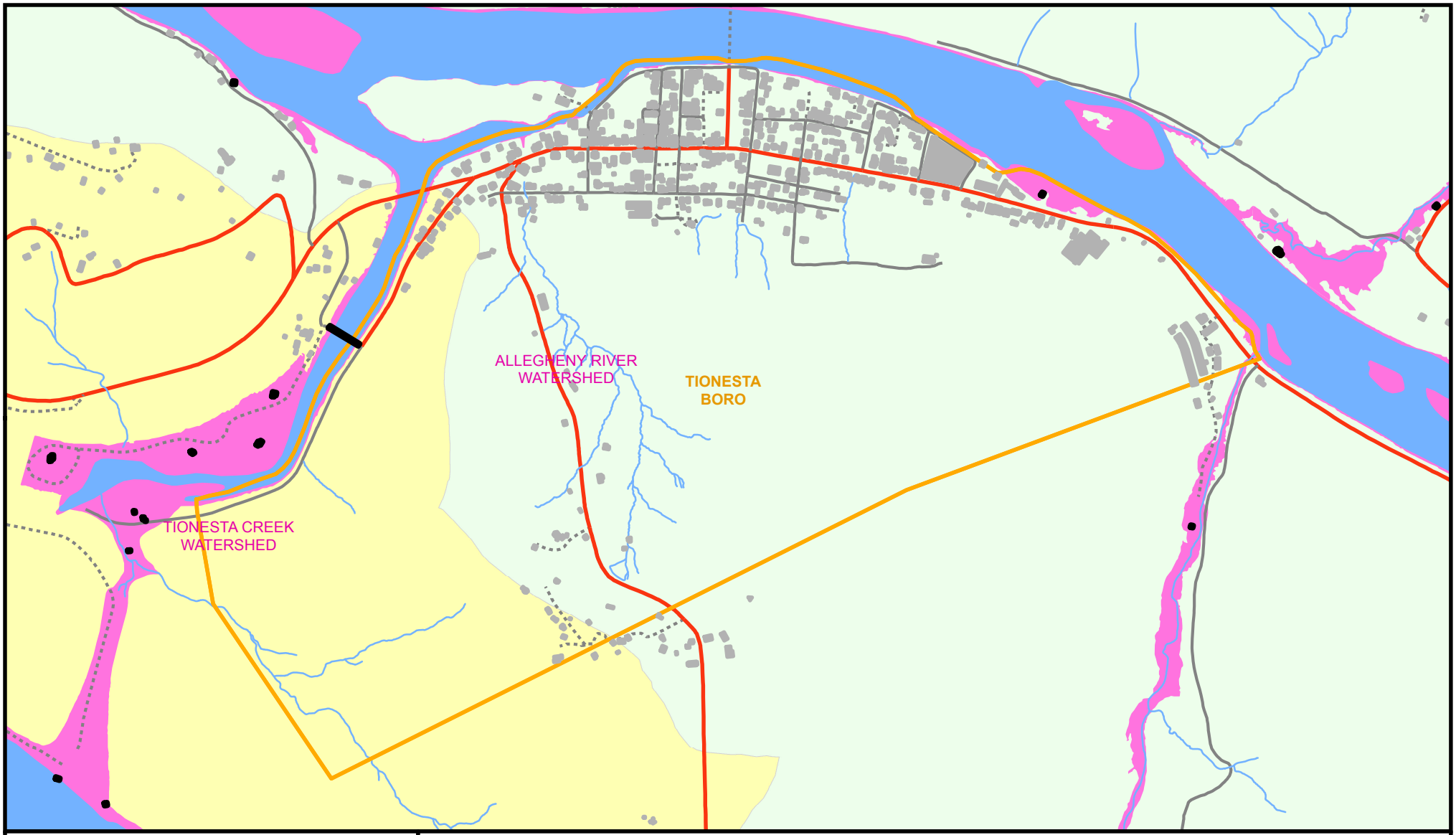
N 1 in = 1.5 miles

Structures in Floodplain - 107 total in municipality
Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Tionesta Borough

N

1 in = 0.25 miles

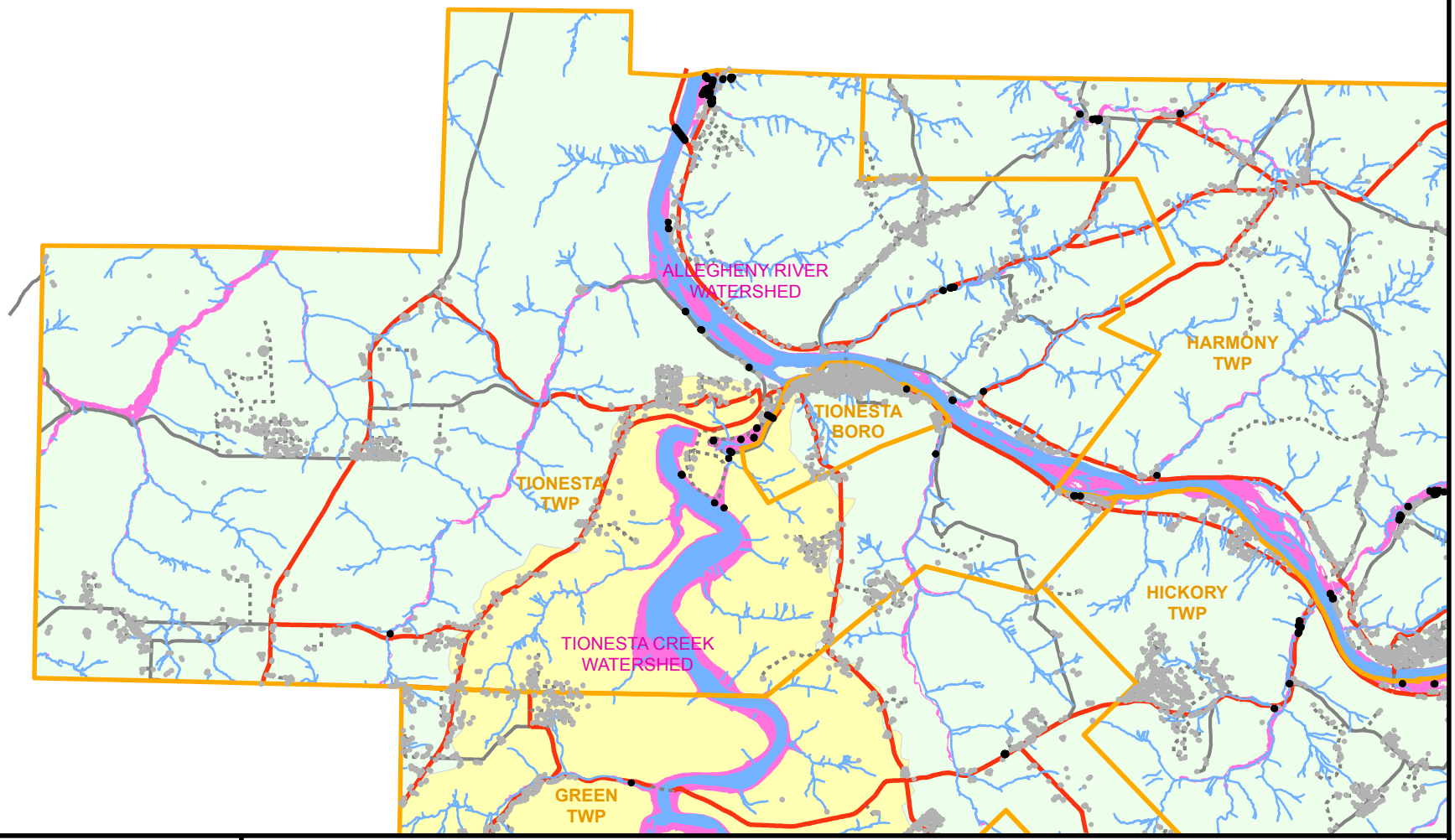
Structures in Floodplain - 2 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Tionesta Township

N

1 in = 1.5 miles

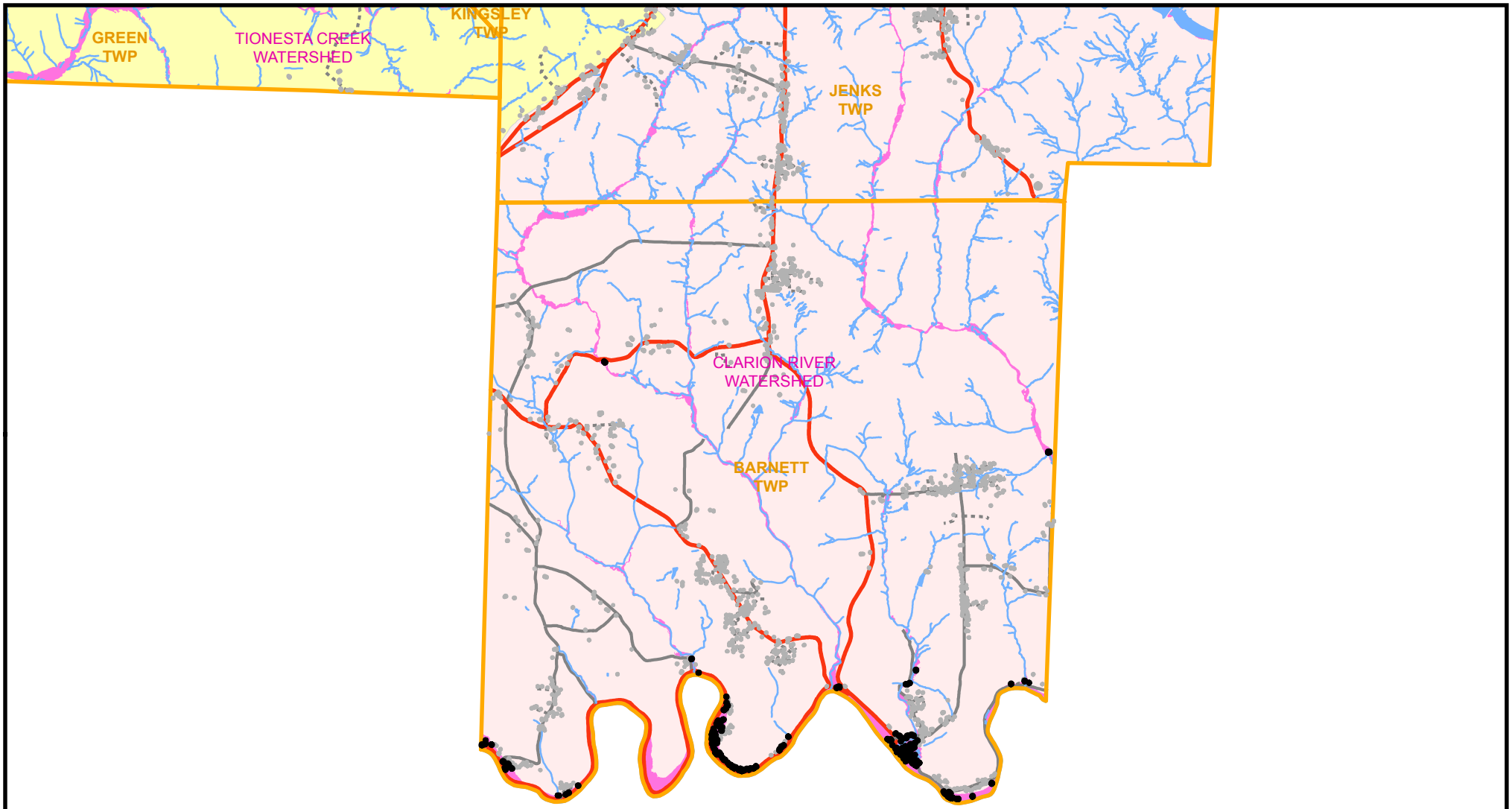
Structures in Floodplain - 51 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Barnett Township

N

1 in = 1.5 miles

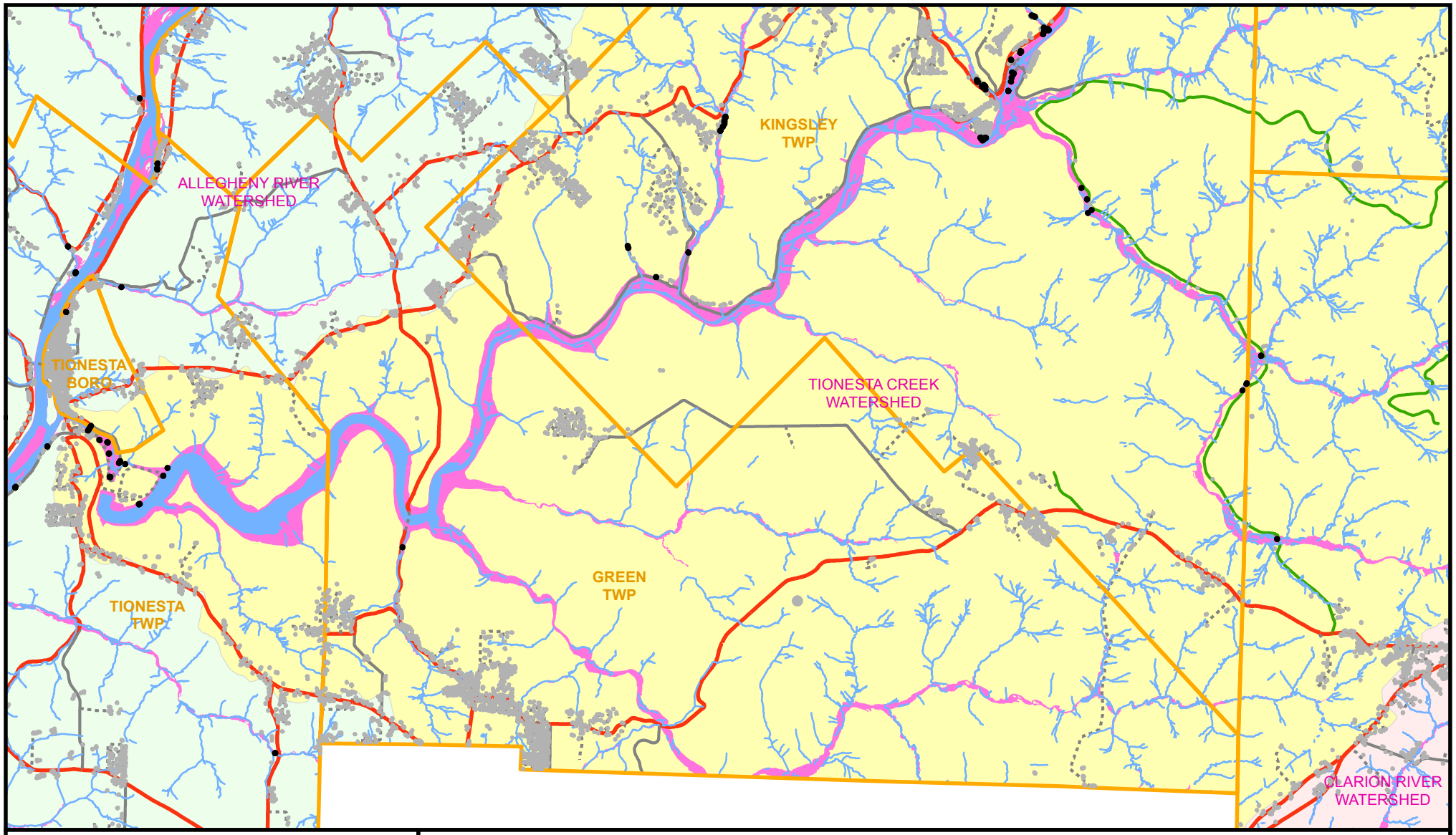
Structures in Floodplain - 175 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Green Township

N

1 in = 1.5 miles

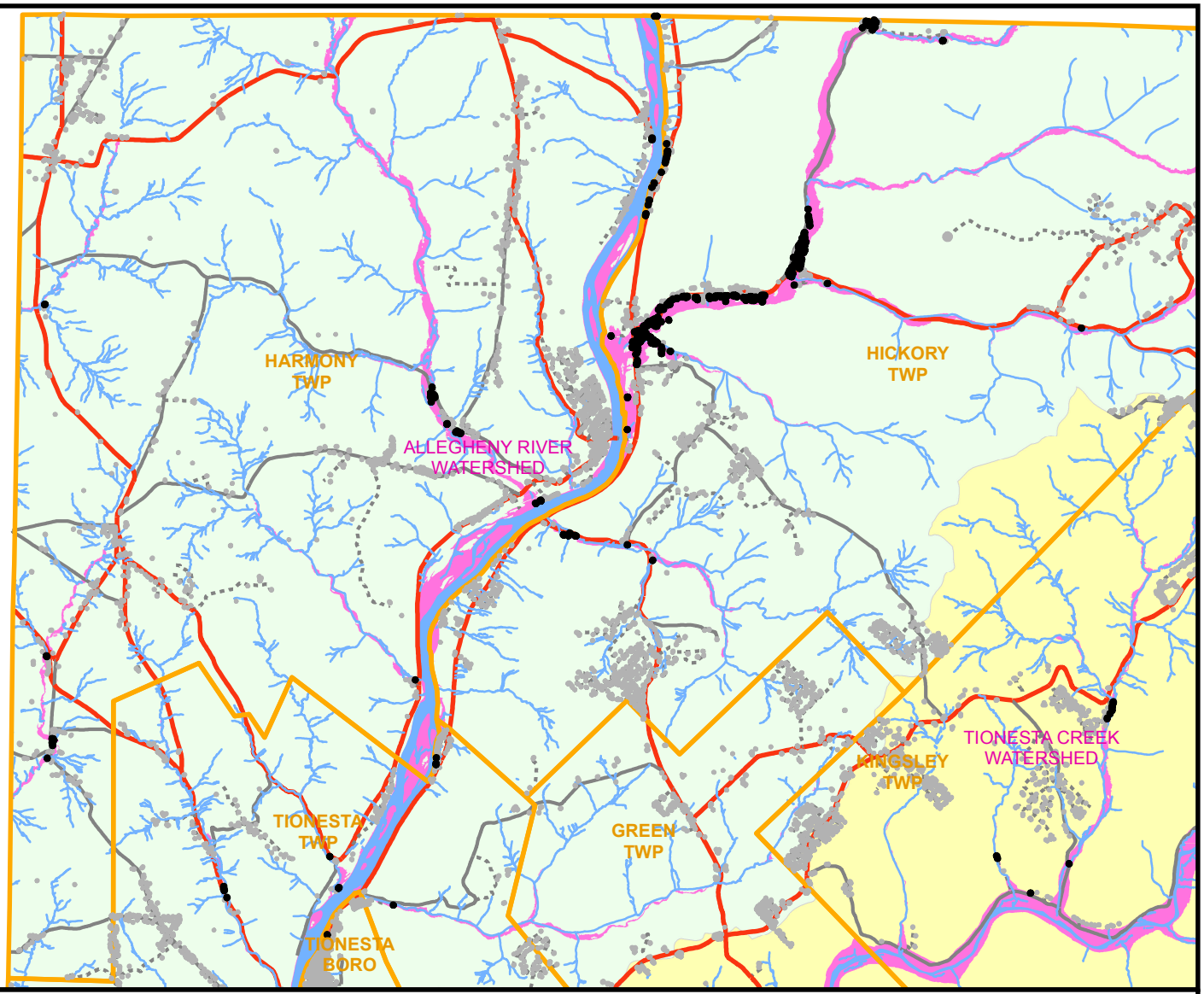
Structures in Floodplain - 1 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Harmony Township

N

1 in = 1.5 miles

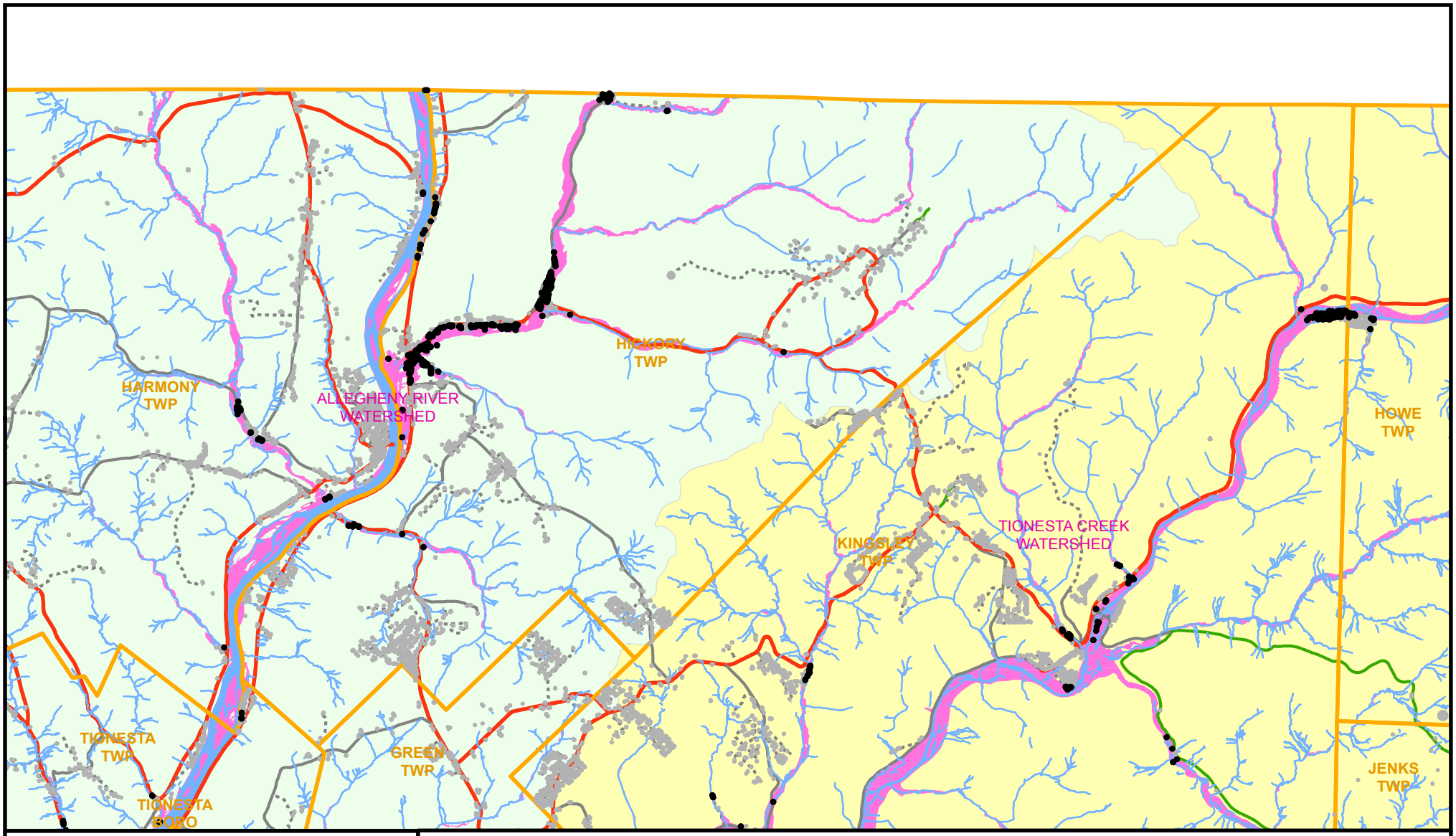
Structures in Floodplain - 30 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Hickory Township

N

1 in = 1.5 miles

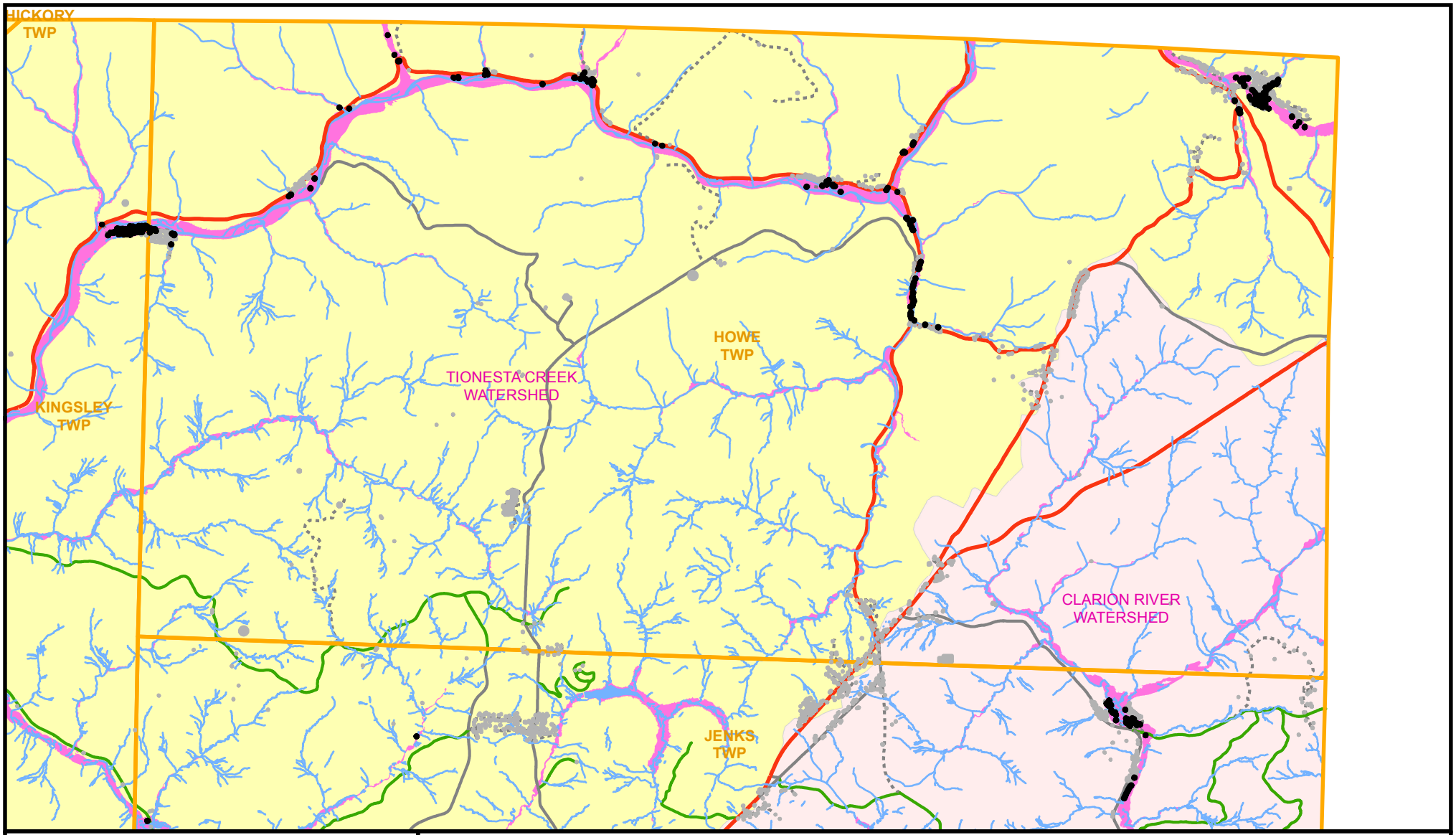
Structures in Floodplain - 227 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Howe Township

N

1 in = 1.5 miles

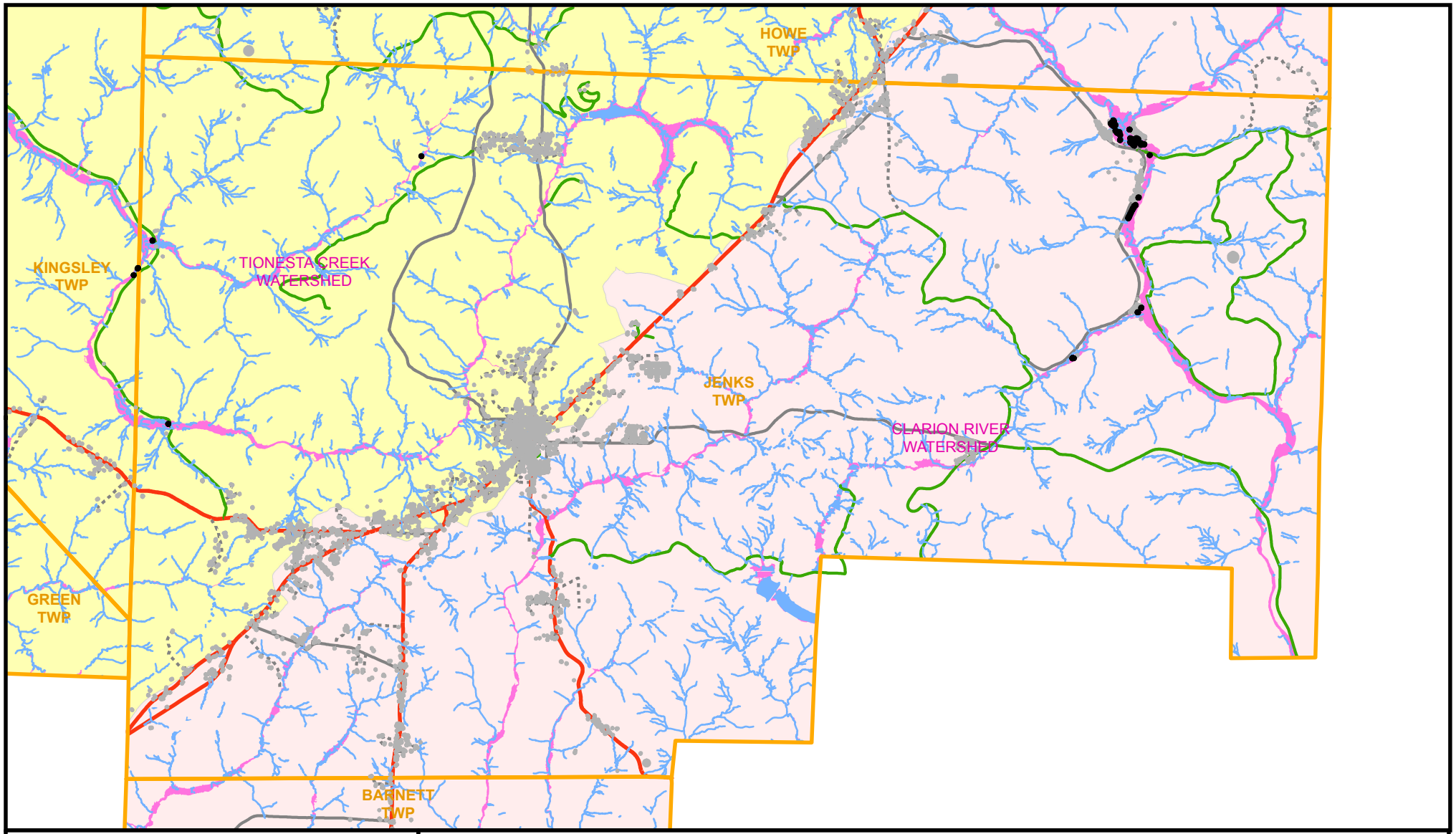
Structures in Floodplain - 159 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Jenks Township

N

1 in = 1.5 miles

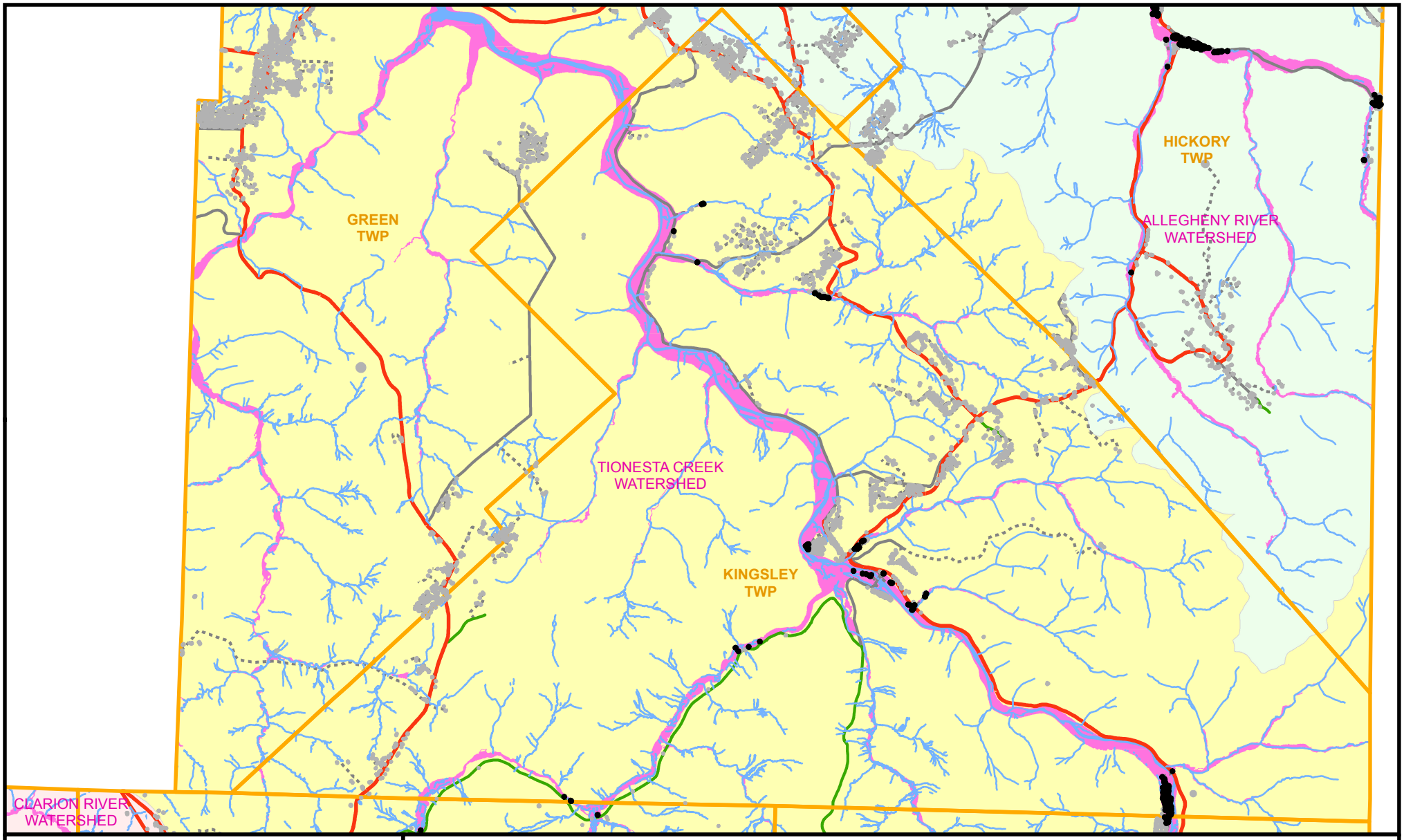
Structures in Floodplain - 47 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Kingsley Township

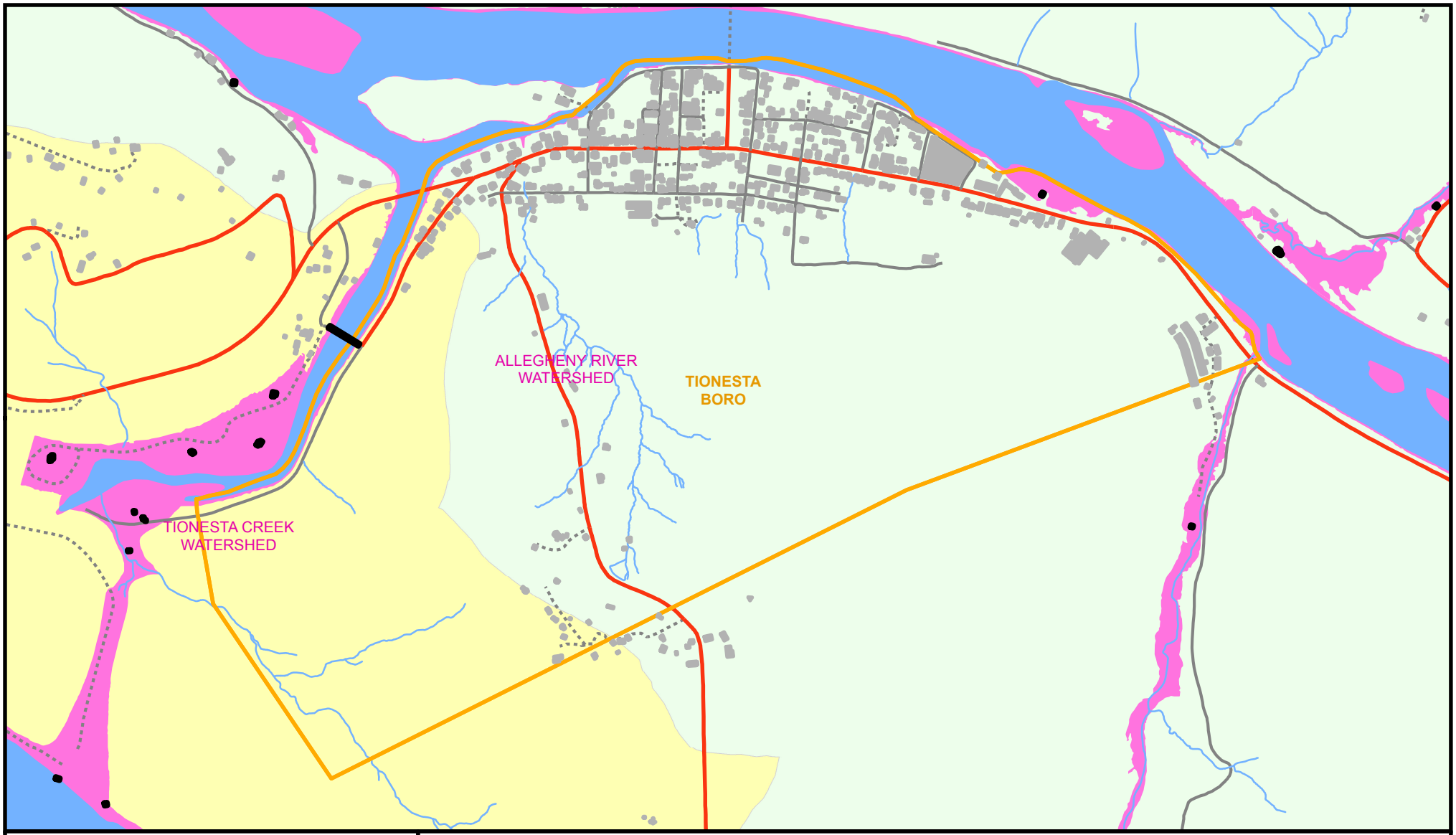
N 1 in = 1.5 miles

Structures in Floodplain - 107 total in municipality
Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Tionesta Borough

N

1 in = 0.25 miles

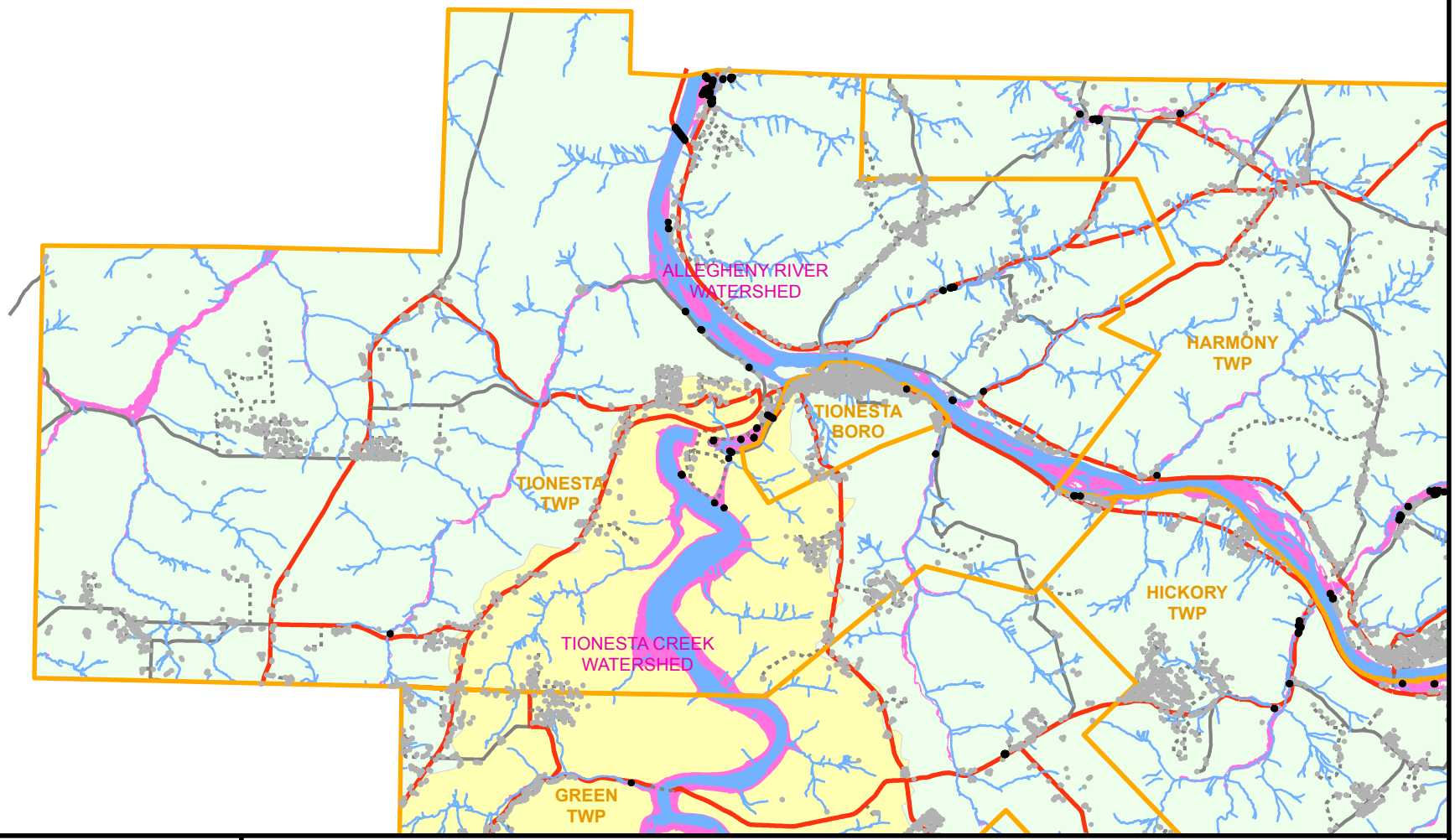
Structures in Floodplain - 2 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County
Structures within 100-year Floodplain

Tionesta Township

N

1 in = 1.5 miles

Structures in Floodplain - 51 total in municipality

Structures outside Floodplain

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

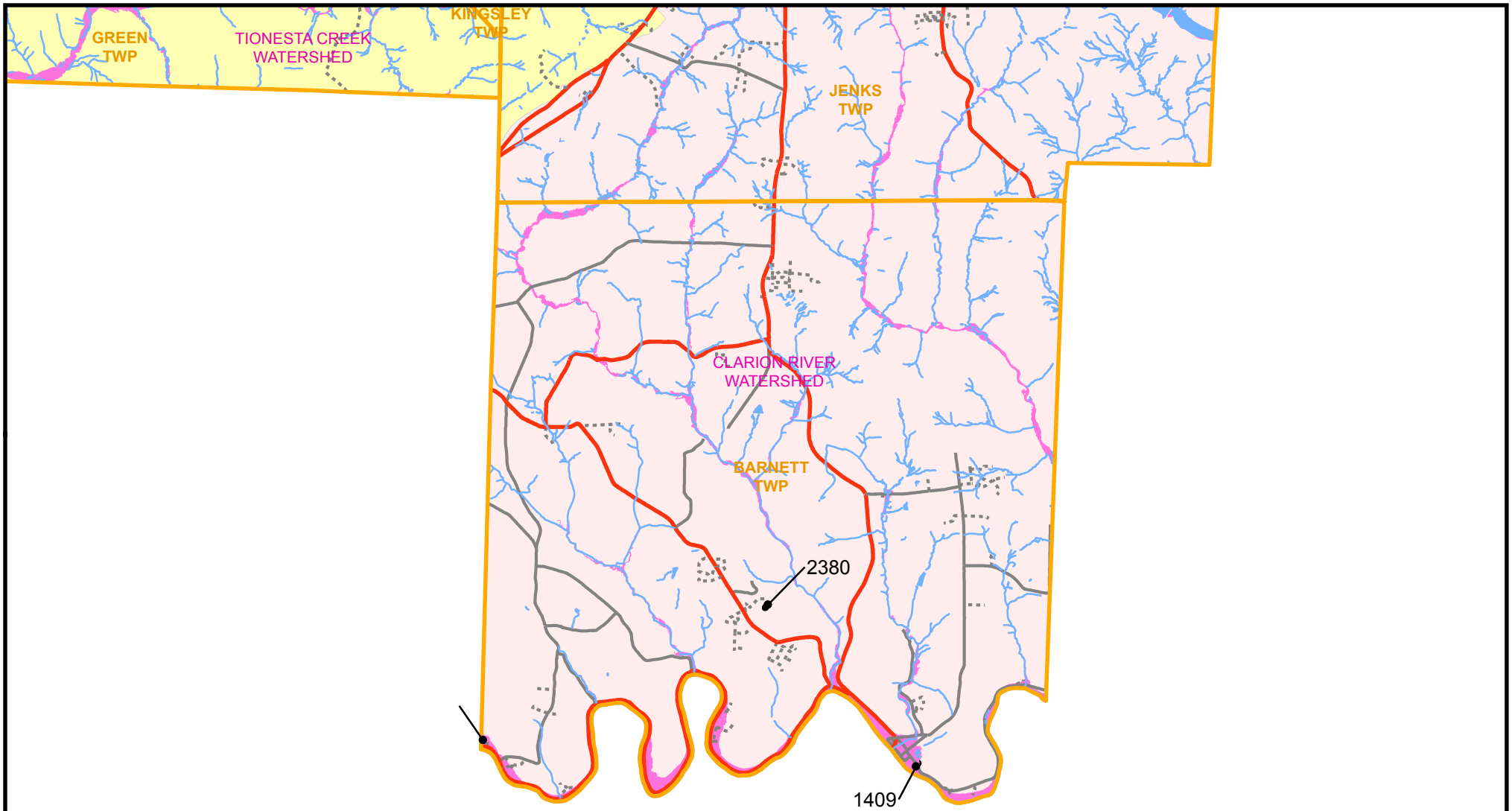
Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek

FOREST COUNTY CRITICAL INFUSTRUCTURE

	DESCRIPTION 1	DESCRIPTION 2	LOCATION
PENNSYLVANIA STATE POLICE STATION			
	PA State Police Station	BGCN Enterprises	Marienville
FIRE / AMBULANCE			
	Tionesta Volunteer Fire Department	Tionesta Volunteer Fire Department	Tionesta
	Marienville Volunteer Fire Department	Marienville Volunteer Fire Department	Marienville
	West Hickory Volunteer Fire Department	West Hickory Volunteer Fire Department	East Hickory
	Tionesta Ambulance Service	Tionesta Ambulance Service	Tionesta
	Marienville Ambulance Service	Clarion Development Corp	Marienville
COUNTY			
	Forest County Courthouse	Forest County	Tionesta
	Forest County Sheriff	Forest County	Tionesta
MUNICIPALITIES			
	Barnett Township Office / Yard	Barnett Township	Clarington
	Green Township Office / Yard	Green Township	Tionesta
	Harmony Twp. Community Center / Office	Harmony Township	West Hickory
	Harmony Twp. Garage / Yard	Harmony Township	Tionesta
	Hickory Twp. Community Center / Office	Hickory Township	Endeavor
	Hickory Township Garage / Yard	Hickory Township	Endeavor
	Howe Township Office	Howe Township	Lynch
	Howe Township Garage / Yard	Howe Township	Pigeon
	Jenks Township Office / Garage / Yard	Jenks Township	Marienville
	Kingsley Township Office / Garage / Yard	Kingsley Township	Whig Hill
	Tionesta Township Office / Garage / Yard	Tionesta Township	Tionesta
	Tionesta Borough Office	Tionesta Borough	Tionesta
	Tionesta Borough Garage	Tionesta Borough	Tionesta
	Tionesta Borough Water Reservoir	Municipal Authority /Tionesta Borough	Tionesta
	Tionesta Borough Sewage Facility	Municipal Authority /Tionesta Borough	Tionesta
	Jenks Township Sewage Facility	Jenks Township	Marienville
	MACA Community Center	Marienville Area Civic Association	Marienville
STATE CORRECTIONAL FACILITY			
	SCI - Forest / Correctional Facility	Commonwealth of Pennsylvania	Marienville
GOVERNMENT FACILITIES			
	PA Department of Transportation	Tionesta Maintenance Office / Yard	Tionesta
	PA Department of Transportation	Hickory Maintenance Yard	East Hickory
	PA Department of Transportation	Marienville Maintenance Yard	Marienville
	US Forest Service	Marienville Ranger Station	Marienville
US ARMY CORPS OF ENGINEERS			
	Tionesta Dam / Lake	US Army Corps	Tionesta
SCHOOLS			
	West Forest Elementary / High School	Forest Area School District	Tionesta
	East Forest Elementary / High School	Forest Area School District	Marienville
	Cornell Abraxas School / Housing	Abraxas Youth & Family Services	Marienville
DAY CARE & SENIOR LIVING			
	Snyder Memorial Nursing Home	D & M Realty LTD	Marienville
	Tionesta Manor (Senior Housing)	Tionesta Manor LLC	Tionesta

FOREST COUNTY CRITICAL INFUSTRUCTURE

	DESCRIPTION 1	DESCRIPTION 2	LOCATION
UTILITIES			
	First Energy Service Co.	Sub-station	East Hickory
	First Energy Service Co.	Sub-station	Tionesta
	Central Electric CO-OP	Sub-station	Tionesta
	Warren Electric Co	Sub-station	Whig Hill
	Verizon	Building	Endeavor
	Verizon	Building	Marienville
	Verizon	Building	Tionesta
	Pennsylvania - Aqua America Inc.	Aqua Water Treatment Plant	Marienville
NATURAL GAS COMPRESSOR SITES			
	Tennessee Gas Pipeline Compressor Station	Kinder Morgan / El Paso	Pigeon
	Catalyst Compressor Station	Catalyst Energy, Inc.	Pigeon
	PA General Energy Compressor / Yard	PA General Energy	Dead Mans Corner
	PA General Energy Minor Compressor	PA General Energy	Salmon Creek
	PA General Energy Minor Compressor	PA General Energy	Salmon Creek
	PA General Energy Minor Compressor	PA General Energy	Salmon Creek
	PA General Energy Minor Compressor	PA General Energy	Hastings
	Queen Station Compressor Site	National Fuel Gas Supply Corp.	Queen Station
UNCONVENTIONAL WELL SITES			
	PA General Energy	1 well under production	Guitonville
	Hunt Marcellus Operating Co	2 wells	Yellow Hammer
	PA General Energy	1 well under production	Salmon Creek
	PA General Energy	1 well	Salmon Creek
	SWEPI LP (SHELL)	2 wells	Lynch
	Seneca Resources Corp.	2 wells	Duhring
	SWEPI LP (SHELL)	2 wells	Marienville
	Hunt Marcellus Operating Co	1 well, vertical (Inactive)	Whig Hill
	SWEPI LP (SHELL)	2 wells	Mayburg
	Seneca Resources Corp.	1 well, vertical (Inactive)	Red Brush
	Seneca Resources Corp.	3 wells, 1 under production	Red Brush
COMMUNICATION TOWERS			
	Comm. of PA -PSP	PA. State Police	Guitonville
	PA RSA 1 Limited Partnership	Verizon Wireless	Marienville
	Tenn. Gas/Kinger Morgan-TCP	T. Gas	Marienville
	Forest County 911 Tower	Fire, EMS,Sheriff,Army Corps,Sting Comm.	Tionesta
	Forest County	Fire, EMS,Sheriff, AT & T	Marienville
	Comm. of PA - Game Comm.	Game Commission	Guitonville
	American Towers, LLC	AT & T Wireless	Smokey Hill
	PA RSA 1 Limited Partnership	Verizon Wireless	Tionesta
	Mobile Communication Service	PA General Energy	
	Liberty Towers, LLC	**Empty**	Hunter Station
	Liberty Towers, LLC	**Empty**	West Hickory
	Family Life Ministries	Family Life Radio	Tionesta
	PA RSA 1 Limited Partnership	Verizon Wireless	West Hickory
	SBA Towers	**Empty**	Newmansville
	SBA Towers	**Empty**	Hottelville



Forest County Critical Infrastructure

Barnett Township

N

1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

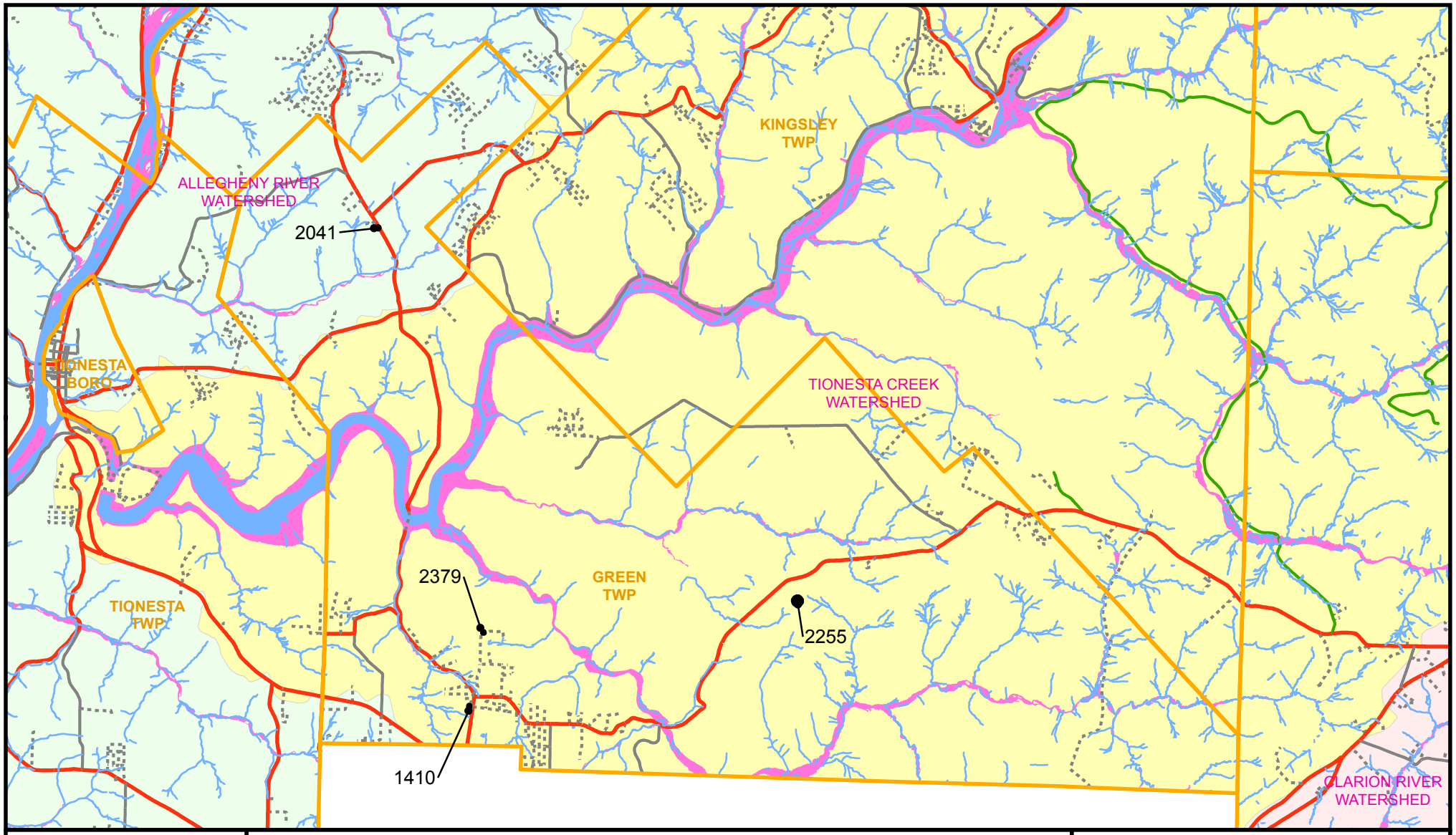
1409 Barnett Township Office/Yard

2380 PA RSA 1 Lmtd Partnership

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Green Township

1 in = 1.5 miles

N

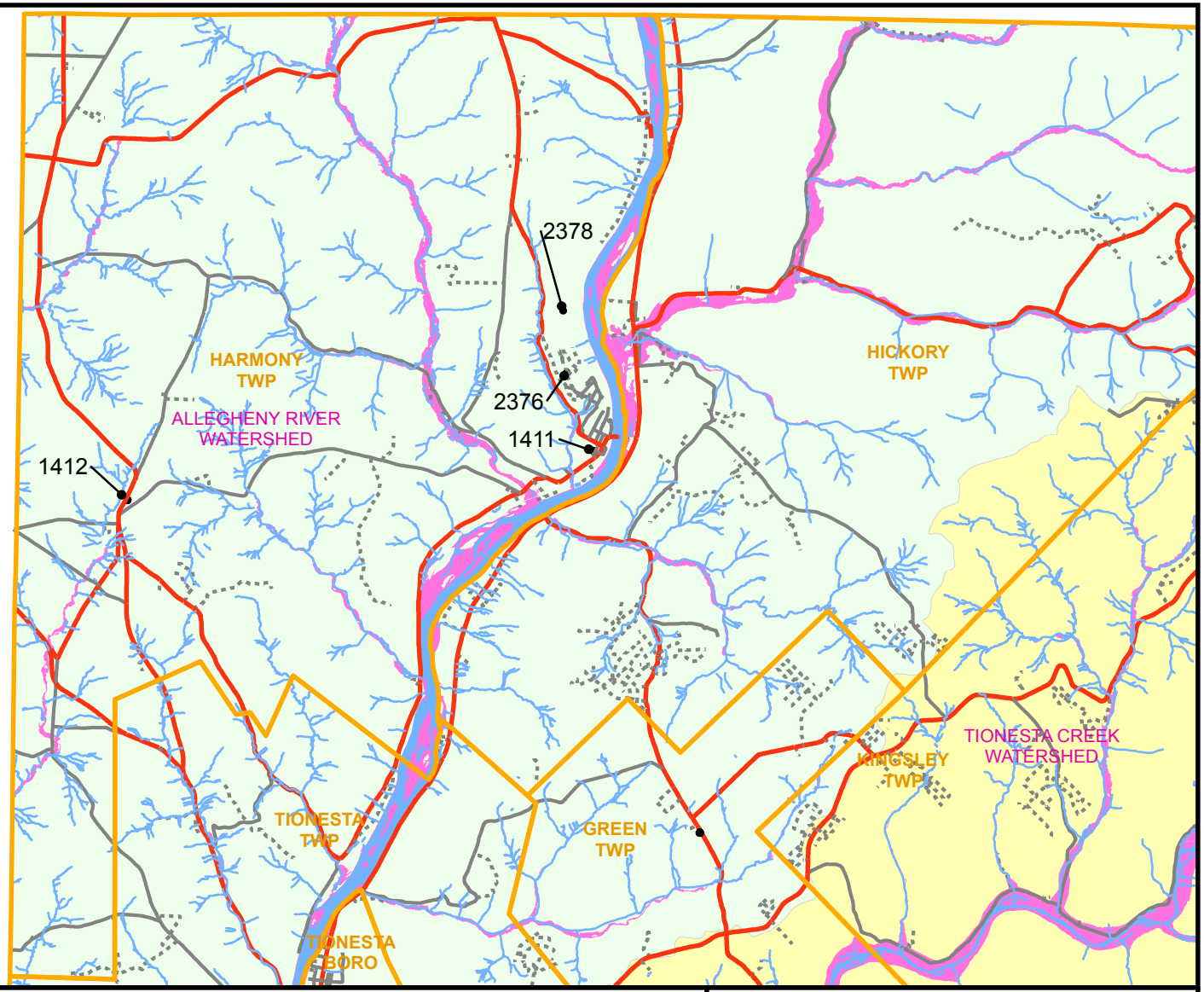
Critical Infrastructure Facility Number & Description

- 1410 Green Township Office / Yard
- 2041 Central Electric CO-OP Sub-station
- 2255 PA General Energy
- 2379 SBA Towers

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Harmony Township

1 in = 1.5 miles

N

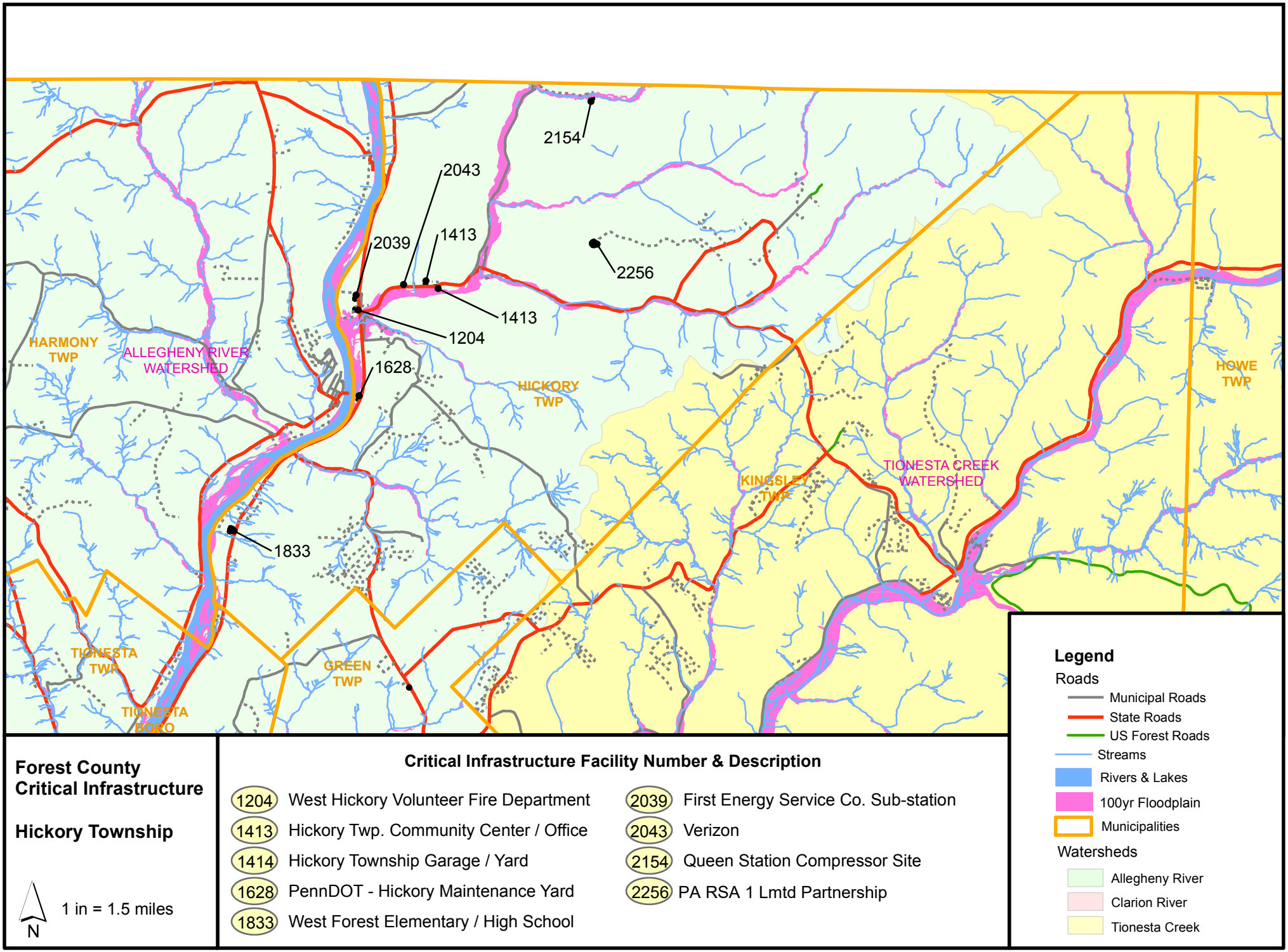
Critical Infrastructure Facility Number & Description

- 1411 Harmony Twp. Community Center / Office
- 1412 Harmony Twp. Garage / Yard
- 2376 CIG Comp Tower LLC
- 2378 PA RSA 1 Limited Partnership

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

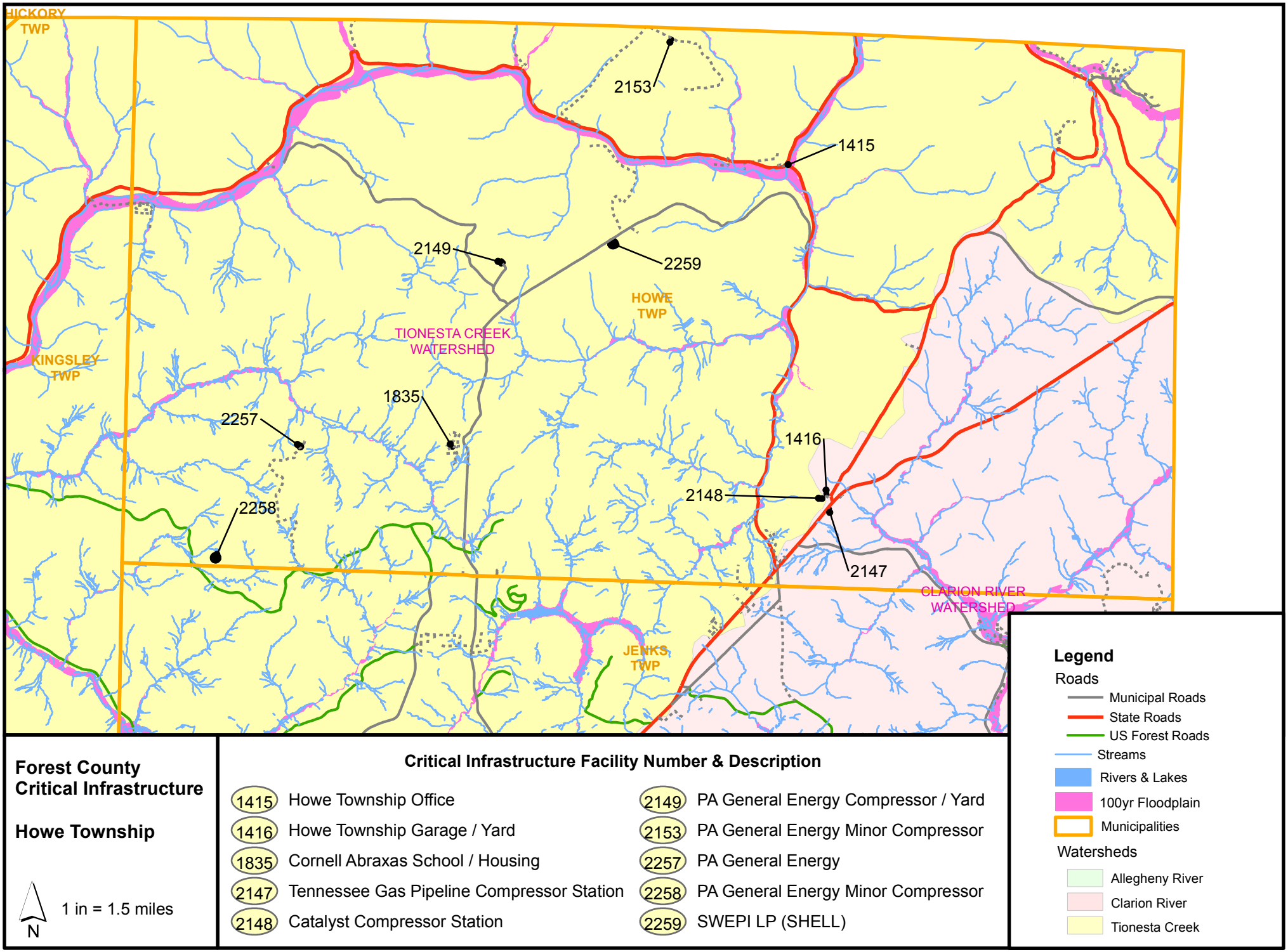
Hickory Township

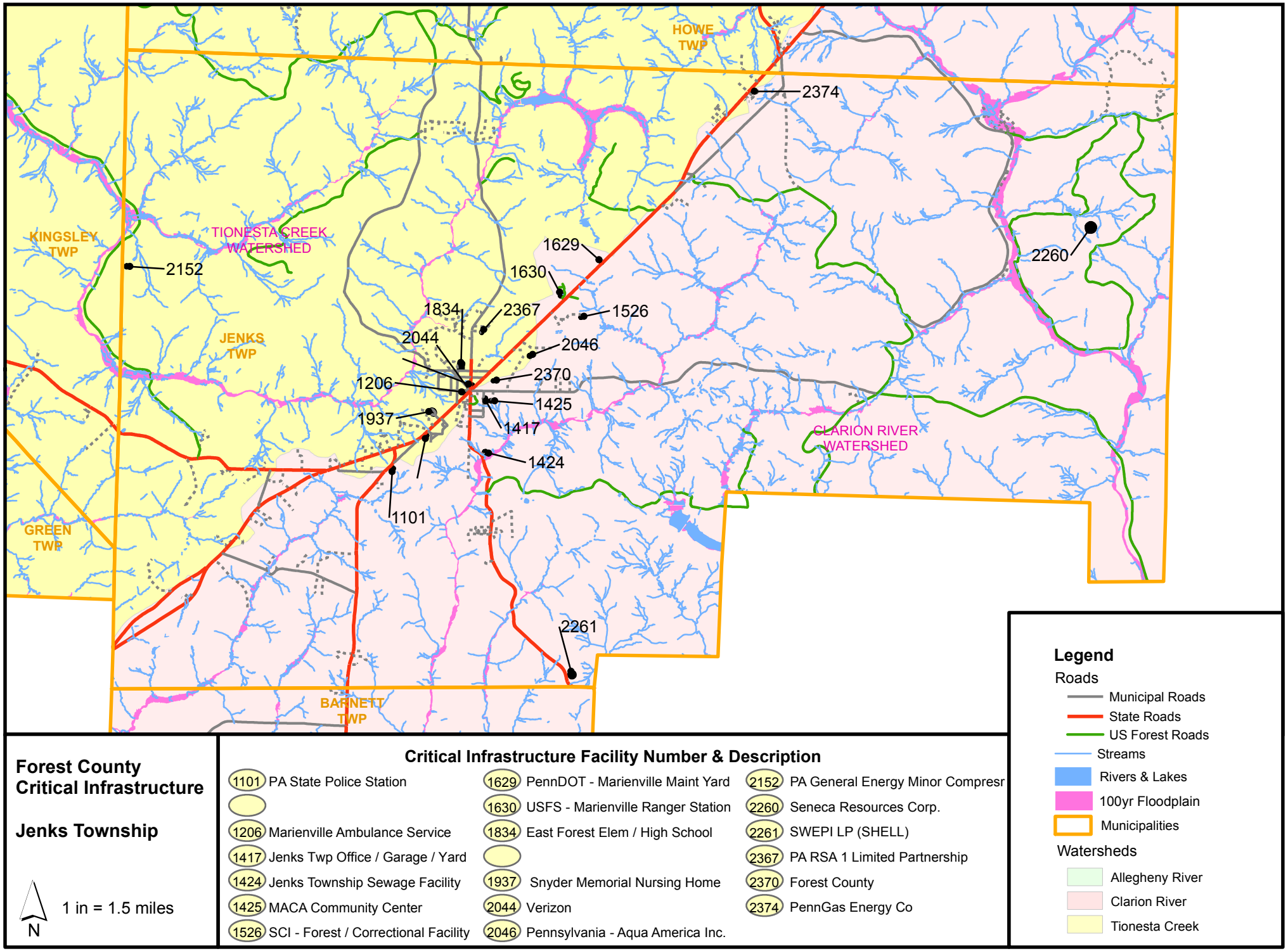
N

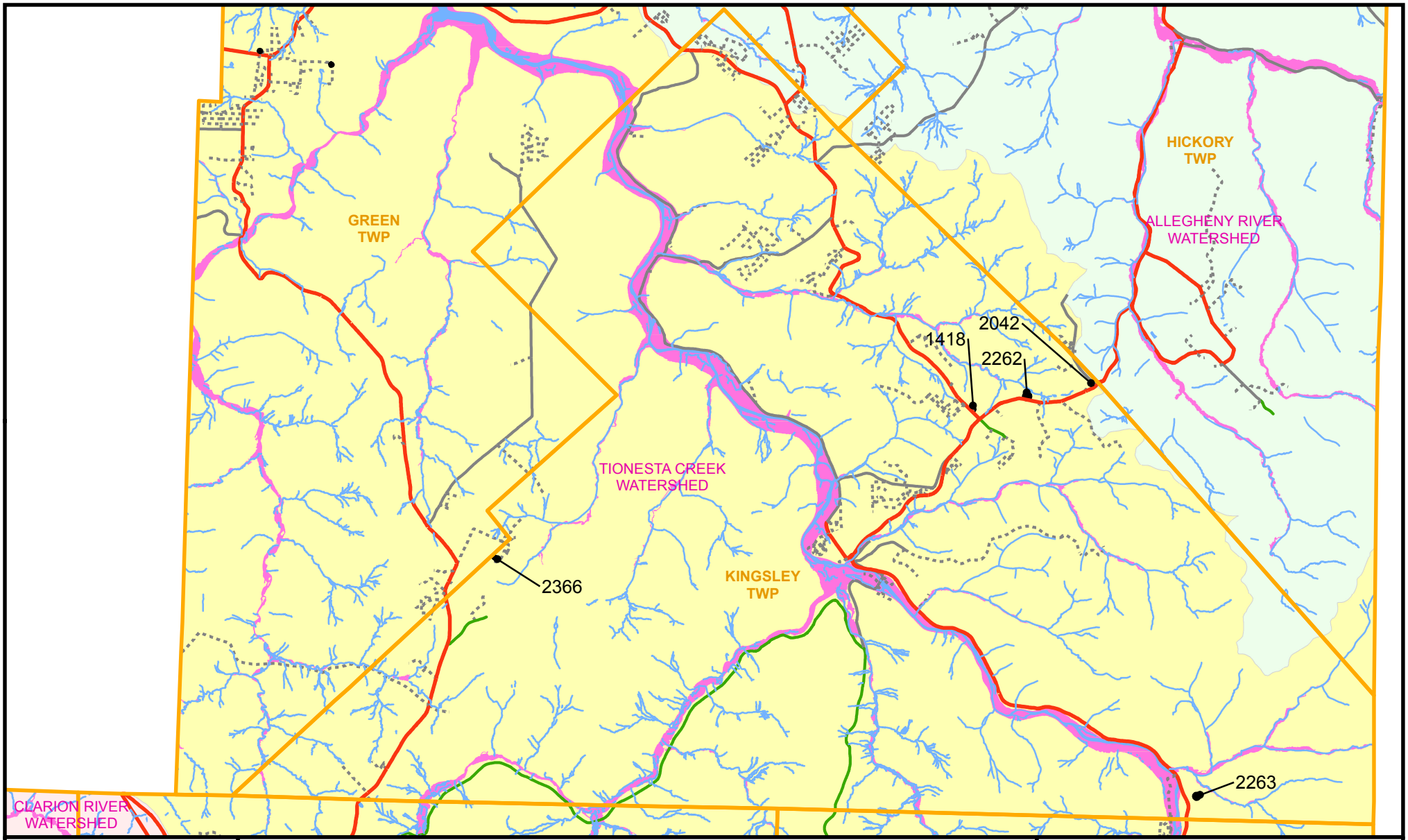
1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

- 1204 West Hickory Volunteer Fire Department
- 1413 Hickory Twp. Community Center / Office
- 1414 Hickory Township Garage / Yard
- 1628 PennDOT - Hickory Maintenance Yard
- 1833 West Forest Elementary / High School
- 2039 First Energy Service Co. Sub-station
- 2043 Verizon
- 2154 Queen Station Compressor Site
- 2256 PA RSA 1 Lmtd Partnership


HICKORY TWP
2153
1415
2149
2259
HOWE TWP
TIONESTA CREEK WATERSHED
KINGSLEY TWP
1835
2257
1416
2148
2258
2147
CLARION RIVER WATERSHED
JENKS TWP
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
100yr Floodplain
Municipalities
Watersheds
Allegheny River
Clarion River
Tionesta Creek
Forest County
Critical Infrastructure
Howe Township
1 in = 1.5 miles
N
Critical Infrastructure Facility Number & Description
1415 Howe Township Office
1416 Howe Township Garage / Yard
1835 Cornell Abraxas School / Housing
2147 Tennessee Gas Pipeline Compressor Station
2148 Catalyst Compressor Station
2149 PA General Energy Compressor / Yard
2153 PA General Energy Minor Compressor
2257 PA General Energy
2258 PA General Energy Minor Compressor
2259 SWEPI LP (SHELL)


HOWE TWP
KINGSLEY TWP
TIONESTA CREEK WATERSHED
JENKS TWP
CLARION RIVER WATERSHED
GREEN TWP
BARNETT TWP
2374
2260
2152
1629
1630
1526
1834
2367
2044
2046
2370
1206
1425
1937
1417
1424
1101
2261
Forest County
Critical Infrastructure
Jenks Township
1 in = 1.5 miles
N
Critical Infrastructure Facility Number & Description
1101 PA State Police Station
1206 Marienville Ambulance Service
1417 Jenks Twp Office / Garage / Yard
1424 Jenks Township Sewage Facility
1425 MACA Community Center
1526 SCI - Forest / Correctional Facility
1629 PennDOT - Marienville Maint Yard
1630 USFS - Marienville Ranger Station
1834 East Forest Elem / High School
1937 Snyder Memorial Nursing Home
2044 Verizon
2046 Pennsylvania - Aqua America Inc.
2152 PA General Energy Minor Compresr
2260 Seneca Resources Corp.
2261 SWEPI LP (SHELL)
2367 PA RSA 1 Limited Partnership
2370 Forest County
2374 PennGas Energy Co
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
100yr Floodplain
Municipalities
Watersheds
Allegheny River
Clarion River
Tionesta Creek



Forest County Critical Infrastructure

Kingsley Township

N 1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

- 1418 Kingsley Township Office / Garage / Yard
- 2042 Warren Electric Co Sub-station
- 2262 PA RSA 1 Lmtd Partnership
- 2263 SWEPI LP (SHELL)
- 2366 PA RSA 1 Lmtd Partnership

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

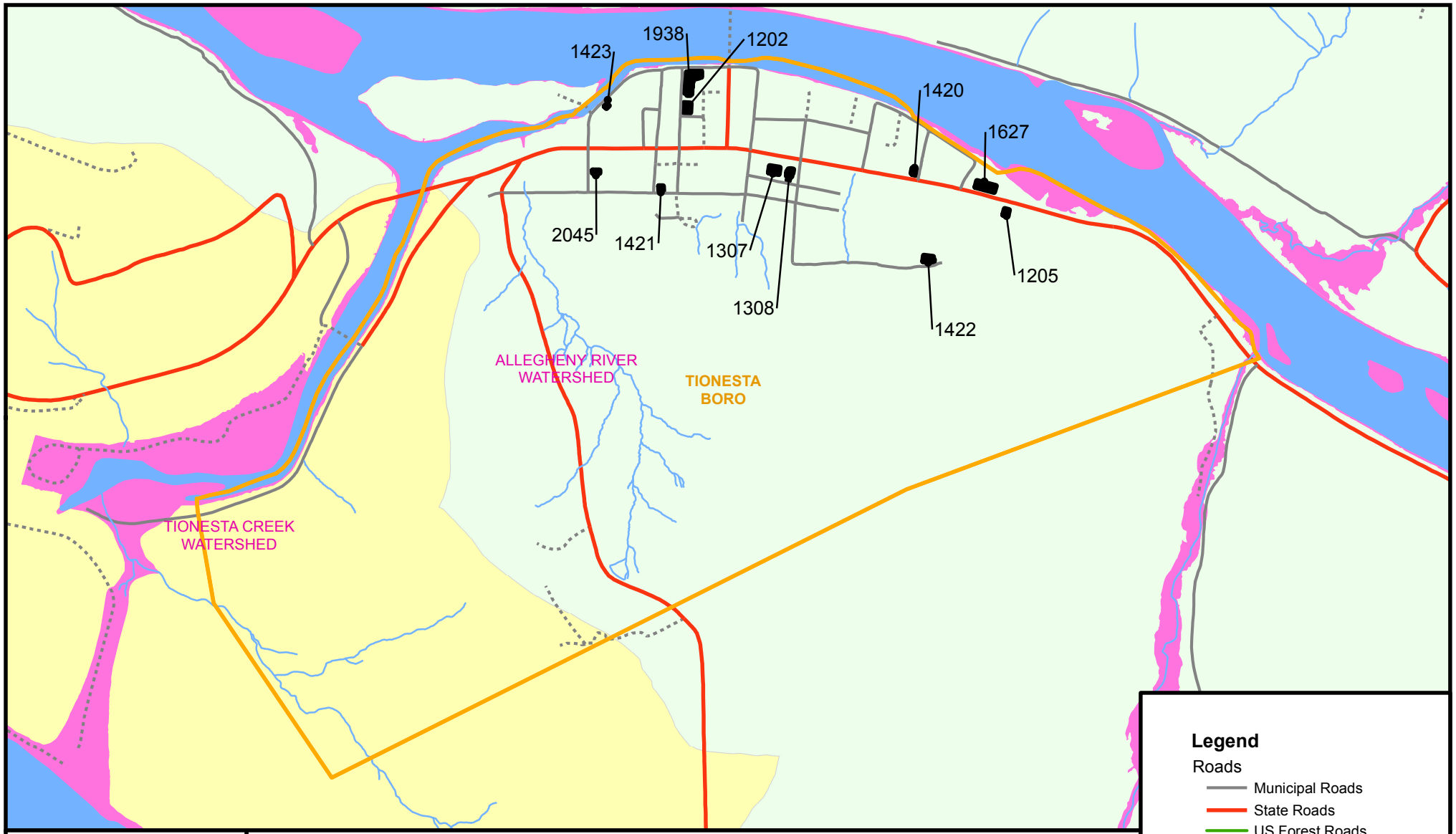
Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Tionesta Borough

N 1 in = 0.25 miles

Critical Infrastructure Facility Number & Description

- 1202 Tionesta Volunteer Fire Department
- 1205 Tionesta Ambulance Service
- 1307 Forest County Courthouse
- 1308 Forest County Sheriff
- 1420 Tionesta Borough Office
- 1421 Tionesta Borough Garage
- 1422 Tionesta Borough Water Reservoir
- 1423 Tionesta Borough Sewage Facility
- 1627 PennDOT - Tionesta Maint Office / Yard
- 1938 Tionesta Manor (Senior Housing)
- 2045 Verizon

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

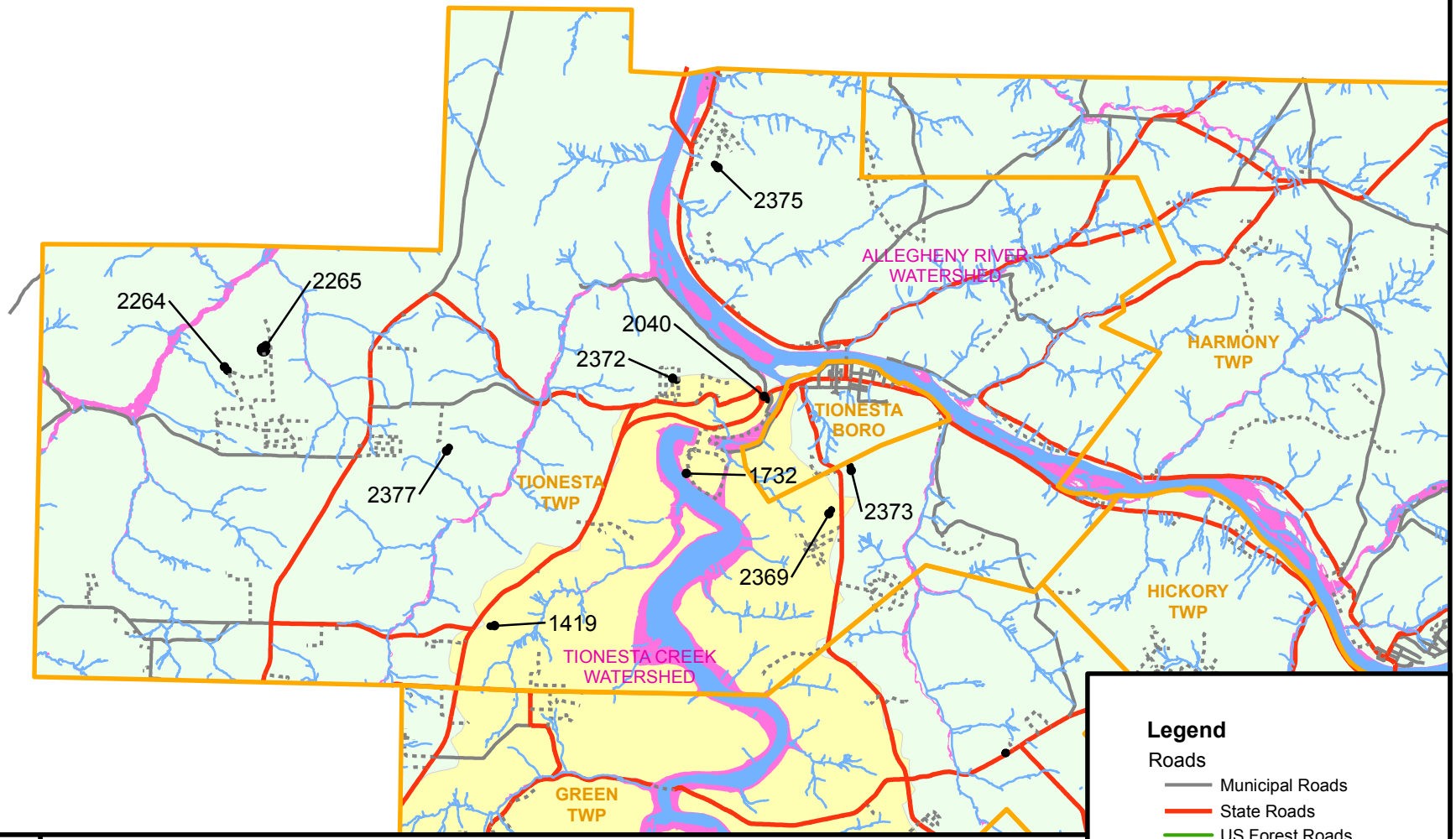
Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Tionesta Township

N

1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

- 1419 Tionesta Township Office / Garage / Yard
- 1732 Tionesta Dam / Lake
- 2040 First Energy Service Co. Sub-station
- 2264 Seneca Resources Corp.
- 2265 Seneca Resources Corp.
- 2369 Forest County 911 Tower
- 2372 American Towers
- 2373 PA RSA 1 Limited Partnership
- 2375 CIG Comp Tower LLC
- 2377 Family Life Ministries

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

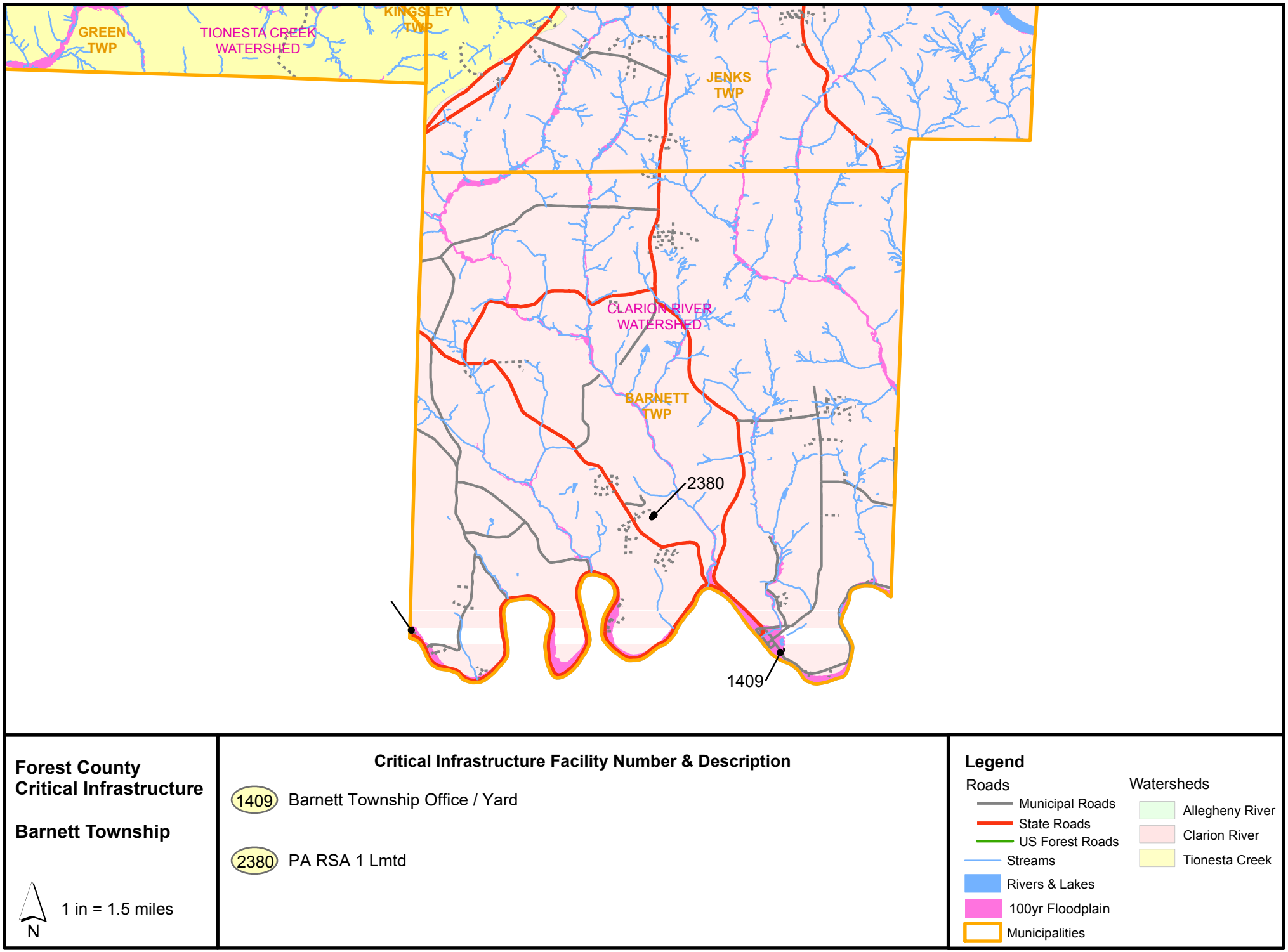
Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Barnett Township

N

1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

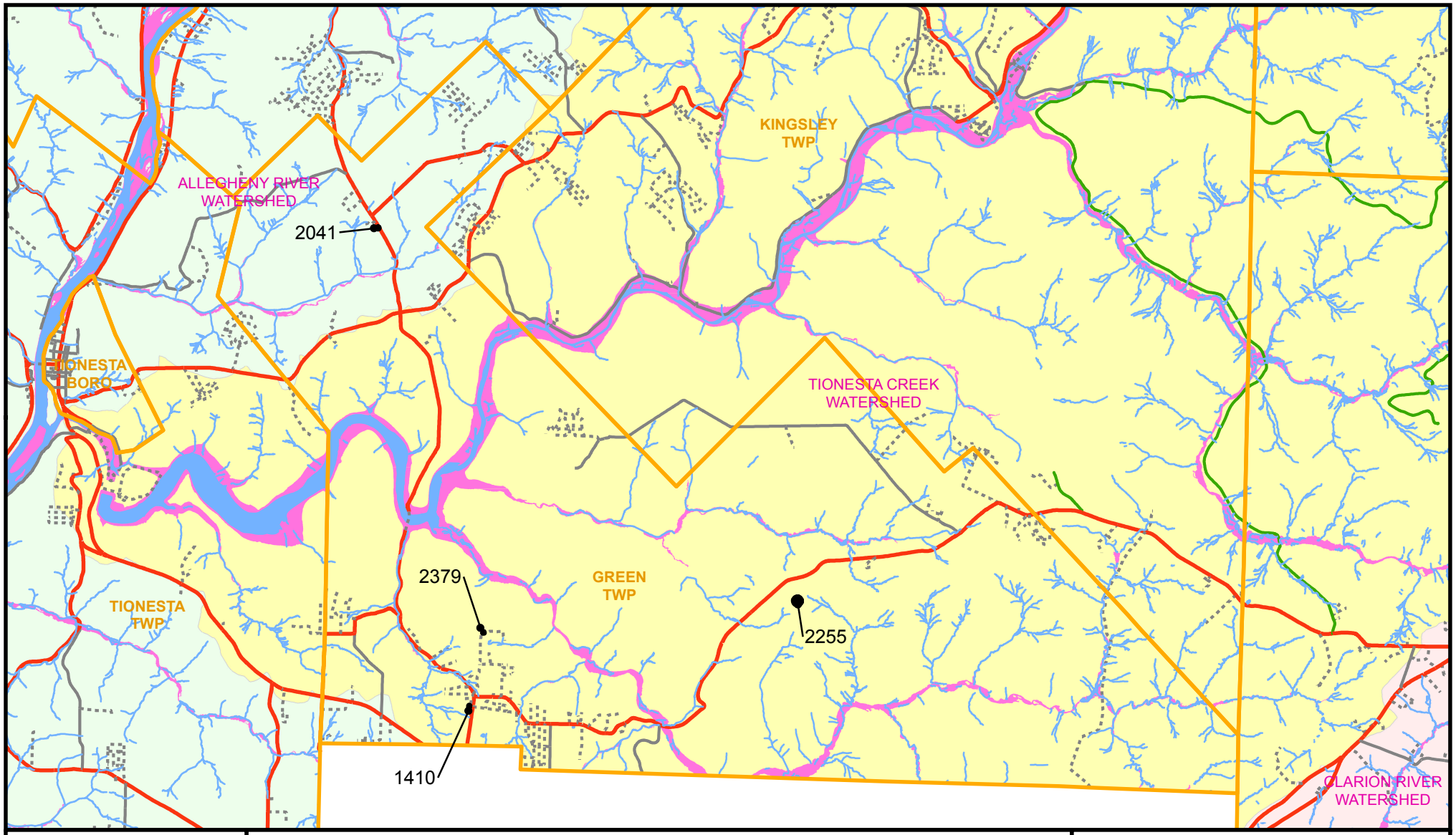
1409 Barnett Township Office / Yard

2380 PA RSA 1 Lmtd

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Green Township

1 in = 1.5 miles

N

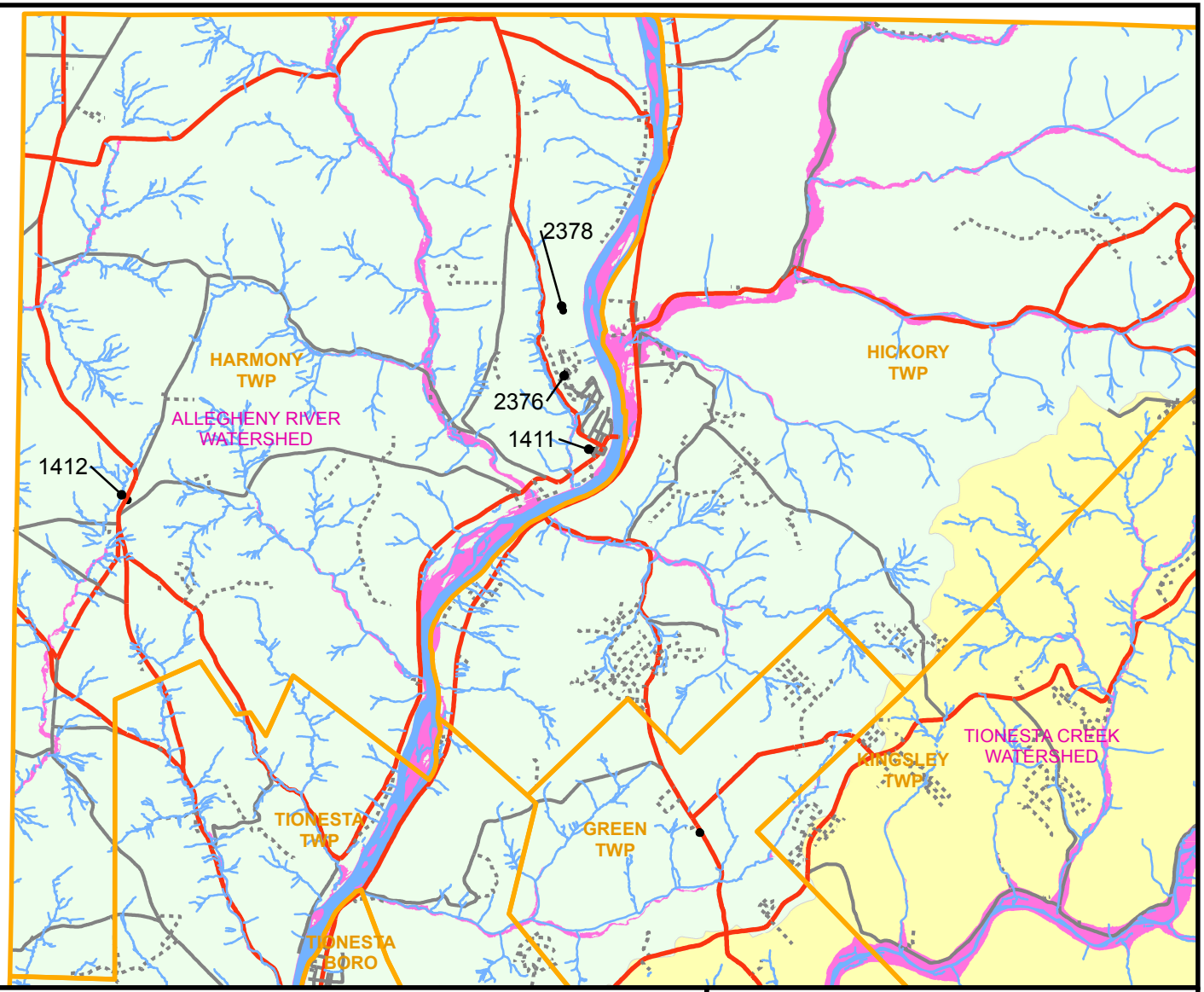
Critical Infrastructure Facility Number & Description

- 1410 Green Township Office / Yard
- 2041 Central Electric CO-OP Sub-station
- 2255 PA General Energy
- 2379 SBA Towers

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Harmony Township

1 in = 1.5 miles

N

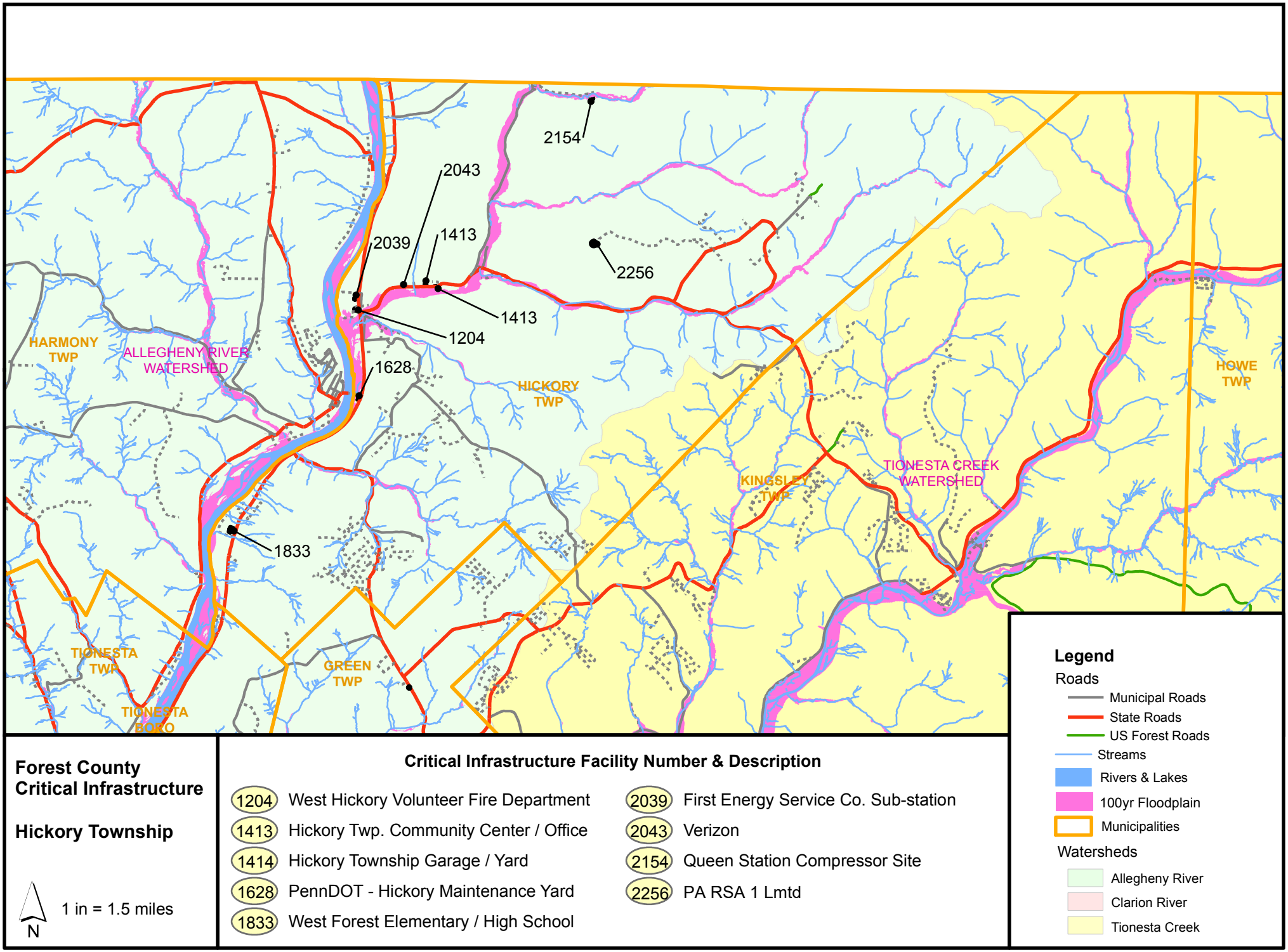
Critical Infrastructure Facility Number & Description

- 1411 Harmony Twp. Community Center / Office
- 1412 Harmony Twp. Garage / Yard
- 2376 CIG Comp Tower LLC
- 2378 PA RSA 1 Limited Partnership

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads
- Streams
- Rivers & Lakes
- 100yr Floodplain
- Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

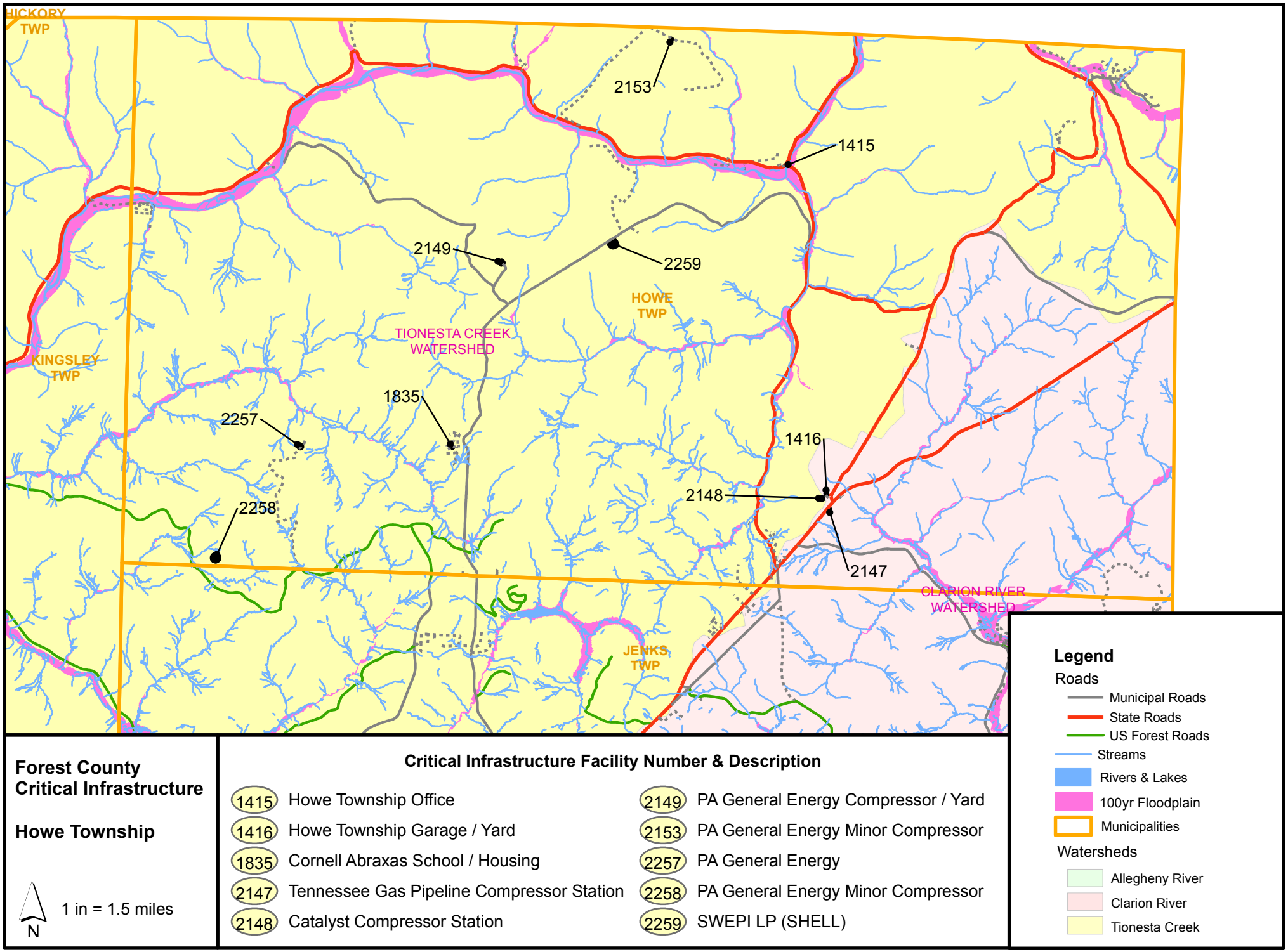
Hickory Township

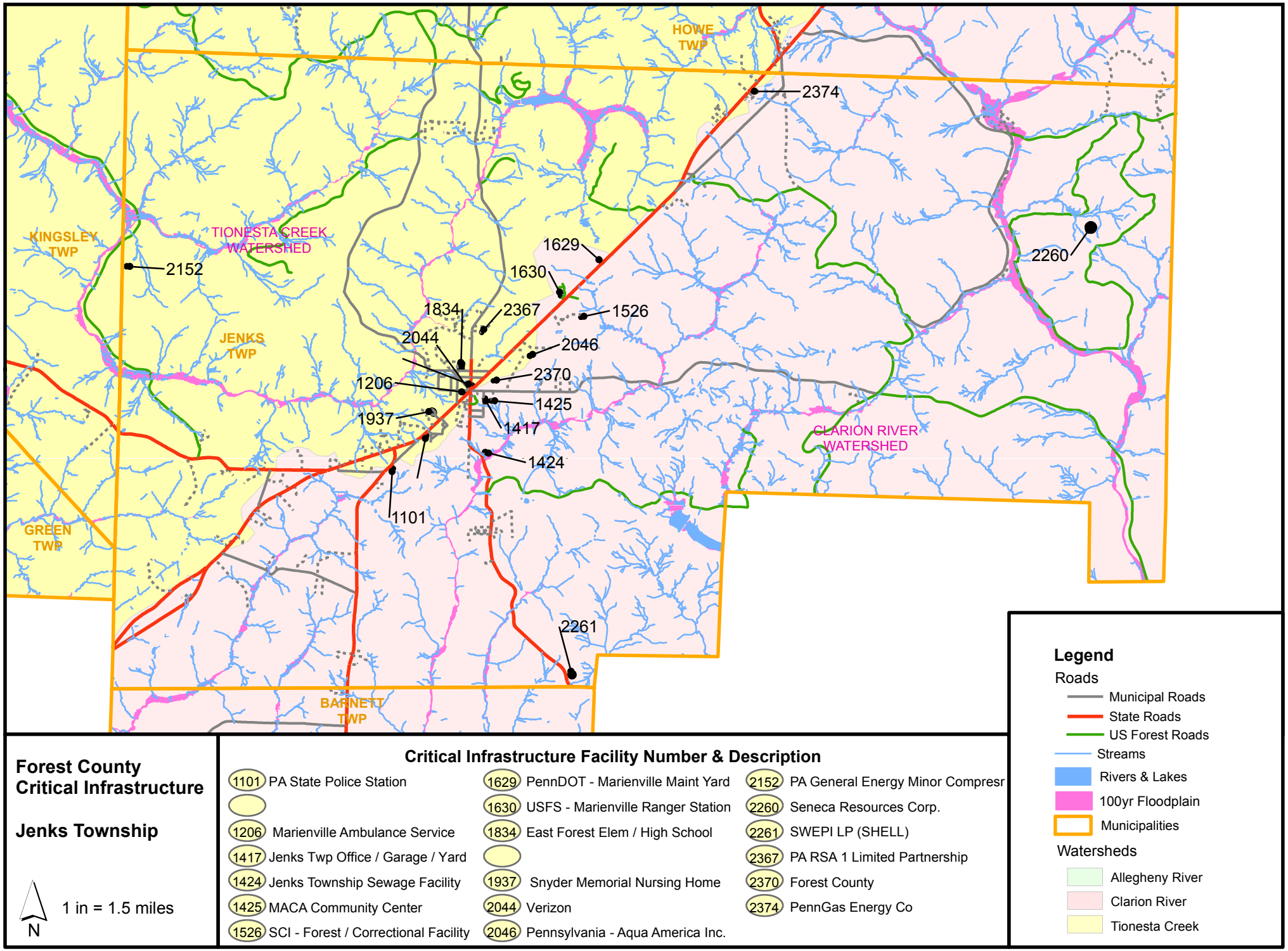
N

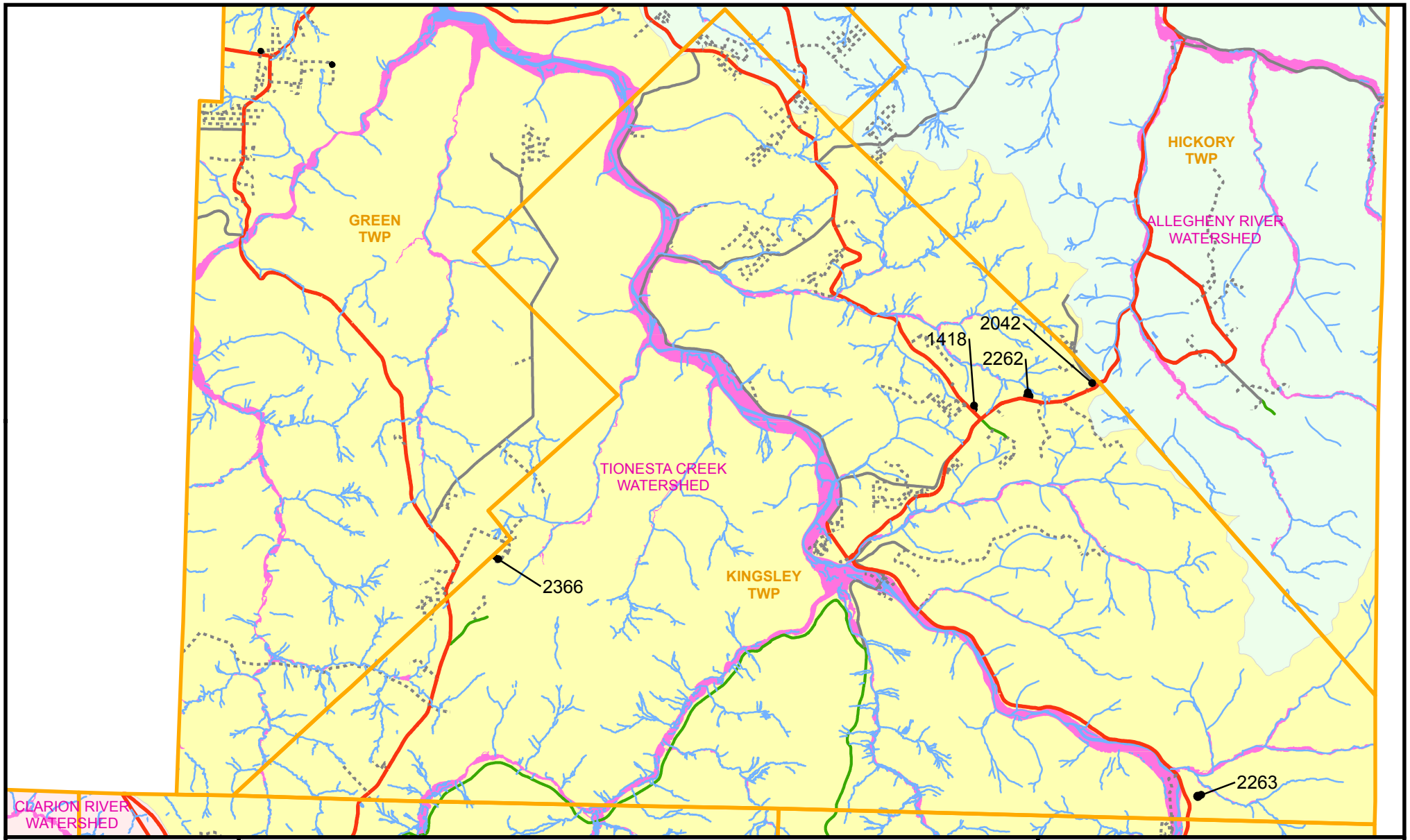
1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

1204	West Hickory Volunteer Fire Department	2039	First Energy Service Co. Sub-station
1413	Hickory Twp. Community Center / Office	2043	Verizon
1414	Hickory Township Garage / Yard	2154	Queen Station Compressor Site
1628	PennDOT - Hickory Maintenance Yard	2256	PA RSA 1 Lmtd
1833	West Forest Elementary / High School		


HICKORY TWP
2153
1415
2149
2259
HOWE TWP
TIONESTA CREEK WATERSHED
KINGSLEY TWP
1835
2257
1416
2148
2258
2147
CLARION RIVER WATERSHED
JENKS TWP
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
100yr Floodplain
Municipalities
Watersheds
Allegheny River
Clarion River
Tionesta Creek
Forest County
Critical Infrastructure
Howe Township
1 in = 1.5 miles
N
Critical Infrastructure Facility Number & Description
1415 Howe Township Office
1416 Howe Township Garage / Yard
1835 Cornell Abraxas School / Housing
2147 Tennessee Gas Pipeline Compressor Station
2148 Catalyst Compressor Station
2149 PA General Energy Compressor / Yard
2153 PA General Energy Minor Compressor
2257 PA General Energy
2258 PA General Energy Minor Compressor
2259 SWEPI LP (SHELL)


HOWE TWP
KINGSLEY TWP
TIONESTA CREEK WATERSHED
JENKS TWP
CLARION RIVER WATERSHED
GREEN TWP
BARNETT TWP
2374
2260
2152
1629
1630
1526
1834
2367
2044
2046
2370
1206
1425
1937
1417
1424
1101
2261
Forest County
Critical Infrastructure
Jenks Township
1 in = 1.5 miles
N
Critical Infrastructure Facility Number & Description
1101 PA State Police Station
1206 Marienville Ambulance Service
1417 Jenks Twp Office / Garage / Yard
1424 Jenks Township Sewage Facility
1425 MACA Community Center
1526 SCI - Forest / Correctional Facility
1629 PennDOT - Marienville Maint Yard
1630 USFS - Marienville Ranger Station
1834 East Forest Elem / High School
1937 Snyder Memorial Nursing Home
2044 Verizon
2046 Pennsylvania - Aqua America Inc.
2152 PA General Energy Minor Compresr
2260 Seneca Resources Corp.
2261 SWEPI LP (SHELL)
2367 PA RSA 1 Limited Partnership
2370 Forest County
2374 PennGas Energy Co
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
100yr Floodplain
Municipalities
Watersheds
Allegheny River
Clarion River
Tionesta Creek



Forest County Critical Infrastructure

Kingsley Township

N 1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

1418	Kingsley Township Office / Garage / Yard	2263	SWEPI LP (SHELL)
2042	Warren Electric Co Sub-station	2366	PA RSA 1 Lmtd
2262	PA RSA 1 Lmtd		

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

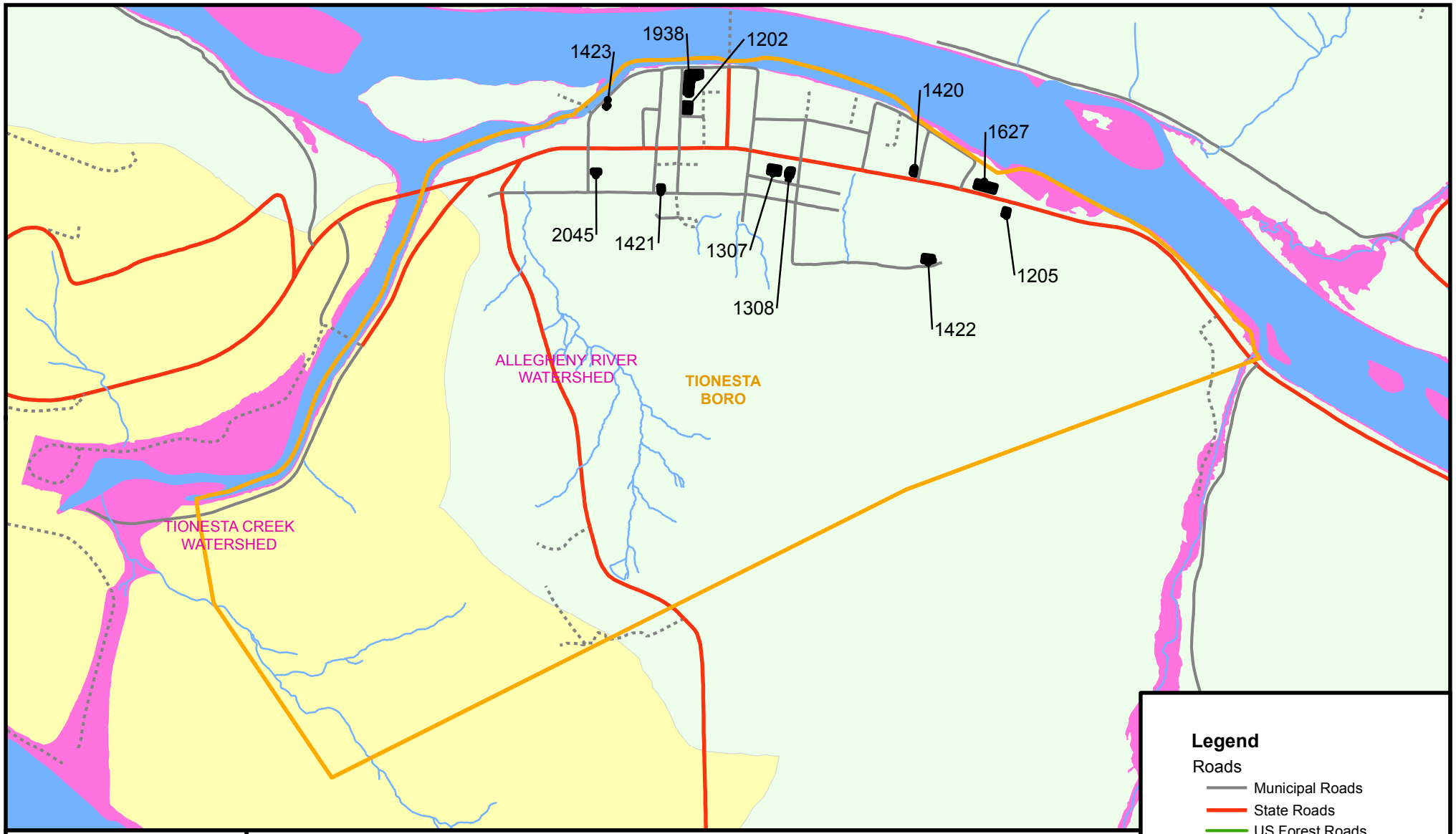
Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Tionesta Borough

N 1 in = 0.25 miles

Critical Infrastructure Facility Number & Description

- 1202 Tionesta Volunteer Fire Department
- 1205 Tionesta Ambulance Service
- 1307 Forest County Courthouse
- 1308 Forest County Sheriff
- 1420 Tionesta Borough Office
- 1421 Tionesta Borough Garage
- 1422 Tionesta Borough Water Reservoir
- 1423 Tionesta Borough Sewage Facility
- 1627 PennDOT - Tionesta Maint Office / Yard
- 1938 Tionesta Manor (Senior Housing)
- 2045 Verizon

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

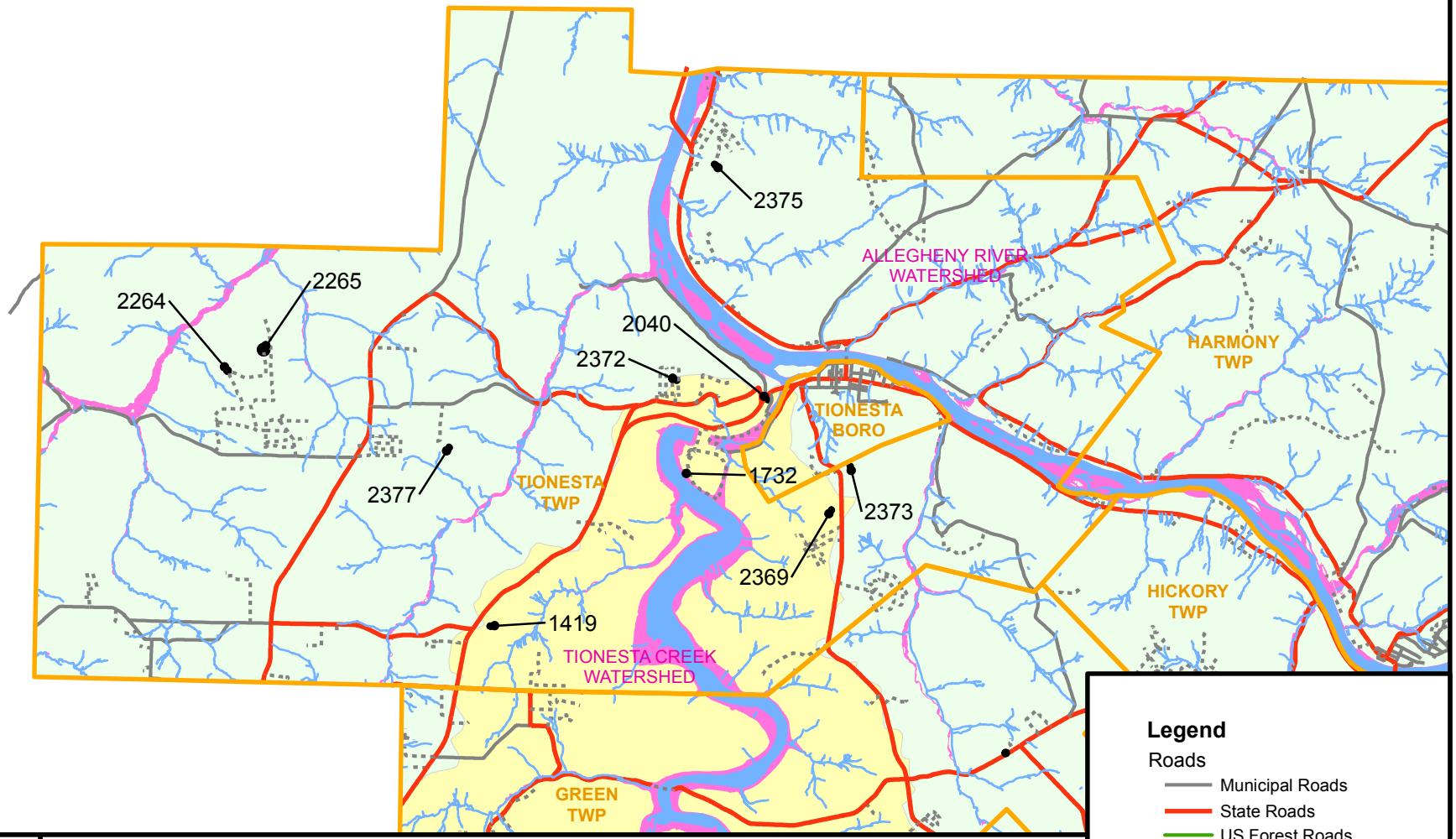
Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek



Forest County Critical Infrastructure

Tionesta Township

N 1 in = 1.5 miles

Critical Infrastructure Facility Number & Description

- 1419 Tionesta Township Office / Garage / Yard
- 1732 Tionesta Dam / Lake
- 2040 First Energy Service Co. Sub-station
- 2264 Seneca Resources Corp.
- 2265 Seneca Resources Corp.
- 2369 Forest County 911 Tower
- 2372 American Towers
- 2373 PA RSA 1 Limited Partnership
- 2375 CiG Comp Tower LLC
- 2377 Family Life Ministries

Legend

Roads
- Municipal Roads
- State Roads
- US Forest Roads

Streams

Rivers & Lakes

100yr Floodplain

Municipalities

Watersheds
- Allegheny River
- Clarion River
- Tionesta Creek

Jurisdiction: _____ ***Name/Title:*** _____

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status			Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Develop-ment				
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Tools/Program	Status			Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Develop-ment				
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA	
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* _____

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			

Capability Assessment Survey

Performing the capability assessment is important to formulate a viable mitigation strategy later in the planning process. A capability assessment has two components: an inventory of a jurisdiction's existing planning and regulatory tools and an analysis of its capacity to use them effectively. The assessment process helps identify existing gaps, conflicts and/or weaknesses that may need to be addressed through future mitigation planning goals, objectives, and actions. It also highlights the measures in place or already undertaken that merit continued support and enhancement through future mitigation efforts. The capability assessment also helps to ensure that proposed mitigation actions are practical considering the local ability to implement them. The community should highlight and describe any successful mitigation projects.

For this exercise, please complete the attached Capability Assessment Survey for your jurisdiction. Only one form needs to be filled out per municipality. There are 6 parts of the capability assessment. For the Planning and Regulatory Capability, review each line of the capability assessment table; if you have a capability, fill out that line. If you do not have a capability, leave the line blank. For the rest of the survey, please fill out each line. The form is a fillable PDF, so you can simply click in the highlighted fields to complete the assessment.

Appendix 4. Capability Self-Assessment Matrix

Purpose: To record the results from the *Capability Assessment Survey, Section 5, Self Assessment* in **Appendix 3**, completed by each jurisdiction.

Instructions: Complete the table below by first listing all communities. Then enter the degree of capability (limited, moderate, high) for each capability category that was recorded on each community's *Capability Assessment Survey, Section 5, Self Assessment*.

Community Name	Capability Category				
	Planning and Regulatory Capability	**Administrative and Technical Capability**	**Fiscal Capability**	**Community Political Capability**	**Community Resiliency Capability**
EXAMPLE: Hazardtown	*Moderate*	*Moderate*	*Limited*	*High*	*Moderate*
Barnett Twp	High	Limited	Moderate	High	Moderate
Tionesta B.	High	High	Limited	High	High
Kingsley Twp	High	High	Limited	Limited	Limited
Hickory Twp	High	High	Limited	High	High
Jenks Twp	High	Limited	Limited	High	Moderate
Robert Summers	High	High	High	High	High
Leonard Hetrick	High	High	High	High	High
Elton Kline	Moderate	Moderate	Moderate	Moderate	Moderate
Todd Huth	Moderate	Moderate	Limited	Moderate	Moderate
Basil Huffman	Moderate	Moderate	Moderate	Limited	Limited

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 5

ADD LOCAL EMA COORDINATOR

COMPLETED BY DAVID DUNN & TERRY CRAIG

BARNETT TOWNSHIP

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4.**

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability	X		
Fiscal Capability		X	
Community Political Capability			X
Community Resiliency Capability		X	

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4.**

Tionesta Borough

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability	X		
Community Political Capability			X
Community Resiliency Capability			X

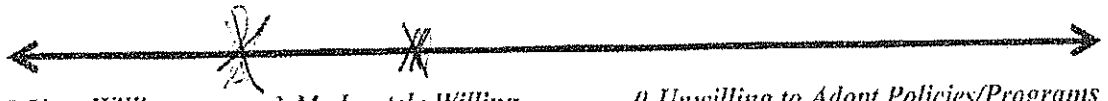
4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 5

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4.**

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.



5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs*

Score: 3

Jurisdiction: KINGSLEY TOWNSHIP *Name/Title:* JOHN DZIADIK / SUPERVISOR

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status			Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Develop-ment				
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Kingsley

Capability Assessment Survey

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA	
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA JENKS TWP. EMA COORDINATOR	
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 5

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability			X
Community Resiliency Capability		X	

Capability Assessment Survey

Jurisdiction: Hickory Township *Name/Title:* Cindy Crytzer, Secretary

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status			Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Develop-ment				
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Hickory

Capability Assessment Survey

Tools/Program	Status			Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
	In Place	Date Adopted or Updated	Under Develop-ment				
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA	
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

*3. **Fiscal Capability:*** Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs*

Score: 5
CSC

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability	X		
Community Political Capability			X
Community Resiliency Capability			X

Basil Huffman

Capability Assessment Survey

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 3

BOS/ Huffman

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability	X		
Community Resiliency Capability	X		

Todd Huth

Capability Assessment Survey

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 4

Todd Huth

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X		
Community Political Capability		X	
Community Resiliency Capability		X	

Elton Kline

Capability Assessment Survey

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 3

Elton Kline

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability		X	
Community Political Capability		X	
Community Resiliency Capability		X	

Leonard Kotrick

Capability Assessment Survey

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 4

Howard Hutrick

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			

Bob Summers

Capability Assessment Survey

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 5

Bob Summers

Capability Assessment Survey

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			X
Administrative and Technical Capability			X
Fiscal Capability			X
Community Political Capability			X
Community Resiliency Capability			X

Capability Assessment Survey

Jurisdiction: Forest *Name/Title:* Bob Meisel

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive -Negative	Comments
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./ Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning, Penn State Ext.			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA, Local EMA,	Jenks Twp, Barnett Twp
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 3

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			

Capability Assessment Survey

Jurisdiction: Green *Name/Title:* Carl Haberman

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Develop-ment	Dept./Agency Respon-sible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive -Negative	Comments
EXAMPLE: Hazard Mitigation Plan	X	1/1/2006		Hazard County EMA	+	-	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./ Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning, Penn State Ext.			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA, Local EMA,	Jenks Twp, Barnett Twp
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 5

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

Capability Assessment Survey

Jurisdiction: Green Township *Name/Title:* [signature] Supervisor

I. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./ Agency Responsible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./ Agency Respon-sible	Effect on Loss Reduction: + Support 0 Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning, Penn State Ext.			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA, Local EMA,	Jenks Twp, Barnett Twp
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 3

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

Jurisdiction: Green *Name/Title:* Mark Wagner

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Supports, Neutral or Hinders) with the appropriate symbol and also indicate if there has been a change in the ability of the tool/program to result in loss reduction. Finally, please provide additional comments or explanations in the space provided.

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept./Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
EXAMPLE: Hazard Mitigation Plan	x	1/1/2006		Hazard County EMA	+	+	Interim update in 2008 revised mitigation strategy; completed one action.
Hazard Mitigation Plan	X	9/2014	X	Conservation & Planning			
Emergency Operations Plan	X	7/2017		Forest County EMA			
Disaster Recovery Plan							
Evacuation Plan							
Continuity of Operations Plan	X	12/2014		Forest/Warren County Court of Common Pleas			
NFIP	X	Varies		Municipalities			
NFIP-CRS							
Floodplain Regulations	X	2010		Municipalities	+	+	Municipalities adopted 2010 Floodplain Maps
Floodplain Management Plan							
Zoning Regulations	X			Tionesta Borough			Only in Tionesta Borough
Subdivision Regulations	X	1/13/2000	X	Conservation & Planning	+	+	Update in progress, scheduled to be adopted in 2019

Tools/Program	Status: In Place	Status: Date Adopted or Updated	Status: Under Development	Dept/ Agency Responsible	Effect on Loss Reduction: + Support O Neutral - Hinder	Changes Since Last Plan: + Positive - Negative	Comments
Comprehensive Land Use Plan (or General, Master, or Growth Mgmt. Plan)	X	5/2013		Conservation & Planning			
Open Space Management Plan (or Parks/Rec or Greenways Plan)	X	9/2008		Northwest Regional Commission			Greenways Plan. This is a multi-county plan.
Stormwater Management Plan/Ordinance	X	7/2015		Conservation & Planning	+	+	Forest County Conservation & Planning administers the ordinance on behalf of the Municipalities.
Natural Resource Protection Plan							
Capital Improvement Plan							
Economic Development Plan							Forest County Three Year Community Development Plan
Historic Preservation Plan							
Farmland Preservation							
Building Code	X	Varies		Municipalities			Municipalities are responsible.
Fire Code	X	Varies		Municipalities			Municipalities are responsible.
Firewise	X	6/2014		Conservation & Planning, Penn State Ext.			
Storm Ready	X	6/2018		Forest County EMA			
Other							

2. Administrative and Technical Capability: Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

Staff/Personnel Resources	Yes	No	Department/Agency	Comments
Planners (with land use / land development knowledge)	X		Conservation & Planning	
Planners or engineers (with natural and/or human caused hazards knowledge)	X		Conservation & Planning Emergency Management Coordinator	
Engineers or professionals trained in building and/or infrastructure construction practices (includes building inspectors)		X		
Emergency manager	X		Forest County EMA, Local EMA,	Jenks Twp, Barnett Twp
Floodplain manager		X		
Land surveyors	X		Conservation & Planning Board	
Scientists or staff familiar with the hazards of the Community	X		Conservation & Planning Board	
Personnel skilled in Geographic Information Systems (GIS) and/or FEMA's HAZUS program	X		Forest County 9-1-1	The 9-1-1 Coordinator is trained in GIS. No staff is trained in HAZUS.
Grant writers or fiscal staff to handle large/complex Grants	X		Forest County Community and Economic Development	Rowan Rose
Other				

3. Fiscal Capability: Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources ***for hazard mitigation purposes*** (including as match funds for State of Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

Financial Resources	Yes	No	Department/Agency	Comments
Capital Improvement Programming		X		
Community Development Block Grants (CDBG)	X		Forest County Community and Economic Development	Depends on what the mitigation project is. This resource is limited.
Special Purpose Taxes		X		
Gas / Electric Utility Fees		X		
Water / Sewer Fees	X		Municipality	
Stormwater Utility Fees	X		Conservation & Planning	ACT 167 Review Fee (Stormwater Ordinance)
Development Impact Fees	X			Gas industry impact fees. Act 13 funds to the County level.
General Obligation, Revenue, and/or Special Tax Bonds				
Partnering Arrangements or Intergovernmental Agreements				
Other				

4. Community Political Capability: Political capability in this instance is being measured by the degree to which local political leadership (including appointed boards) is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Rate the jurisdiction's political capability to enact policies and programs that reduce hazard vulnerabilities on a scale from 0 to 5. Generally, a higher the score corresponds to a higher degree of community political capability.

5-Very Willing *3-Moderately Willing* *0-Unwilling to Adopt Policies/Programs* *Score:* 3

5. Self-Assessment of Capability: Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "**X**" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey. For multi-jurisdictional plans, record the results of this section into the Self-Assessment Capability Matrix in **Appendix 4**.

Area	Degree of Capability		
	Limited	Moderate	High
Planning and Regulatory Capability	X		
Administrative and Technical Capability	X		
Fiscal Capability	X		
Community Political Capability	X		
Community Resiliency Capability	X		

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Jacqui Bross **Title:** Secretary

Jurisdiction: Kingsley Township

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked **I** or **D** in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	N/C	
Winter Storms	N/C	
Tornadoes, Wind Storm	N/C	
Drought	N/C	
Thunderstorms	N/C	
Earthquakes	N/C	
Landslides	N/C	
Lightning Strikes	N/C	
Pandemic	N/C	
Radon Exposure	N/C	
Winter Storm	N/C	
Wild Fire	N/C	
Invasive Species	I	Increase in range of several plant/insect species - ie Knotweed Emerald Ash Borer Woolie Addgid

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	N/C	
Dam Failure	N/C	
Disorientation	N/C	
Environmental	N/C	
Transportation Accidents	N/C	
Utility Interruption	N/C	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- [x] *River Erosion*
- [ ] *Drought*
- [ ] *Earthquake*
- [ ] *Expansive Soils*
- [ ] *Extreme Temperature*
- [ ] *Hailstorm*
- [ ] *Hurricane, Tropical Storm, Nor'easter*
- [x] *Invasive Species*
- [ ] *Landslide*
- [ ] *Lightning Strike*
- [ ] *Pandemic*
- [ ] *Radon Exposure*
- [ ] *Subsidence, Sinkhole*
- [ ] *Wildfire*

Human-made Hazards

- [ ] *Building or Structure Collapse*
- [ ] *Civil Disturbance*
- [ ] *Disorientation*
- [ ] *Drowning*
- [x] *Dam Failure*
- [ ] *War and Criminal Activity*
- [ ] *Levee Failure*
- [ ] *Nuclear Incidents*
- [ ] *Terrorism*
- [ ] *Transportation Accidents*
- [ ] *Urban Fire and Explosion*
- [x] *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Robert Wagner **Title:** Supervisor

Jurisdiction: Tionesta Township

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	NC	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	I	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- [x] *River Erosion*
- [ ] *Earthquake*
- [x] *Extreme Temperature*
- [ ] *Hurricane, Tropical Storm, Nor'easter*
- [x] *Landslide*
- [ ] *Pandemic*
- [x] *Subsidence, Sinkhole*
- [x] *Drought*
- [ ] *Expansive Soils*
- [x] *Hailstorm*
- [x] *Invasive Species*
- [x] *Lightning Strike*
- [ ] *Radon Exposure*
- [ ] *Wildfire*

Human-made Hazards

- [x] *Building or Structure Collapse*
- [x] *Disorientation*
- [ ] *Dam Failure*
- [ ] *Levee Failure*
- [x] *Terrorism*
- [ ] *Urban Fire and Explosion*
- [ ] *Civil Disturbance*
- [x] *Drowning*
- [ ] *War and Criminal Activity*
- [ ] *Nuclear Incidents*
- [x] *Transportation Accidents*
- [ ] *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Bob Wagner ***Title:***

Jurisdiction:

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	NC	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	I	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- [x] *River Erosion*
- [ ] *Earthquake*
- [x] *Extreme Temperature*
- [ ] *Hurricane, Tropical Storm, Nor'easter*
- [x] *Landslide*
- [ ] *Pandemic*
- [x] *Subsidence, Sinkhole*
- [x] *Drought*
- [ ] *Expansive Soils*
- [x] *Hailstorm*
- [x] *Invasive Species*
- [x] *Lightning Strike*
- [ ] *Radon Exposure*
- [ ] *Wildfire*

Human-made Hazards

- [x] *Building or Structure Collapse*
- [x] *Disorientation*
- [ ] *Dam Failure*
- [ ] *Levee Failure*
- [x] *Terrorism*
- [ ] *Urban Fire and Explosion*
- [ ] *Civil Disturbance*
- [x] *Drowning*
- [ ] *War and Criminal Activity*
- [ ] *Nuclear Incidents*
- [x] *Transportation Accidents*
- [ ] *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Beverly Pollock **Title:** Secretary / Treasurer

Jurisdiction: Howe Township

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	NC	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Tionesta Boro ***Title:***

Jurisdiction:

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	I	Increase in Flooding Due to the Increase of Severe Thunder Storms & Rain Events
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	I	Increase in Storm Severity & Frequency
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	NC	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☒ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: David Dunn ***Title: EMA Coordinator/Supervisor***

Jurisdiction: Barnett Township

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Natural Hazards		
Floods, Flash Flood, Ice Jam	**NC**	
Winter Storms	**NC**	
Tornadoes, Wind Storm	**NC**	
Drought	**NC**	
Thunderstorms	**NC**	
Earthquakes	**NC**	
Landslides	**NC**	
Lightning Strikes	**NC**	
Pandemic	**NC**	
Radon Exposure	**NC**	
Winter Storm	**NC**	
Wild Fire	**NC**	
Invasive Species	**NC**	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	**NC**	
Dam Failure	**NC**	
Disorientation	**NC**	
Environmental	**NC**	
Transportation Accidents	**NC**	
Utility Interruption	**I**	Power outage are still a major issue. These effects telephone service in the area. After 1 hour we lose telephone service. There is no cellular service that covers all of our township.

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

X ***River Erosion***	☐ ***Drought***
☐ ***Earthquake***	☐ ***Expansive Soils***
☐ ***Extreme Temperature***	☐ ***Hailstorm***
☐ ***Hurricane, Tropical Storm, Nor'easter***	☐ ***Invasive Species***
☐ ***Landslide***	☐ ***Lightning Strike***
☐ ***Pandemic***	☐ ***Radon Exposure***
☐ ***Subsidence, Sinkhole***	☐ ***Wildfire***

Human-made Hazards

☐ ***Building or Structure Collapse***	☐ ***Civil Disturbance***
☐ ***Disorientation***	☐ ***Drowning***
X ***Dam Failure***	☐ ***War and Criminal Activity***
☐ ***Levee Failure***	☐ ***Nuclear Incidents***
☐ ***Terrorism***	☐ ***Transportation Accidents***
☐ ***Urban Fire and Explosion***	X ***Utility Interruption***

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: KARLA BEACH **Title:** Secretary

Jurisdiction: HARMONY twp

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms		
Tornadoes, Wind Storm		
Drought		
Thunderstorms		
Earthquakes		
Landslides		
Lightning Strikes		
Pandemic		
Radon Exposure		
Winter Storm		
Wild Fire		
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance		
Dam Failure	NC	
Disorientation		
Environmental		
Transportation Accidents		
Utility Interruption		

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Misty Dittman **Title:** Sec/Treas

Jurisdiction: Jenks Township

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	D	
Tornadoes, Wind Storm	I	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	NC	
Radon Exposure	NC	
Winter Storm	D	
Wild Fire	NC	
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	***How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?*** **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	***Additional Comments***
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☒ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☒ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: ***Title:***

Jurisdiction:

Green Twp

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	I	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* NC=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☑ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

PATTERSON - GREEN TOWNSHIP

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: ***Title:***

Jurisdiction:

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* NC=No Change, I=Increase, D=Decrease *(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	I	
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	NC	

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* NC=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: CARL HABERMAN **Title:** BUILDING PERMIT/CODE ENFORCEMENT OFFICER

Jurisdiction: GREEN TWP

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* NC=No Change, I=Increase, D=Decrease *(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	NC	
Winter Storms	NC	
Tornadoes, Wind Storm	NC	
Drought	NC	
Thunderstorms	NC	
Earthquakes	NC	
Landslides	NC	
Lightning Strikes	NC	
Pandemic	I	COVID
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	I	STINK BUGS

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	NC	
Transportation Accidents	NC	
Utility Interruption	NC	

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

Natural Hazards

- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☑ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

Human-made Hazards

- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

Other Comment

Forest County
Municipality Hazard Identification and Risk Evaluation Worksheet

Name: Bede Meisel **Title:** Supervisor.

Jurisdiction: Green Twp

Bede M.

PART 1

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* NC=No Change, I=Increase, D=Decrease *(Please provide an explanation for any hazards marked I or D in the "Additional Comments" column)*	*Additional Comments*
Natural Hazards		
Floods, Flash Flood, Ice Jam	N.C.	
Winter Storms	N.C.	
Tornadoes, Wind Storm	N.C.	
Drought	NC	
Thunderstorms	N.C.	
Earthquakes	NC.	
Landslides	NC	
Lightning Strikes	N.C.	
Pandemic	I	COV 19
Radon Exposure	NC	
Winter Storm	NC	
Wild Fire	NC	
Invasive Species	I	Ticks Lyme Dis.

Identified Hazards 2014 Forest County Hazard Mitigation Plan	*How has the frequency of occurrence, magnitude of impact, and/or geographic extent changed in your community?* **NC**=No Change, **I**=Increase, **D**=Decrease *(Please provide an explanation for any hazards marked* **I** *or* **D** *in the "Additional Comments" column)*	*Additional Comments*
Human-made Hazards		
Civil Disturbance	NC	
Dam Failure	NC	
Disorientation	NC	
Environmental	I	Dust Control + Regulations Storm water Mang.
Transportation Accidents	NC	
Utility Interruption	I	Scam Calls

PART II

Other Hazards:

Do any of these hazards, not previously profiled in the County's hazard mitigation plan, have the potential to affect your municipality significantly? *(If so, check box)*

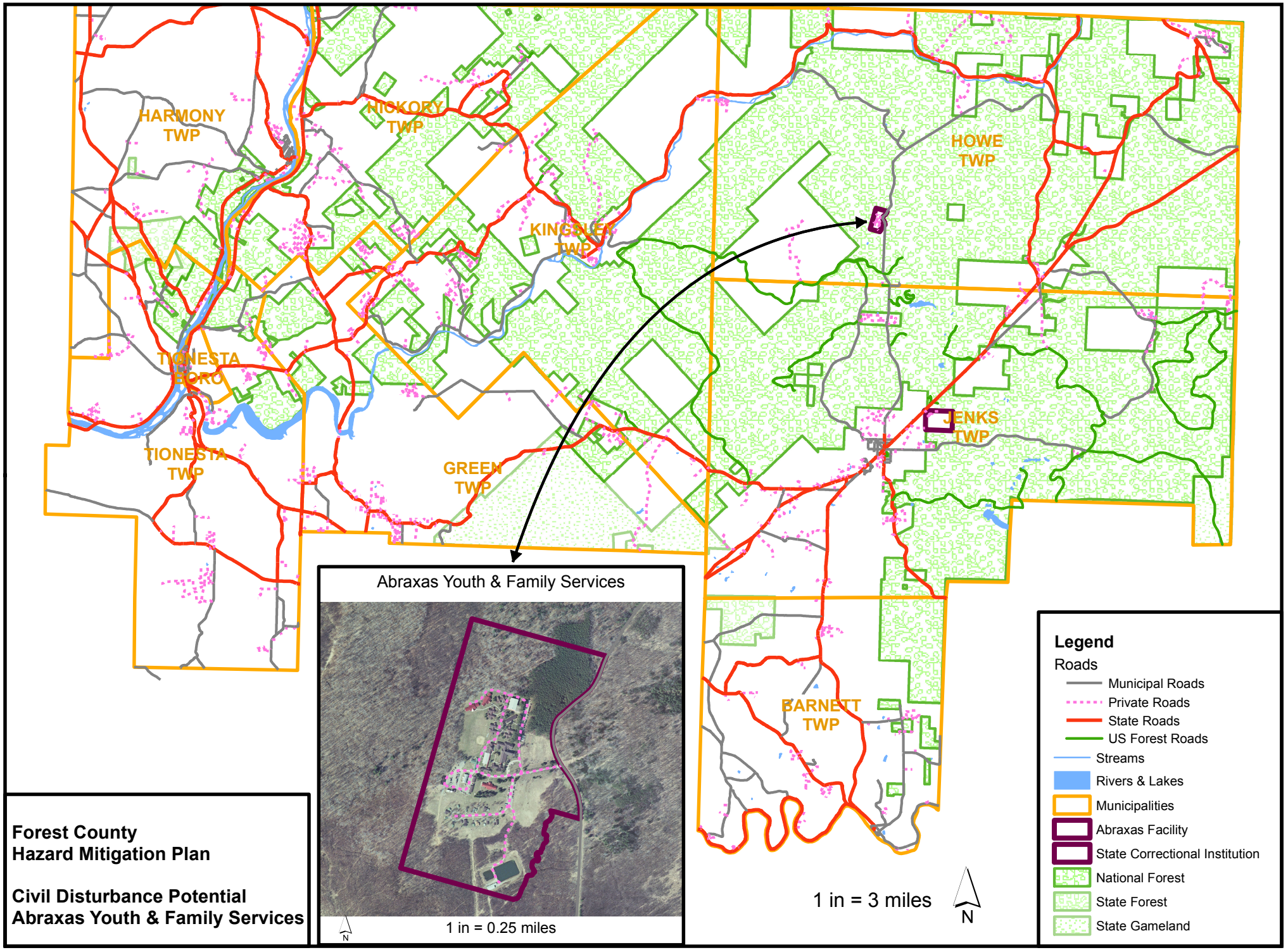
Natural Hazards

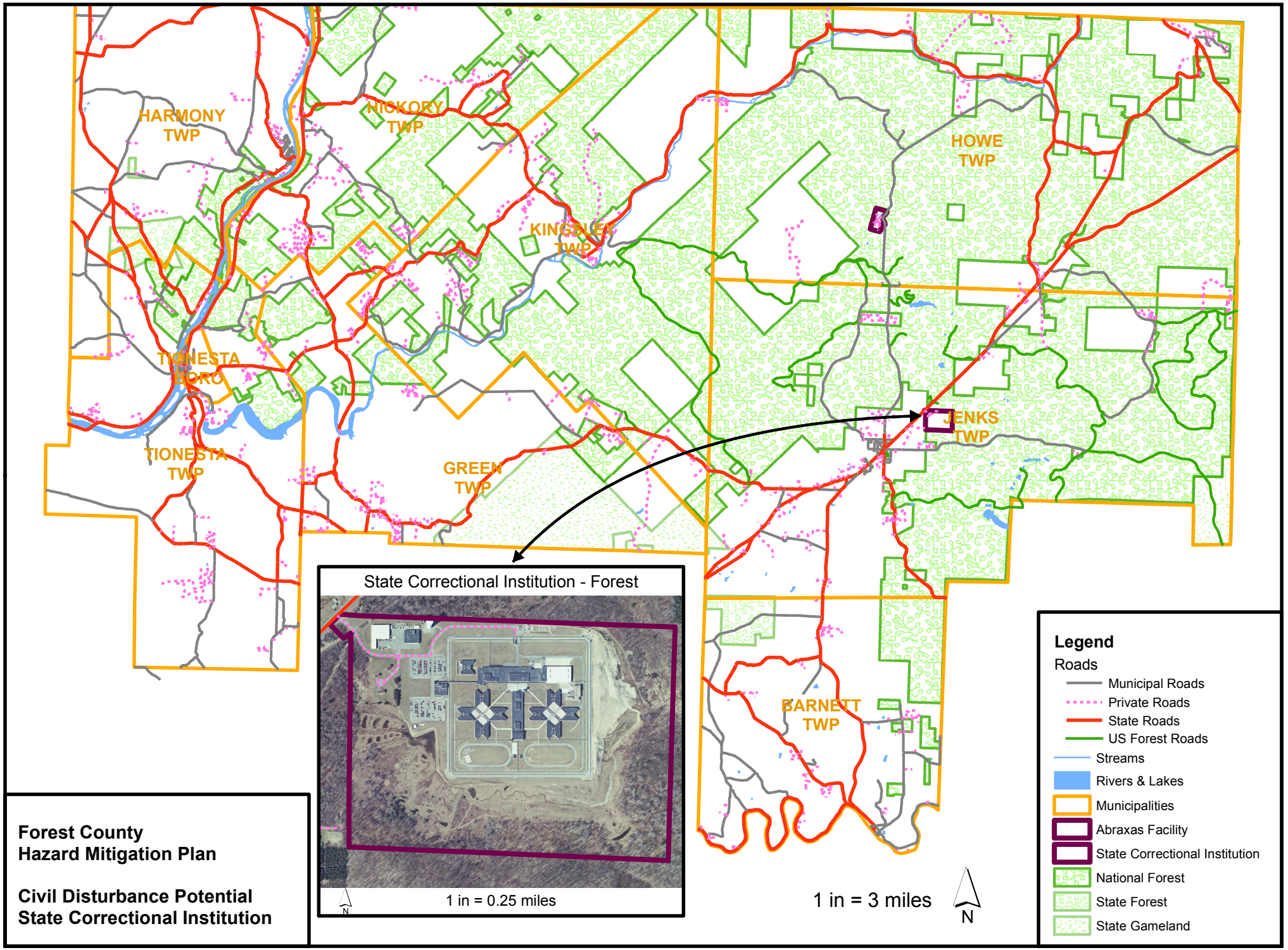
- ☐ *River Erosion*
- ☐ *Earthquake*
- ☐ *Extreme Temperature*
- ☐ *Hurricane, Tropical Storm, Nor'easter*
- ☐ *Landslide*
- ☐ *Pandemic*
- ☐ *Subsidence, Sinkhole*
- ☐ *Drought*
- ☐ *Expansive Soils*
- ☐ *Hailstorm*
- ☐ *Invasive Species*
- ☐ *Lightning Strike*
- ☐ *Radon Exposure*
- ☐ *Wildfire*

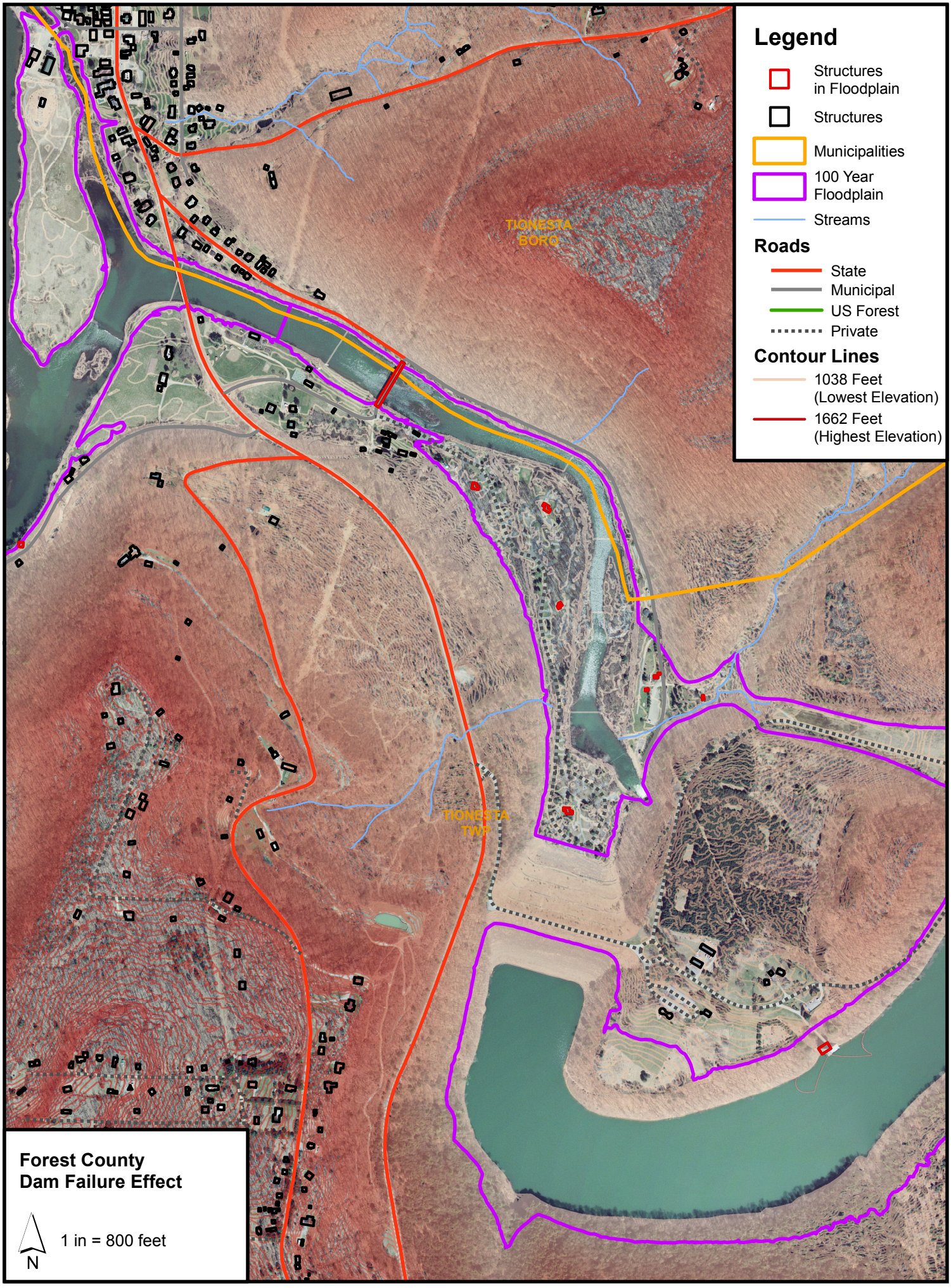
Human-made Hazards

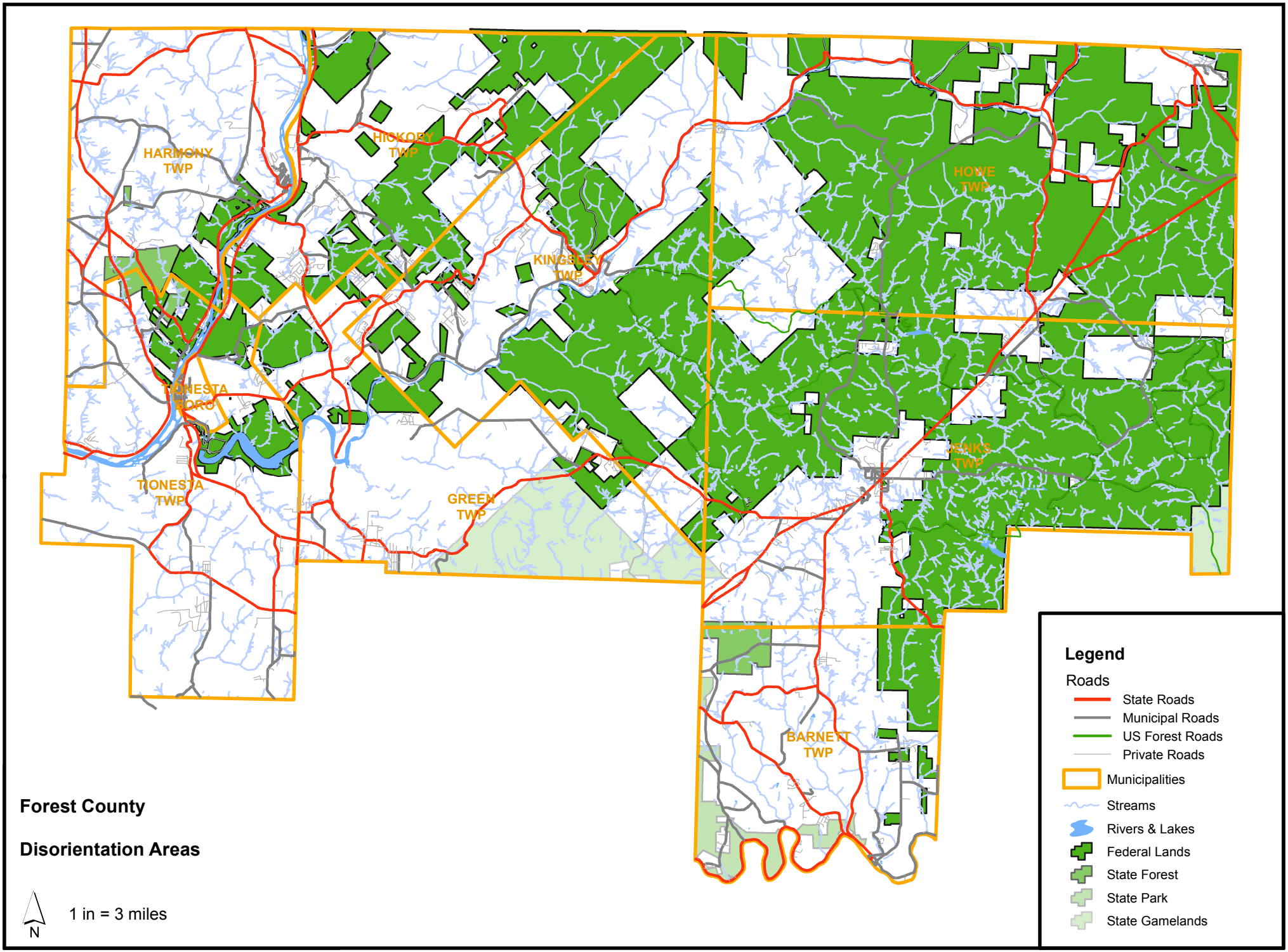
- ☐ *Building or Structure Collapse*
- ☐ *Disorientation*
- ☐ *Dam Failure*
- ☐ *Levee Failure*
- ☐ *Terrorism*
- ☐ *Urban Fire and Explosion*
- ☐ *Civil Disturbance*
- ☐ *Drowning*
- ☐ *War and Criminal Activity*
- ☐ *Nuclear Incidents*
- ☐ *Transportation Accidents*
- ☐ *Utility Interruption*

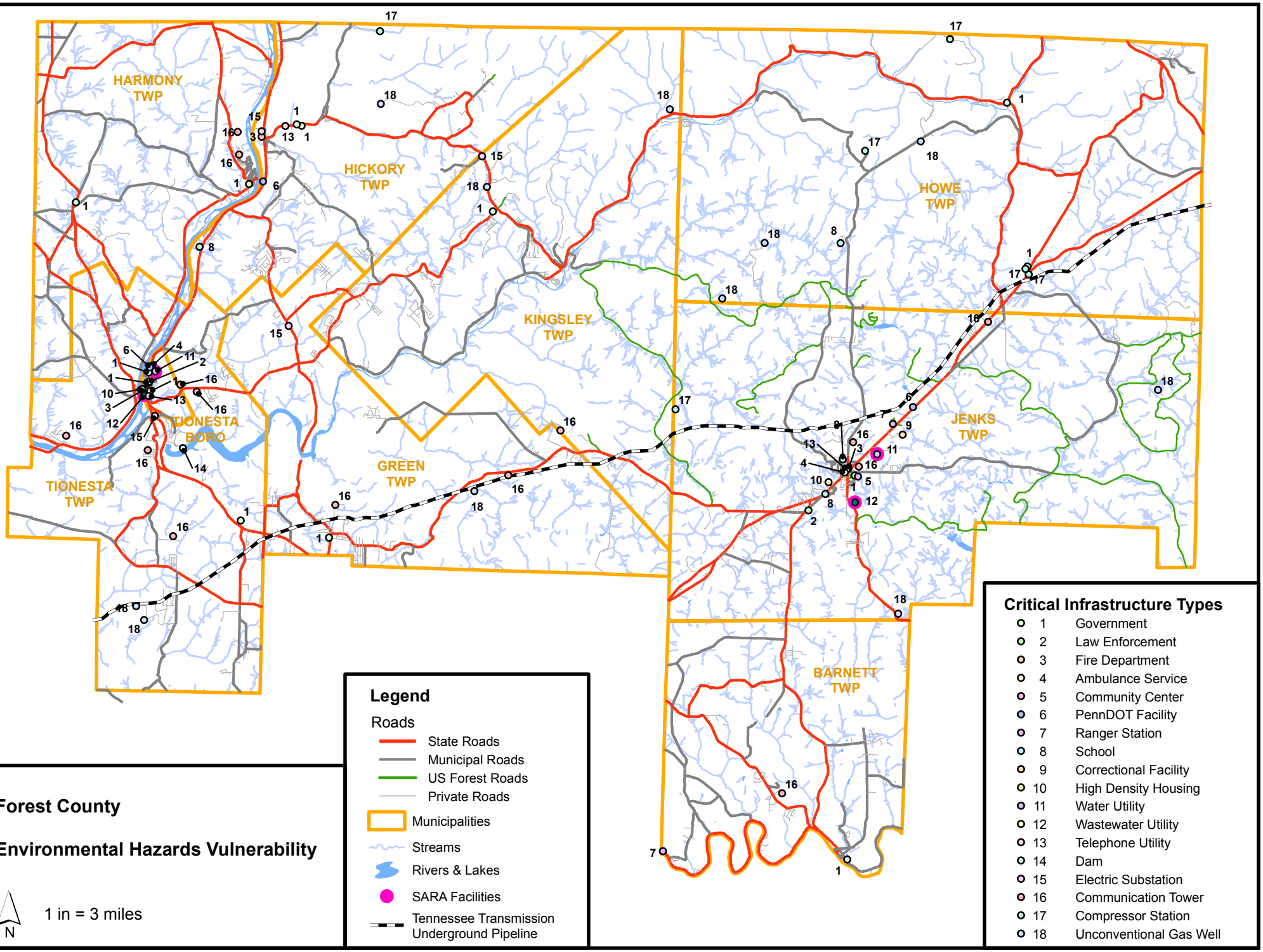
Other Comment

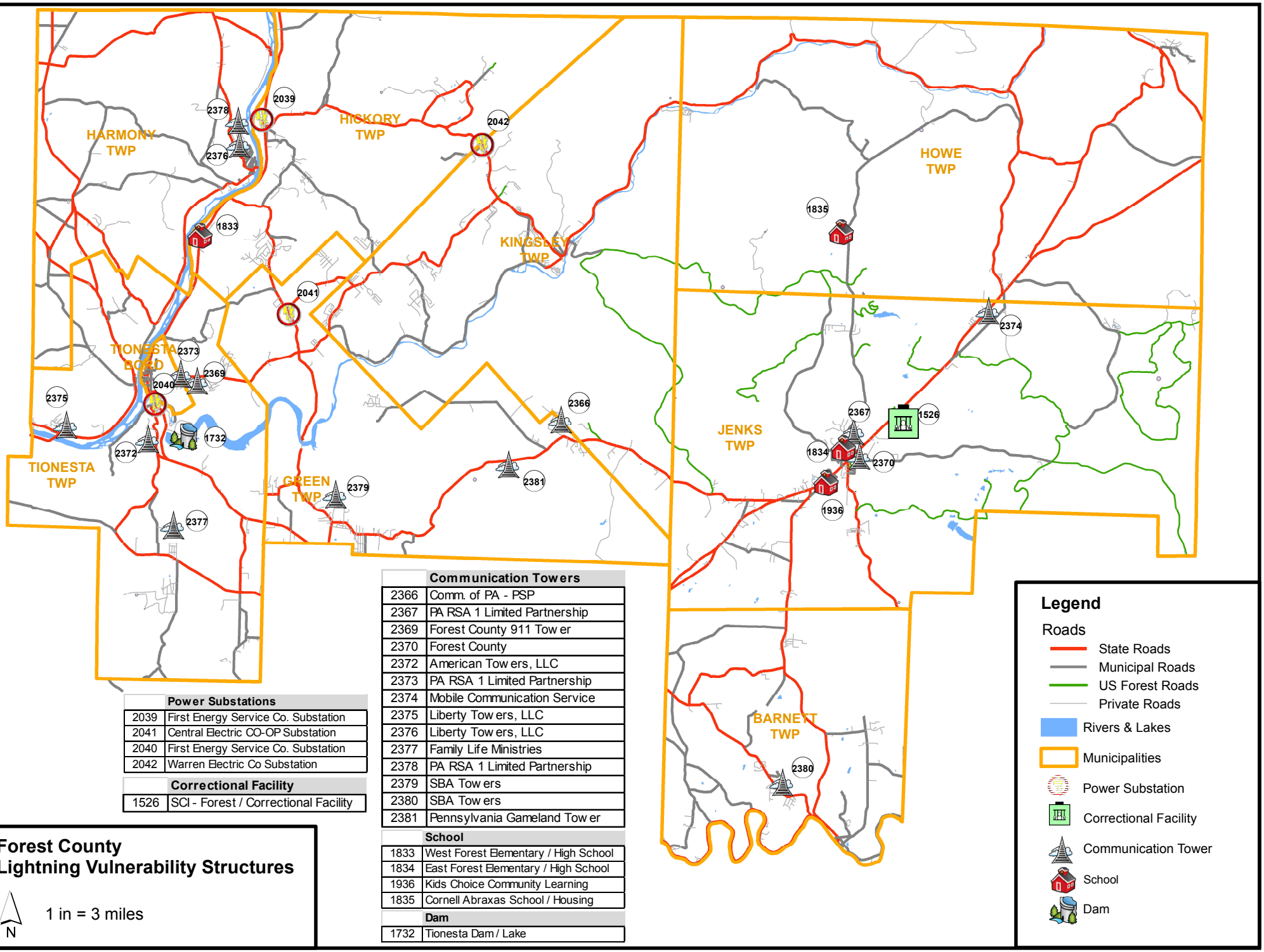

HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
Abraxas Youth & Family Services
1 in = 0.25 miles
N
1 in = 3 miles
N
Legend
Roads
Municipal Roads
Private Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Abraxas Facility
State Correctional Institution
National Forest
State Forest
State Gameland
Forest County
Hazard Mitigation Plan
Civil Disturbance Potential
Abraxas Youth & Family Services


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
State Correctional Institution - Forest
1 in = 0.25 miles
1 in = 3 miles
N
Legend
Roads
Municipal Roads
Private Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Abraxas Facility
State Correctional Institution
National Forest
State Forest
State Gameland
Forest County
Hazard Mitigation Plan
Civil Disturbance Potential
State Correctional Institution


Legend
Structures in Floodplain
Structures
Municipalities
100 Year Floodplain
Streams
Roads
State
Municipal
US Forest
Private
Contour Lines
1038 Feet (Lowest Elevation)
1662 Feet (Highest Elevation)
TIONESTA BORO
TIONESTA TWP
Forest County
Dam Failure Effect
1 in = 800 feet
N


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
Forest County
Disorientation Areas
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
Federal Lands
State Forest
State Park
State Gamelands


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
JENKS TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
BARNETT TWP
Forest County
Environmental Hazards Vulnerability
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
SARA Facilities
Tennessee Transmission Underground Pipeline
Critical Infrastructure Types
1 Government
2 Law Enforcement
3 Fire Department
4 Ambulance Service
5 Community Center
6 PennDOT Facility
7 Ranger Station
8 School
9 Correctional Facility
10 High Density Housing
11 Water Utility
12 Wastewater Utility
13 Telephone Utility
14 Dam
15 Electric Substation
16 Communication Tower
17 Compressor Station
18 Unconventional Gas Well



	Power Substations
2039	First Energy Service Co. Substation
2041	Central Electric CO-OP Substation
2040	First Energy Service Co. Substation
2042	Warren Electric Co Substation

	Correctional Facility
1526	SCI - Forest / Correctional Facility

	Communication Towers
2366	Comm. of PA - PSP
2367	PA RSA 1 Limited Partnership
2369	Forest County 911 Tower
2370	Forest County
2372	American Towers, LLC
2373	PA RSA 1 Limited Partnership
2374	Mobile Communication Service
2375	Liberty Towers, LLC
2376	Liberty Towers, LLC
2377	Family Life Ministries
2378	PA RSA 1 Limited Partnership
2379	SBA Towers
2380	SBA Towers
2381	Pennsylvania Gameland Tower

	School
1833	West Forest Elementary / High School
1834	East Forest Elementary / High School
1936	Kids Choice Community Learning
1835	Cornell Abraxas School / Housing

	Dam
1732	Tionesta Dam / Lake

Legend

Roads
- State Roads
- Municipal Roads
- US Forest Roads
- Private Roads

Rivers & Lakes

Municipalities

Power Substation

Correctional Facility

Communication Tower

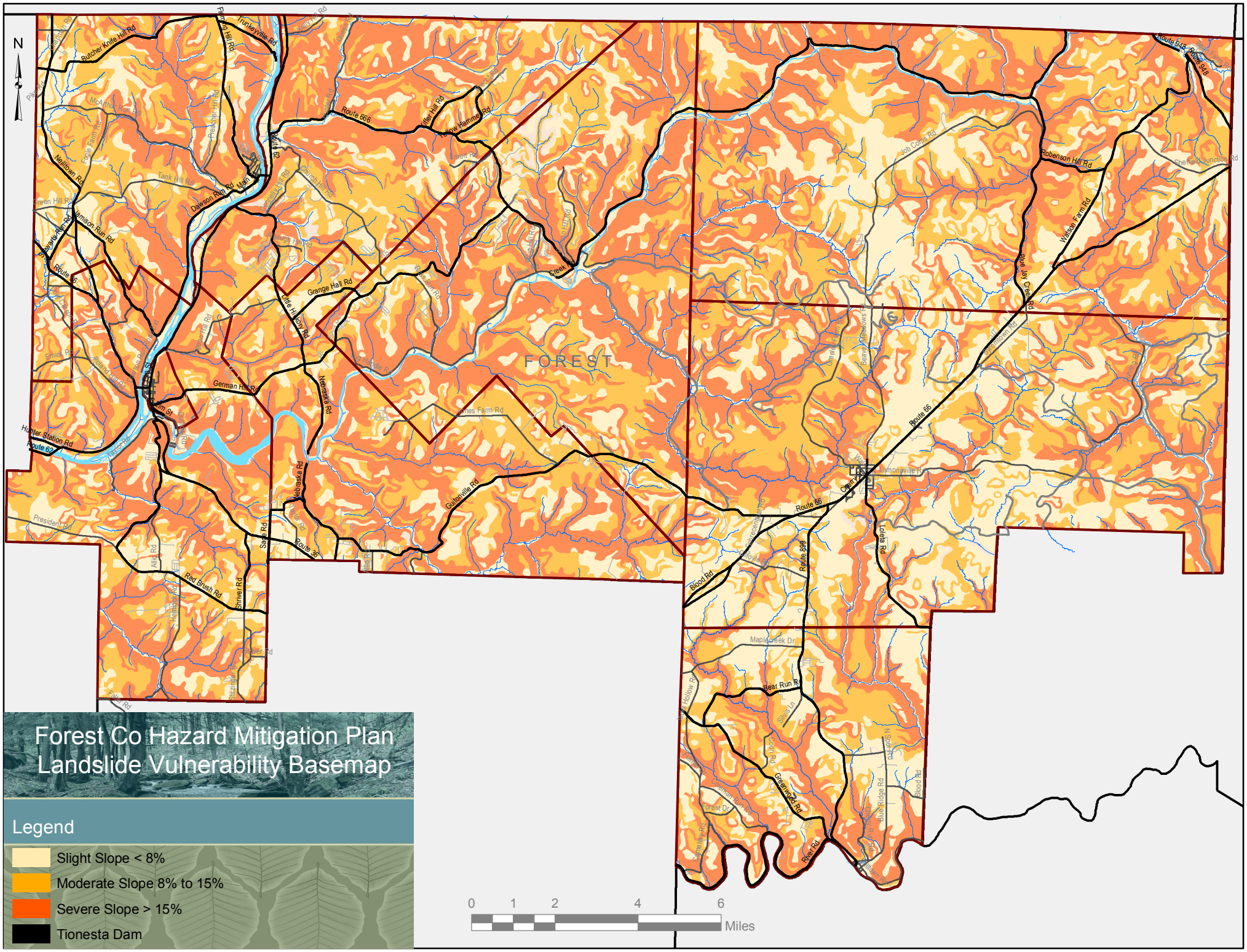
School

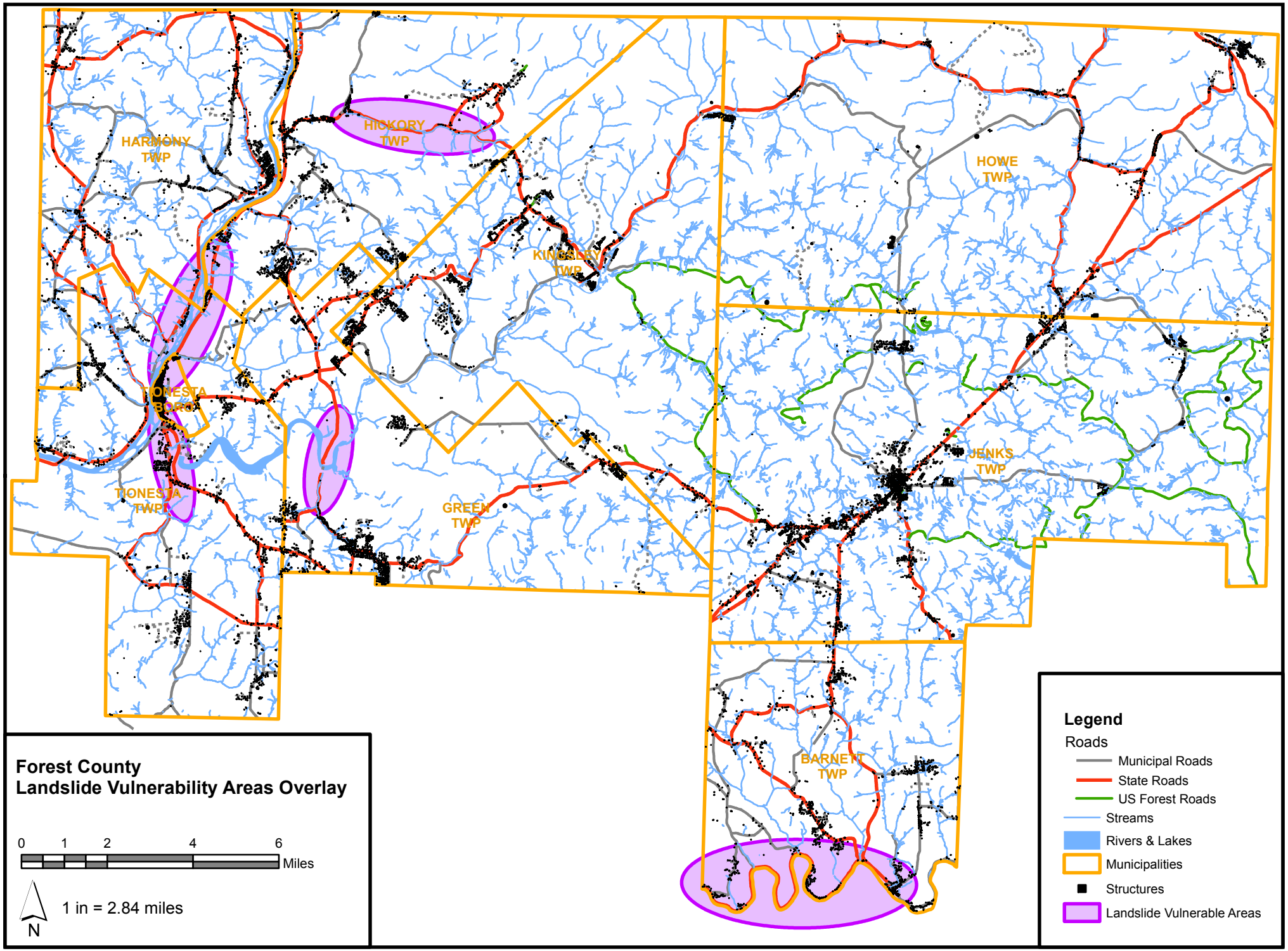
Dam

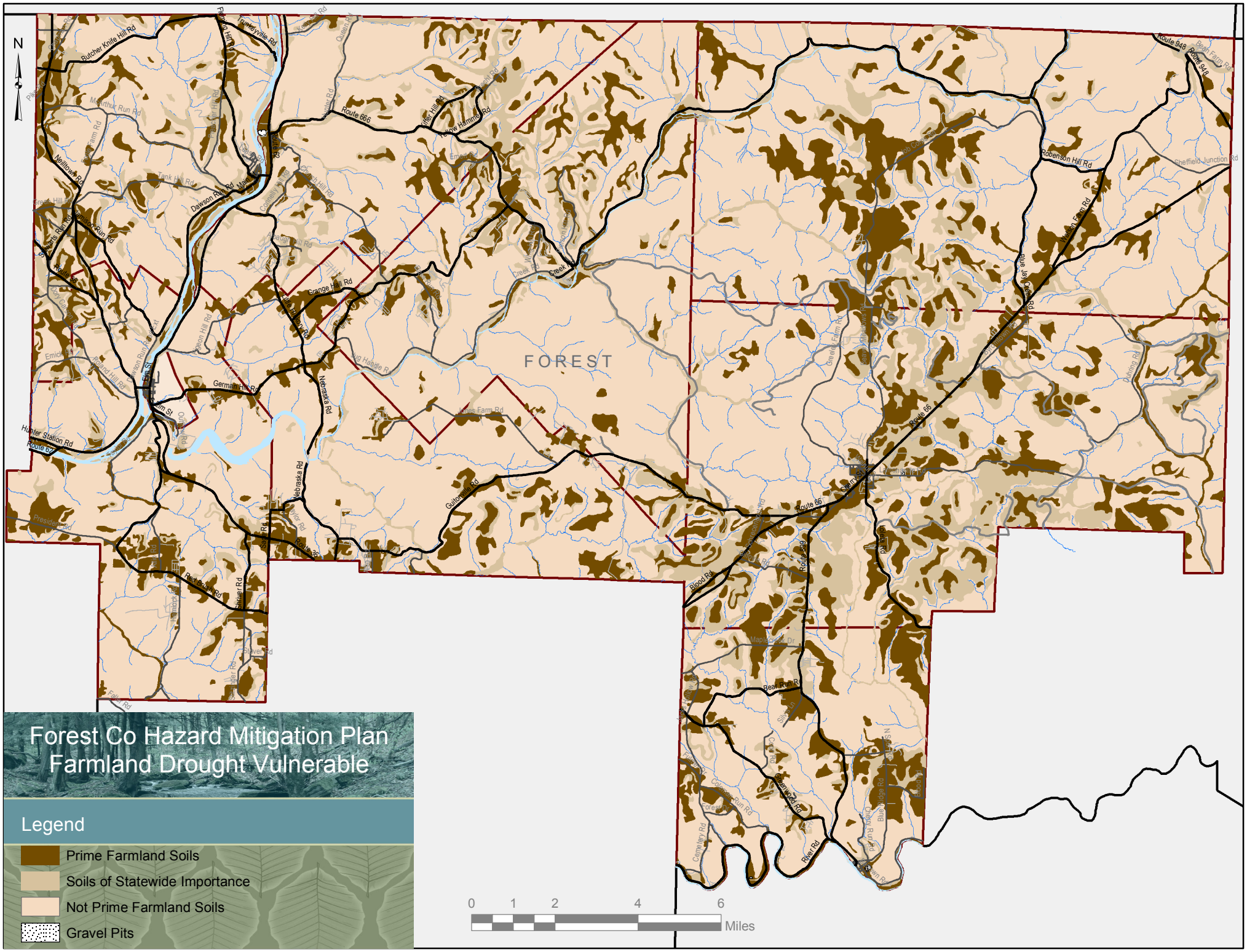
Forest County
Lightning Vulnerability Structures

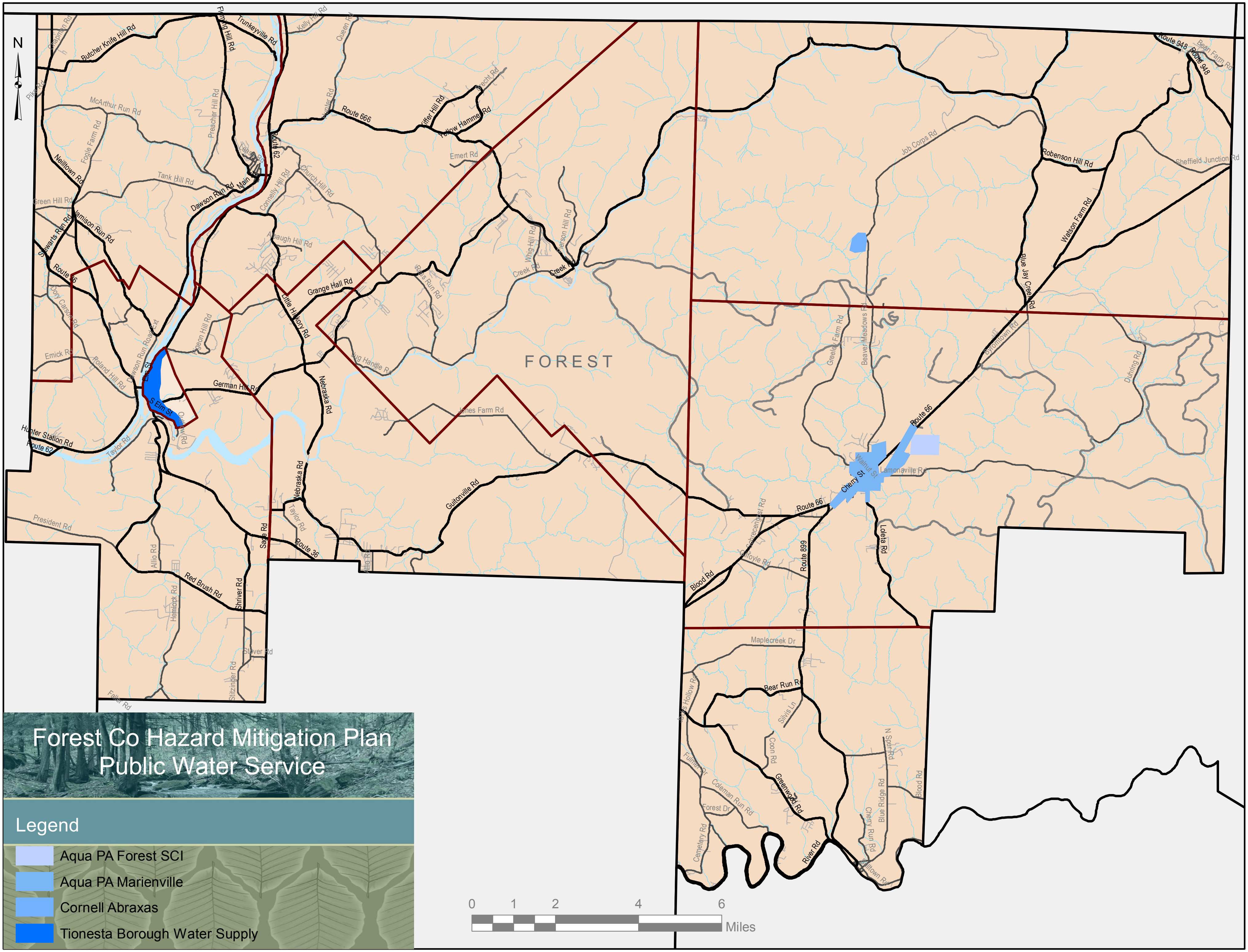
N

1 in = 3 miles

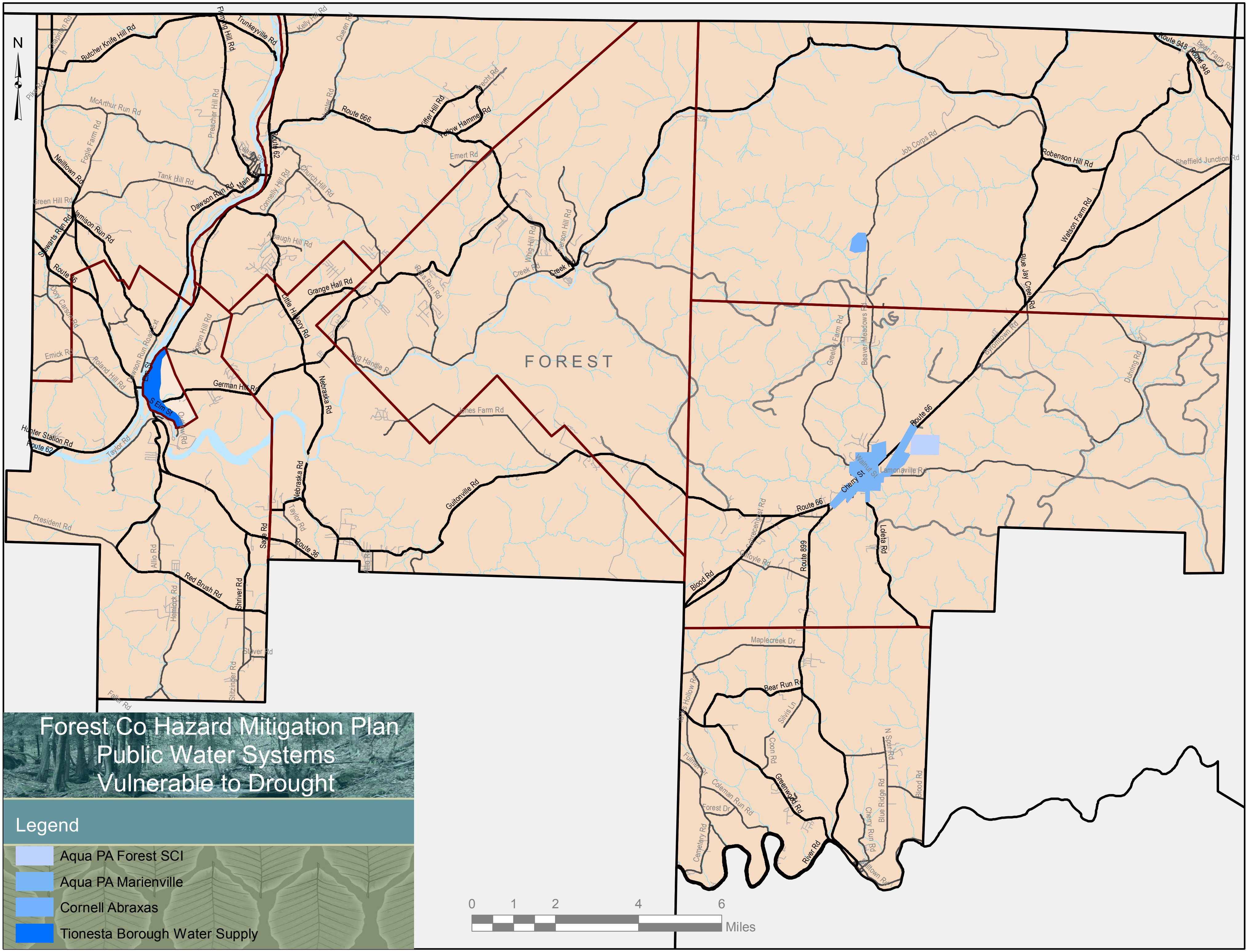

N
FOREST
Route 66
Route 36
Route 62
Route 666
Route 948
Route 399
Route 67
Grange Hall Rd
German Hill Rd
Nebraska Rd
Guiltonville Rd
Red Brush Rd
Blood Rd
Bear Run Rd
Greenwood Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Lolete Rd
Lemonville Rd
Tionesta
Forest Co Hazard Mitigation Plan
Landslide Vulnerability Basemap
Legend
Slight Slope < 8%
Moderate Slope 8% to 15%
Severe Slope > 15%
Tionesta Dam
0 1 2 4 6
Miles


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
JENKS TWP
GREEN TWP
BARNETT TWP
TIONESTA BORO
TIONESTA TWP
Forest County
Landslide Vulnerability Areas Overlay
0 1 2 4 6
Miles
1 in = 2.84 miles
N
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Structures
Landslide Vulnerable Areas

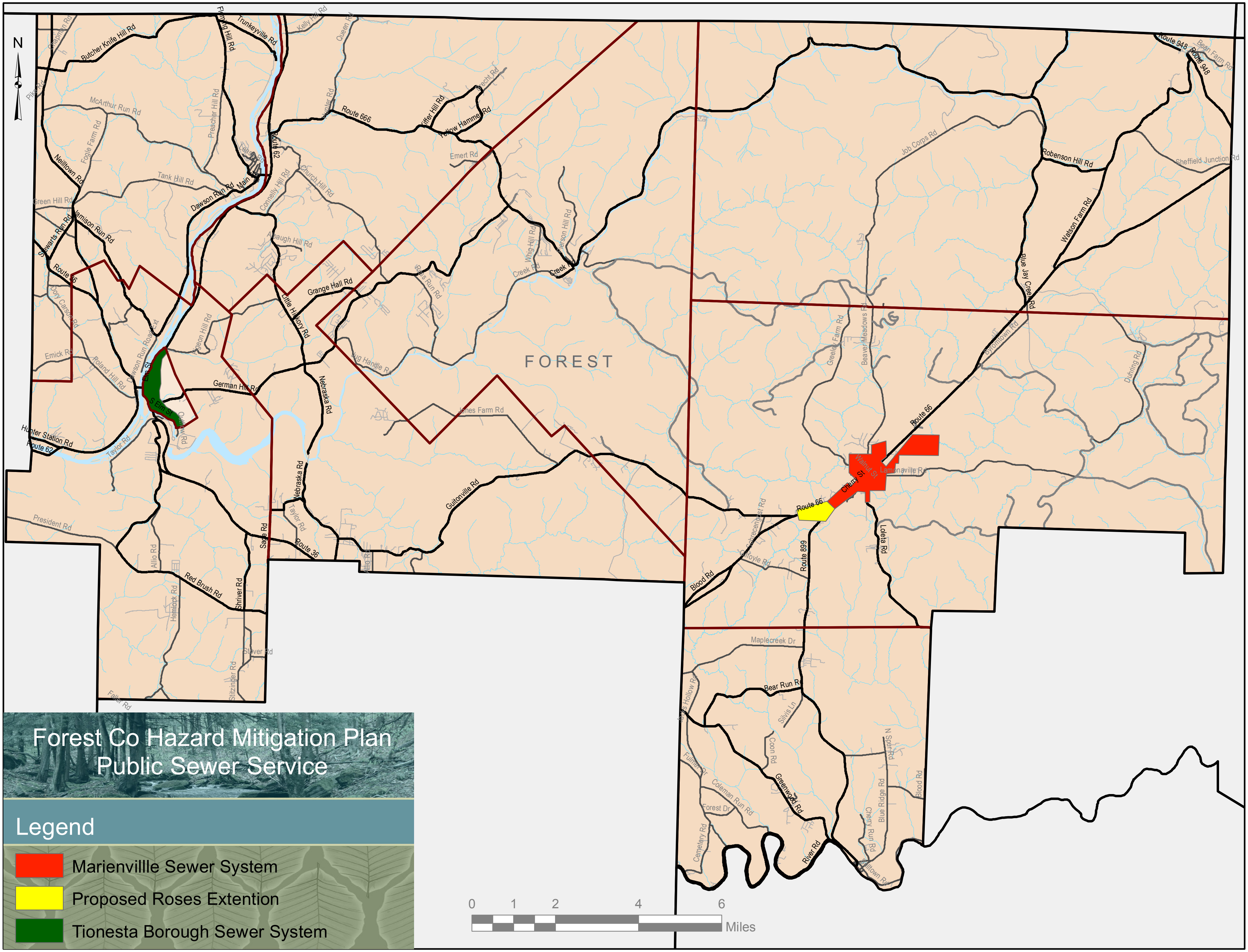

N
FOREST
Forest Co Hazard Mitigation Plan
Farmland Drought Vulnerable
Legend
Prime Farmland Soils
Soils of Statewide Importance
Not Prime Farmland Soils
Gravel Pits
0 1 2 4 6
Miles



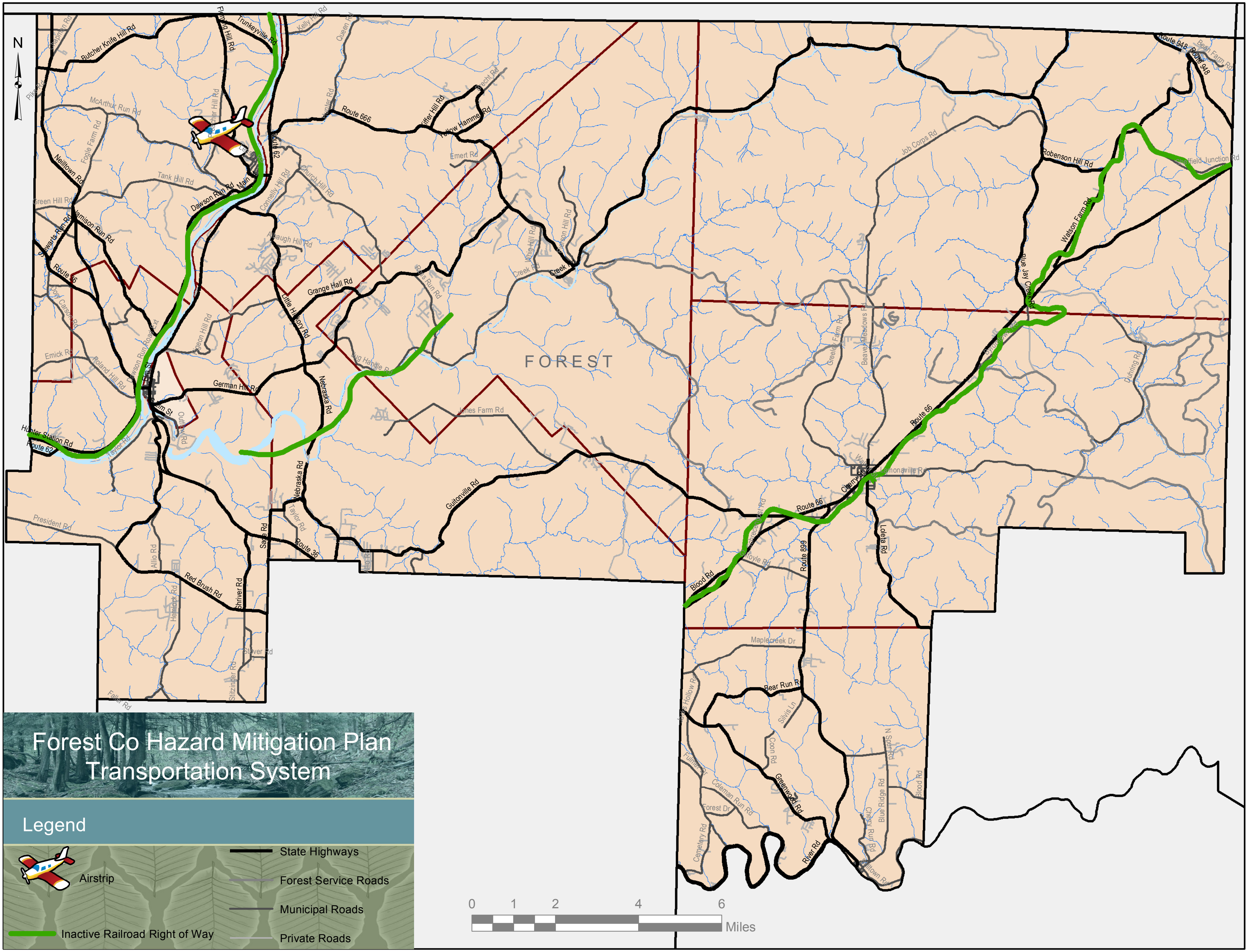
Forest Co Hazard Mitigation Plan
Public Water Service
Legend
Aqua PA Forest SCI
Aqua PA Marienville
Cornell Abraxas
Tionesta Borough Water Supply
N
0 1 2 4 6
Miles
FOREST
Butcher Knife Hill Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Hunter Rd
Route 666
Kiffer Hill Rd
Yellow Hammer Rd
Brecht Rd
Emert Rd
Route 62
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Stewarts Run Rd
Jamison Run Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Emick Rd
Roland Hill Rd
Dawson Run Road Ext
Pigeon Hill Rd
Elm St
S Elm St
German Hill Rd
Jug Handle Rd
Nebraska Rd
Jones Farm Rd
Hunter Station Rd
Route 62
Taylor Rd
Guitonville Rd
President Rd
Allio Rd
Red Brush Rd
Hemlock Rd
Shriver Rd
Sage Rd
Stover Rd
Stitzinger Rd
Faller Rd
Job Corps Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Route 948
Bean Farm Rd
Sheffield Junction Rd
Greeley Farm Rd
Beaver Meadows Rd
Byromtown Rd
Duhring Rd
Route 66
Walnut St
Cherry St
Lamonaville Rd
Loleta Rd
Schrecengost Rd
Gilfoyle Rd
Route 899
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Greenwood Rd
Forest Dr
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Belltown Rd

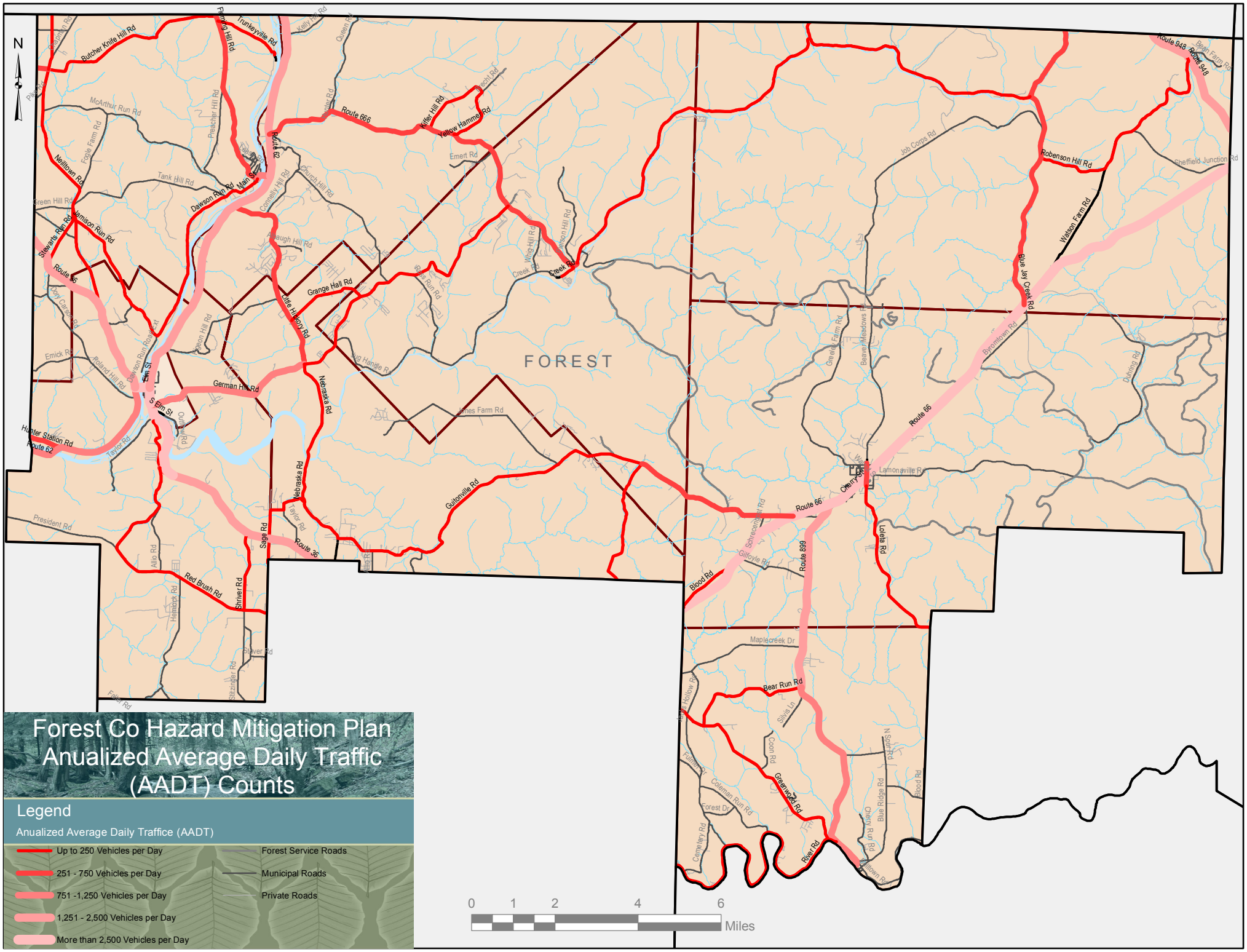


Forest Co Hazard Mitigation Plan
Public Water Systems
Vulnerable to Drought
Legend
Aqua PA Forest SCI
Aqua PA Marienville
Cornell Abraxas
Tionesta Borough Water Supply
N
0
1
2
4
6
Miles
FOREST
Butcher Knife Hill Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Hunter Rd
Route 666
Yellow Hammer Rd
Brecht Rd
Emert Rd
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Route 62
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Jamison Run Rd
Stewarts Run Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Pigeon Hill Rd
Dawson Run Road Ext
Emick Rd
Roland Hill Rd
Elm St
S Elm St
German Hill Rd
Jug Handle Rd
Nebraska Rd
Jones Farm Rd
Hunter Station Rd
Route 62
Taylor Rd
Guitonville Rd
President Rd
Allio Rd
Sage Rd
Route 36
Red Brush Rd
Hemlock Rd
Shriver Rd
Stover Rd
Stitzinger Rd
Faller Rd
Job Corps Rd
Robenson Hill Rd
Sheffield Junction Rd
Route 948
Bean Farm Rd
Watson Farm Rd
Blue Jay Creek Rd
Byromtown Rd
Greeley Farm Rd
Beaver Meadows Rd
Duhring Rd
Route 66
Walnut St
Cherry St
Lamonaville Rd
Loleta Rd
Route 899
Gilfoyle Rd
Blood Rd
Maplecreek Dr
Bear Run Rd
Silvis Ln
Jacks Hollow Rd
Coon Rd
Fulmer Dr
Coleman Run Rd
Greenwood Rd
Forest Dr
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Blood Rd
Belltown Rd



Forest Co Hazard Mitigation Plan
Public Sewer Service
Legend
Marienvillle Sewer System
Proposed Roses Extention
Tionesta Borough Sewer System
0 1 2 4 6
Miles
N
FOREST
Chapman Rd
Butcher Knife Hill Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Hunter Rd
Route 666
Kiffer Hill Rd
Brecht Rd
Yellow Hammer Rd
Emert Rd
Route 62
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Jamison Run Rd
Stewarts Run Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Pigeon Hill Rd
Dawson Run Road Ext
Emick Rd
Roland Hill Rd
Elm St
S Elm St
German Hill Rd
Jug Handle Rd
Nebraska Rd
Jones Farm Rd
Hunter Station Rd
Taylor Rd
President Rd
Allio Rd
Red Brush Rd
Hemlock Rd
Shriver Rd
Sage Rd
Stover Rd
Stitzinger Rd
Faller Rd
Guitonville Rd
Job Corps Rd
Robenson Hill Rd
Route 948
Bean Farm Rd
Sheffield Junction Rd
Watson Farm Rd
Blue Jay Creek Rd
Byromtown Rd
Greeley Farm Rd
Beaver Meadows Rd
Duhring Rd
Route 66
Walnut St
Cherry St
Lamonaville Rd
Loleta Rd
Route 899
Schreceng...st Rd
Gilfoyle Rd
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Greenwood Rd
Forest Dr
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Belltown Rd


Forest Co Hazard Mitigation Plan
Transportation System
Legend
Airstrip
Inactive Railroad Right of Way
State Highways
Forest Service Roads
Municipal Roads
Private Roads
FOREST
N
0
1
2
4
6
Miles
Butcher Knife Hill Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Neilltown Rd
Green Hill Rd
Stewarts Run Rd
Jamison Run Rd
Tank Hill Rd
Dawson Run Rd
Main St
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Hunter Rd
Route 666
Route 62
Preacher Hill Rd
Connelly Hill Rd
Church Hill Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Emick Rd
Roland Hill Rd
Dawson Run Road Ext
Pigeon Hill Rd
Elm St
German Hill Rd
Outflow Rd
Little Hickory Rd
Grange Hall Rd
Nebraska Rd
Jug Handle Rd
Hunter Station Rd
Taylor Rd
President Rd
Allio Rd
Hemlock Rd
Red Brush Rd
Shriver Rd
Sage Rd
Stover Rd
Stitzinger Rd
Faller Rd
Kiffer Hill Rd
Brecht Rd
Yellow Hammer Rd
Emert Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Jones Farm Rd
Guitonville Rd
Route 66
Cherry St
Walnut St
Lamonaville Rd
Greeley Farm Rd
Beaver Meadows Rd
Job Corps Rd
Robenson Hill Rd
Blue Jay Creek Rd
Watson Farm Rd
Sheffield Junction Rd
Route 948
Bean Farm Rd
Byromtown Rd
Duhring Rd
Loleta Rd
Route 899
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Forest Dr
Cemetery Rd
Greenwood Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Mill Town Rd

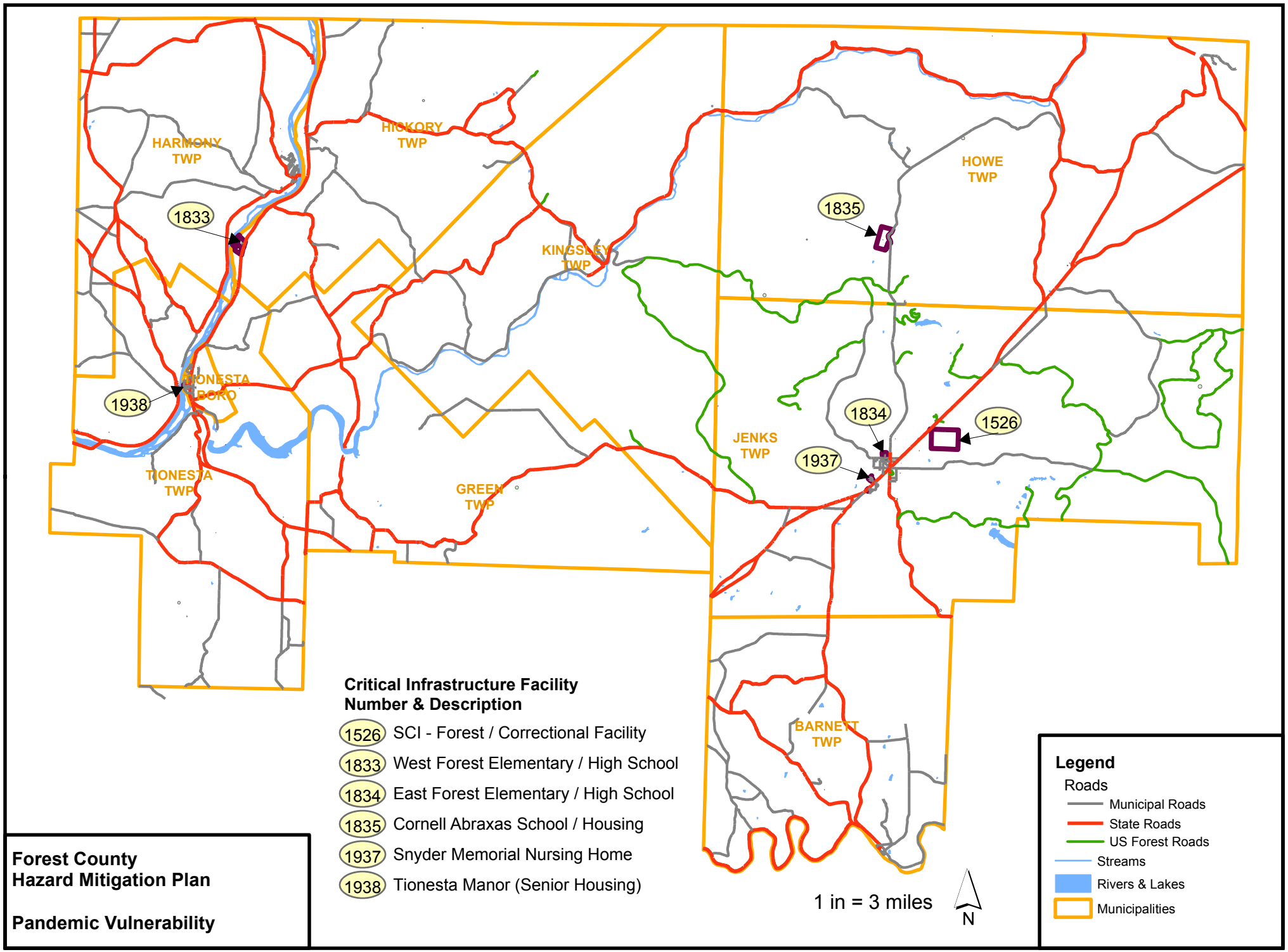


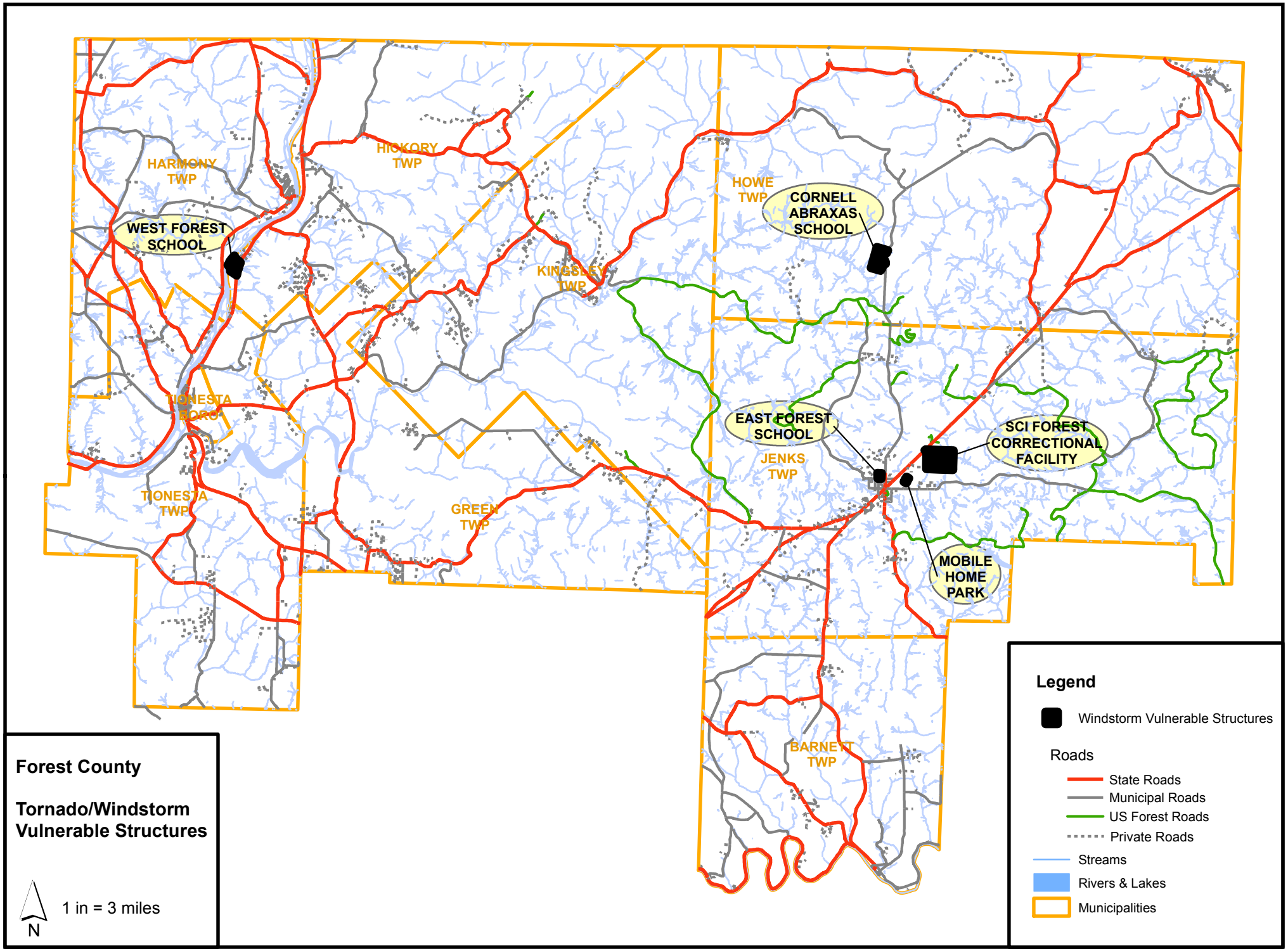
Forest Co Hazard Mitigation Plan Anualized Average Daily Traffic (AADT) Counts

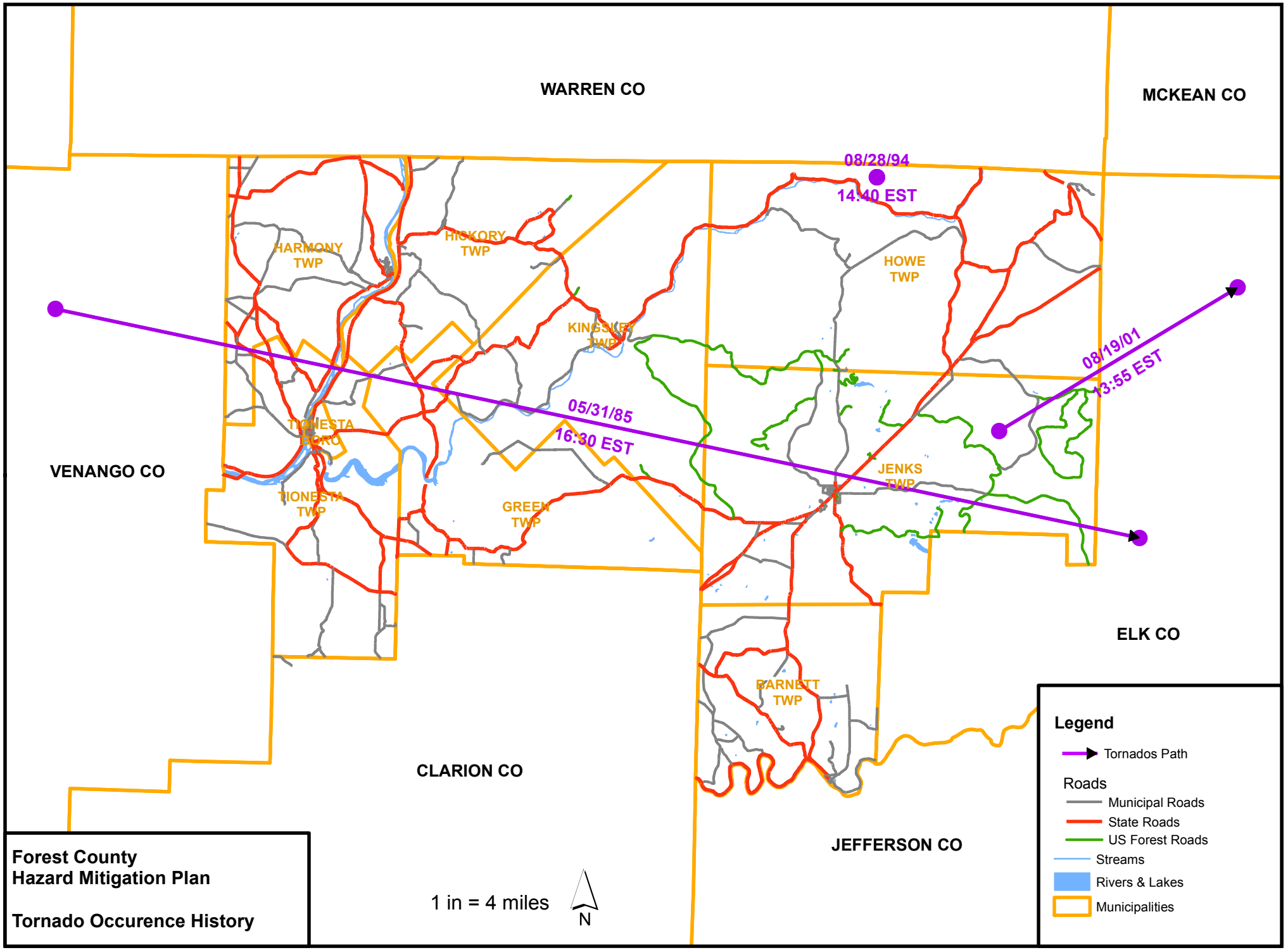
Legend

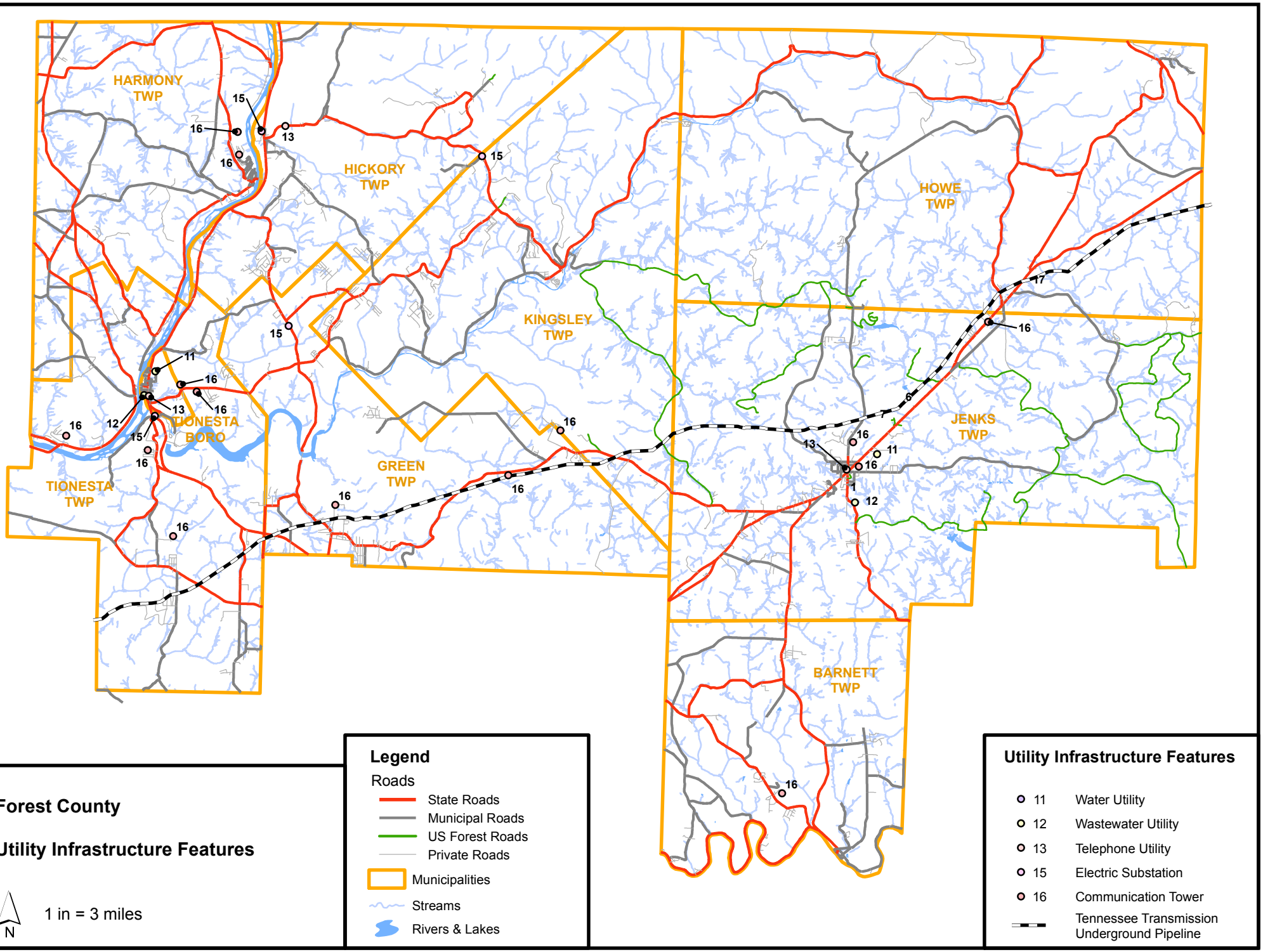
Anualized Average Daily Traffice (AADT)

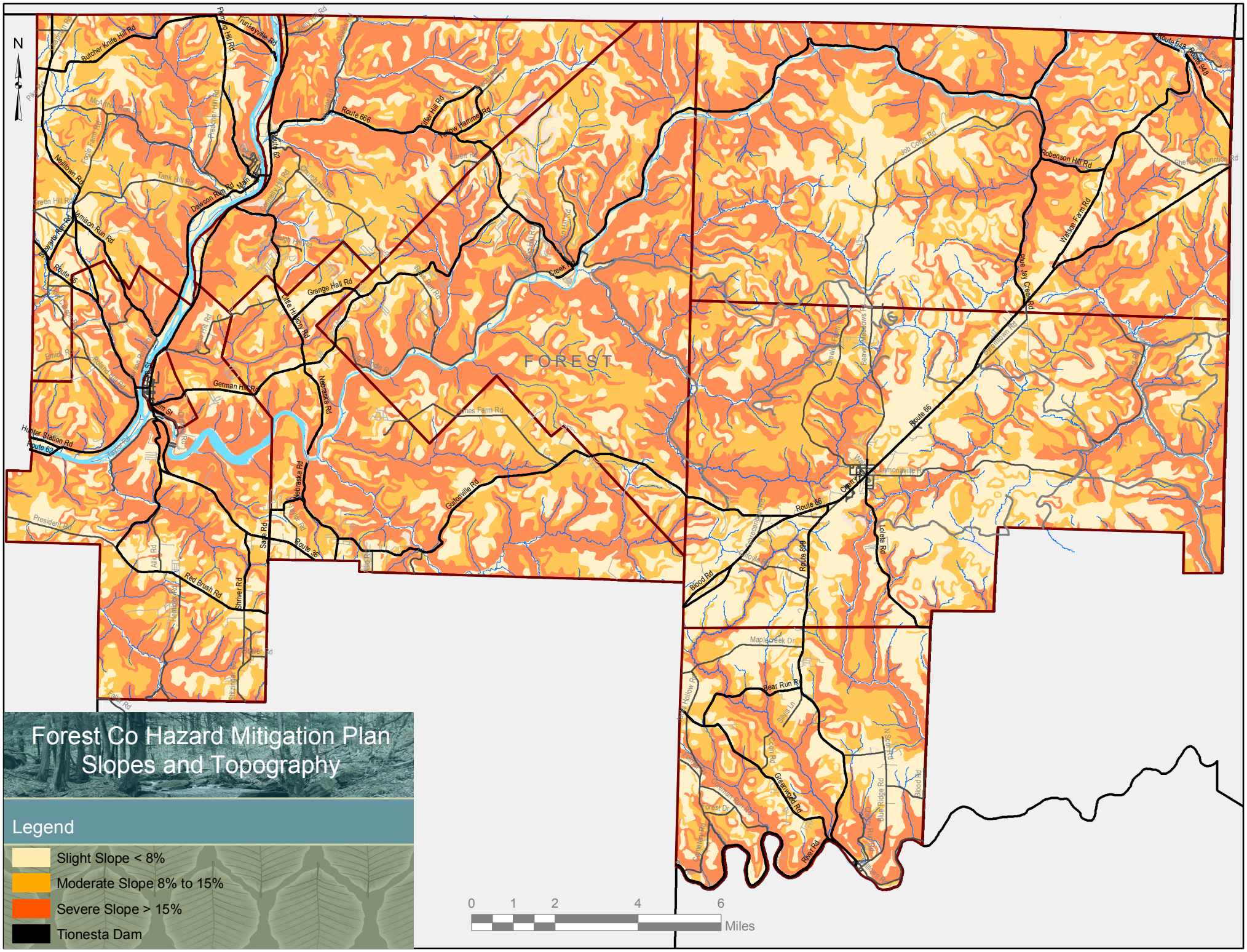
- Up to 250 Vehicles per Day
- 251 - 750 Vehicles per Day
- 751 -1,250 Vehicles per Day
- 1,251 - 2,500 Vehicles per Day
- More than 2,500 Vehicles per Day
- Forest Service Roads
- Municipal Roads
- Private Roads

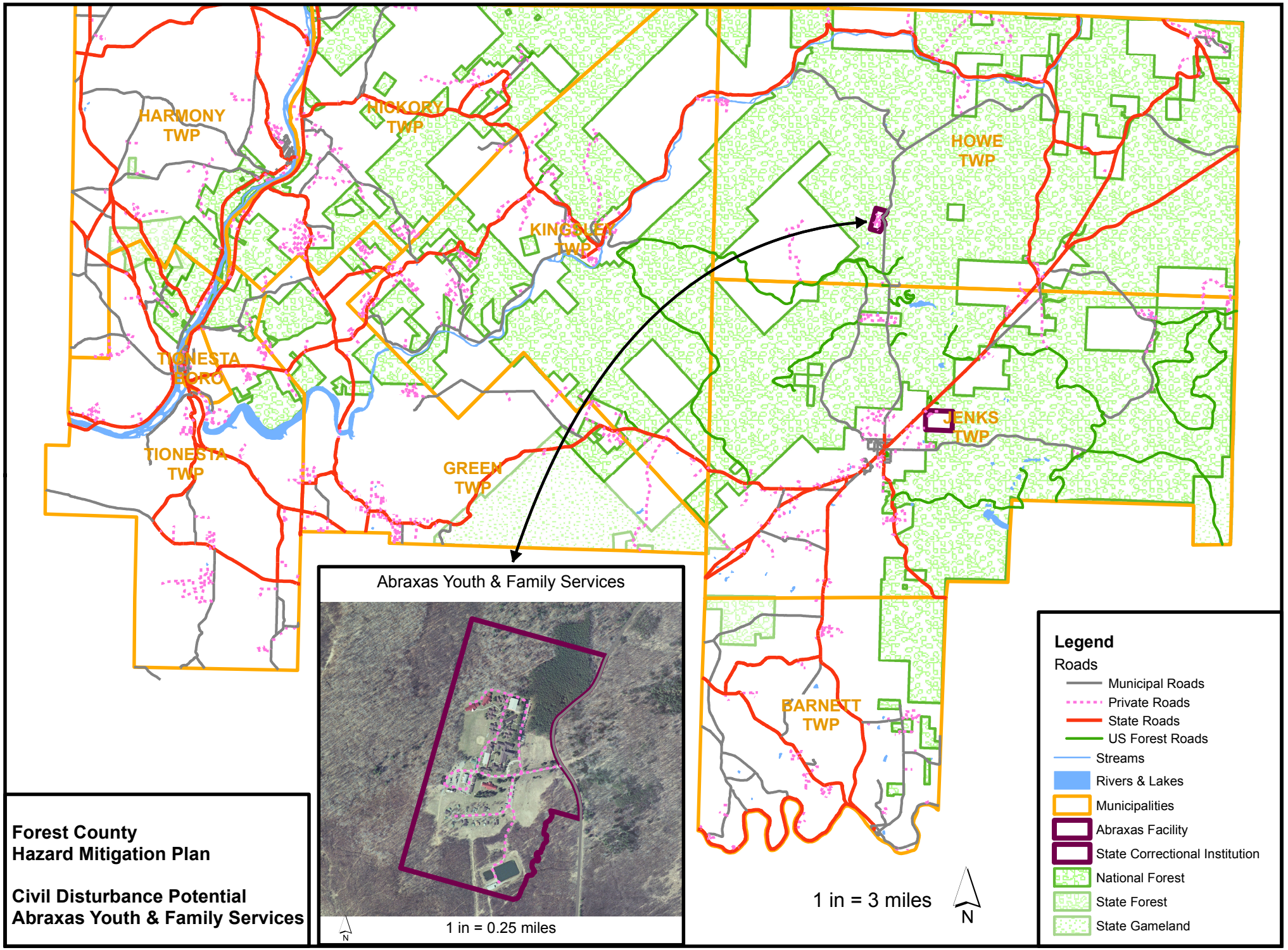

HARMONY TWP
HICKORY TWP
HOWE TWP
KINGSLEY TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
1833
1835
1938
1834
1526
1937
Critical Infrastructure Facility
Number & Description
1526 SCI - Forest / Correctional Facility
1833 West Forest Elementary / High School
1834 East Forest Elementary / High School
1835 Cornell Abraxas School / Housing
1937 Snyder Memorial Nursing Home
1938 Tionesta Manor (Senior Housing)
Forest County
Hazard Mitigation Plan
Pandemic Vulnerability
1 in = 3 miles
N
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities

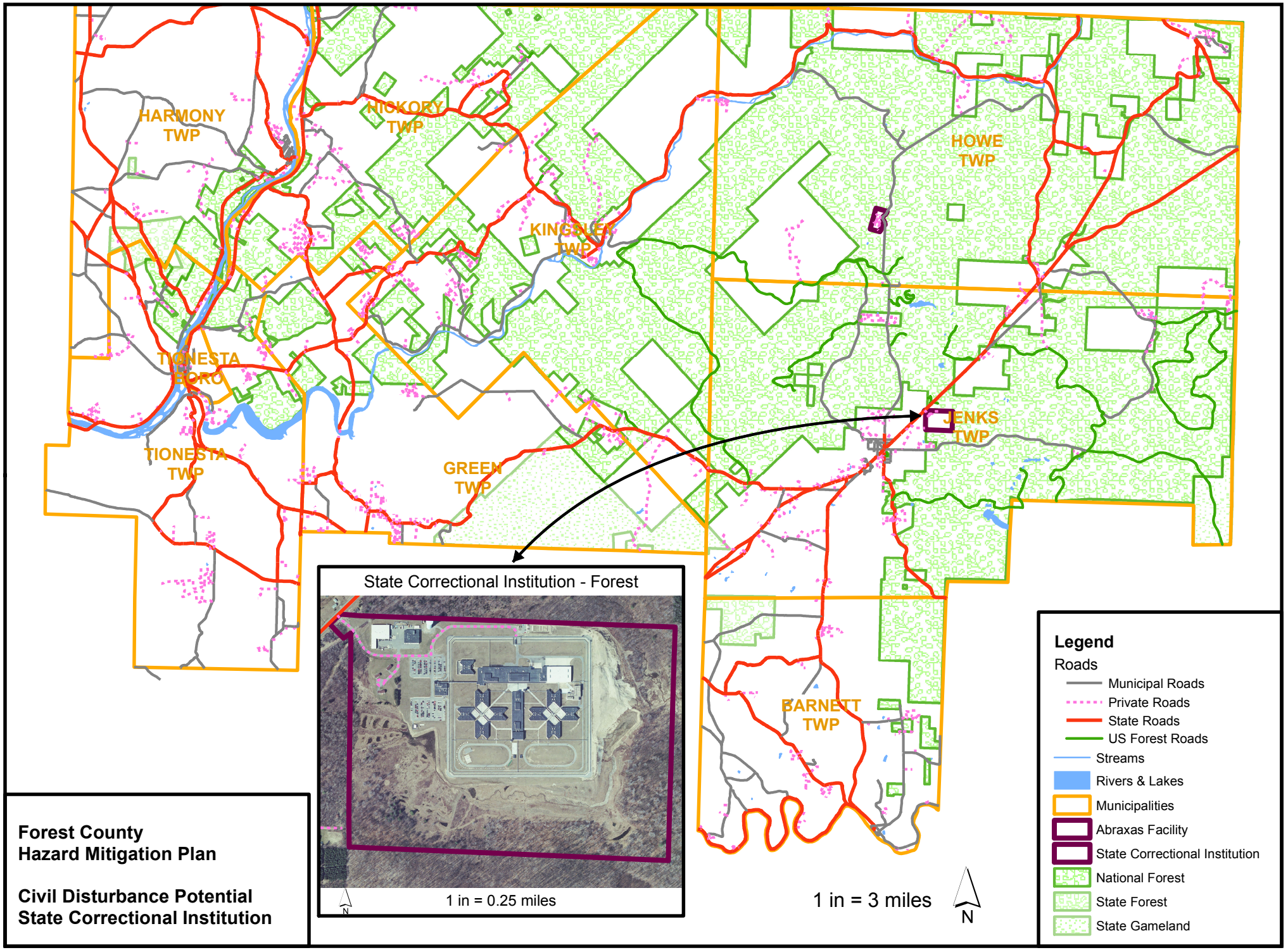

HARMONY TWP
HICKORY TWP
HOWE TWP
CORNELL ABRAXAS SCHOOL
WEST FOREST SCHOOL
KINGSLEY TWP
TIONESTA BORO
EAST FOREST SCHOOL
SCI FOREST CORRECTIONAL FACILITY
JENKS TWP
TIONESTA TWP
GREEN TWP
MOBILE HOME PARK
BARNETT TWP
Forest County
Tornado/Windstorm Vulnerable Structures
1 in = 3 miles
N
Legend
Windstorm Vulnerable Structures
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Streams
Rivers & Lakes
Municipalities

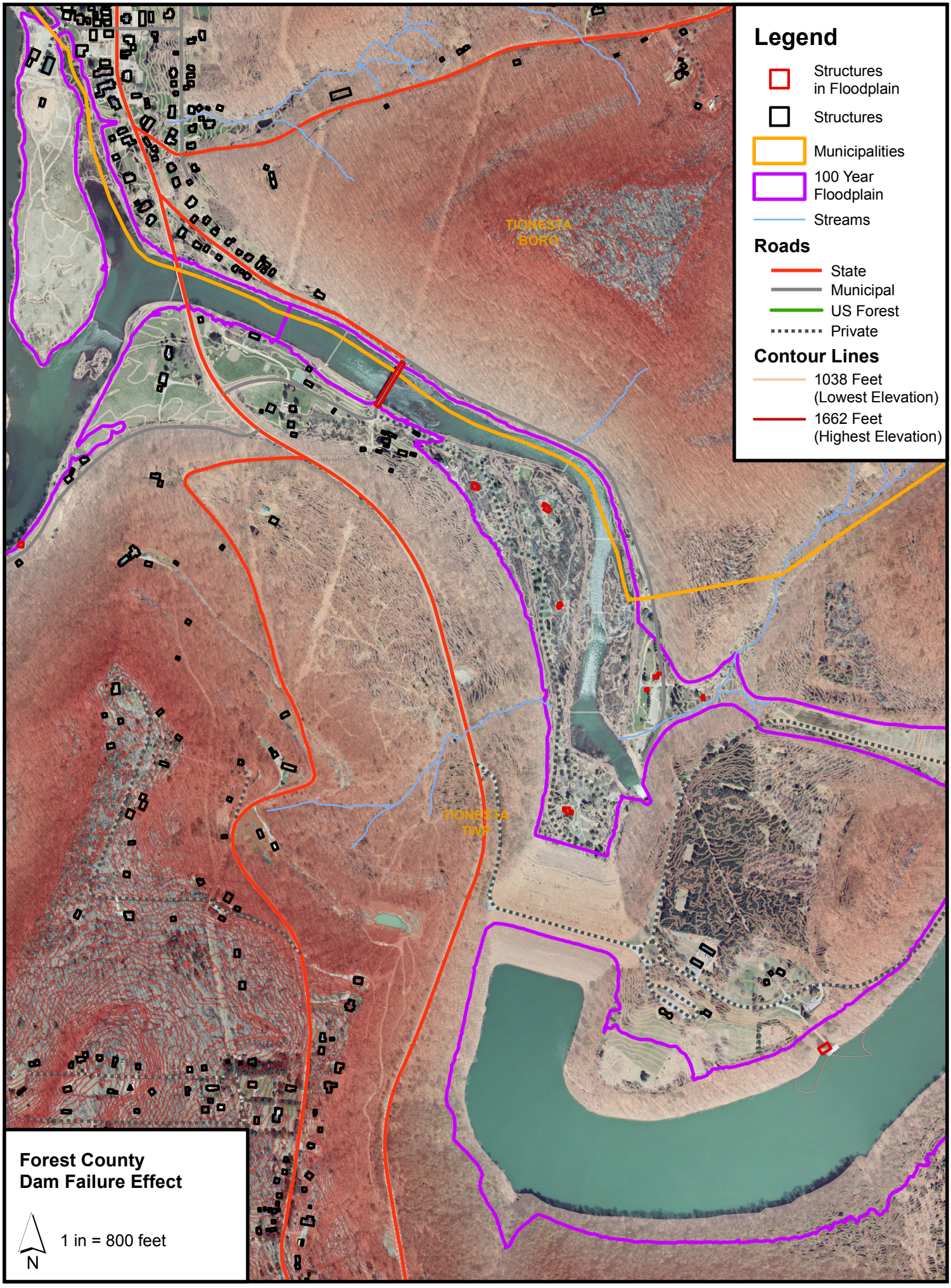

WARREN CO
MCKEAN CO
VENANGO CO
CLARION CO
JEFFERSON CO
ELK CO
HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
08/28/94
14:40 EST
05/31/85
16:30 EST
08/19/01
13:55 EST
Forest County
Hazard Mitigation Plan
Tornado Occurence History
1 in = 4 miles
N
Legend
Tornados Path
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities

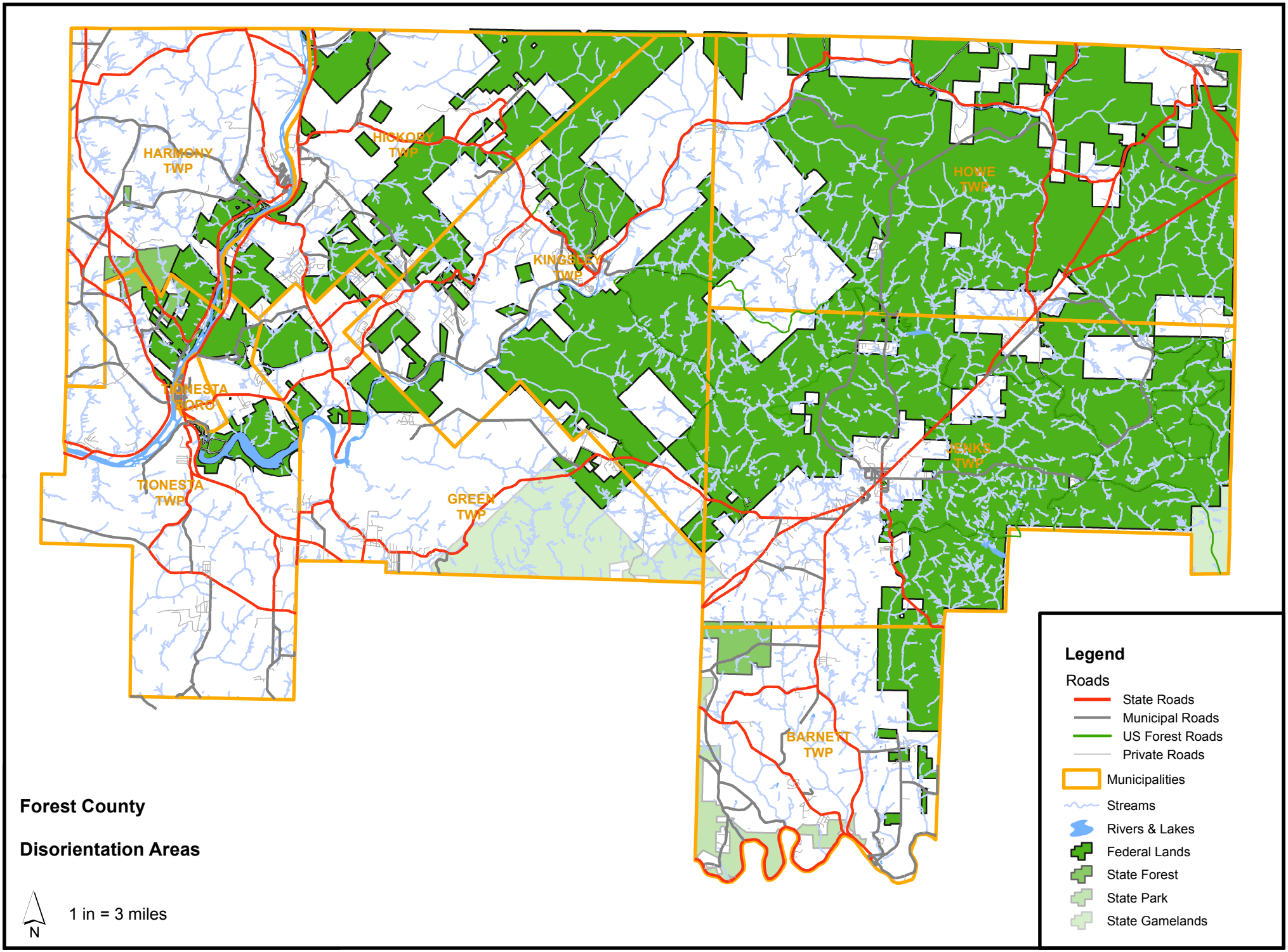

HARMONY TWP
HICKORY TWP
HOWE TWP
KINGSLEY TWP
JENKS TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
BARNETT TWP
Forest County
Utility Infrastructure Features
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
Utility Infrastructure Features
11 Water Utility
12 Wastewater Utility
13 Telephone Utility
15 Electric Substation
16 Communication Tower
Tennessee Transmission Underground Pipeline

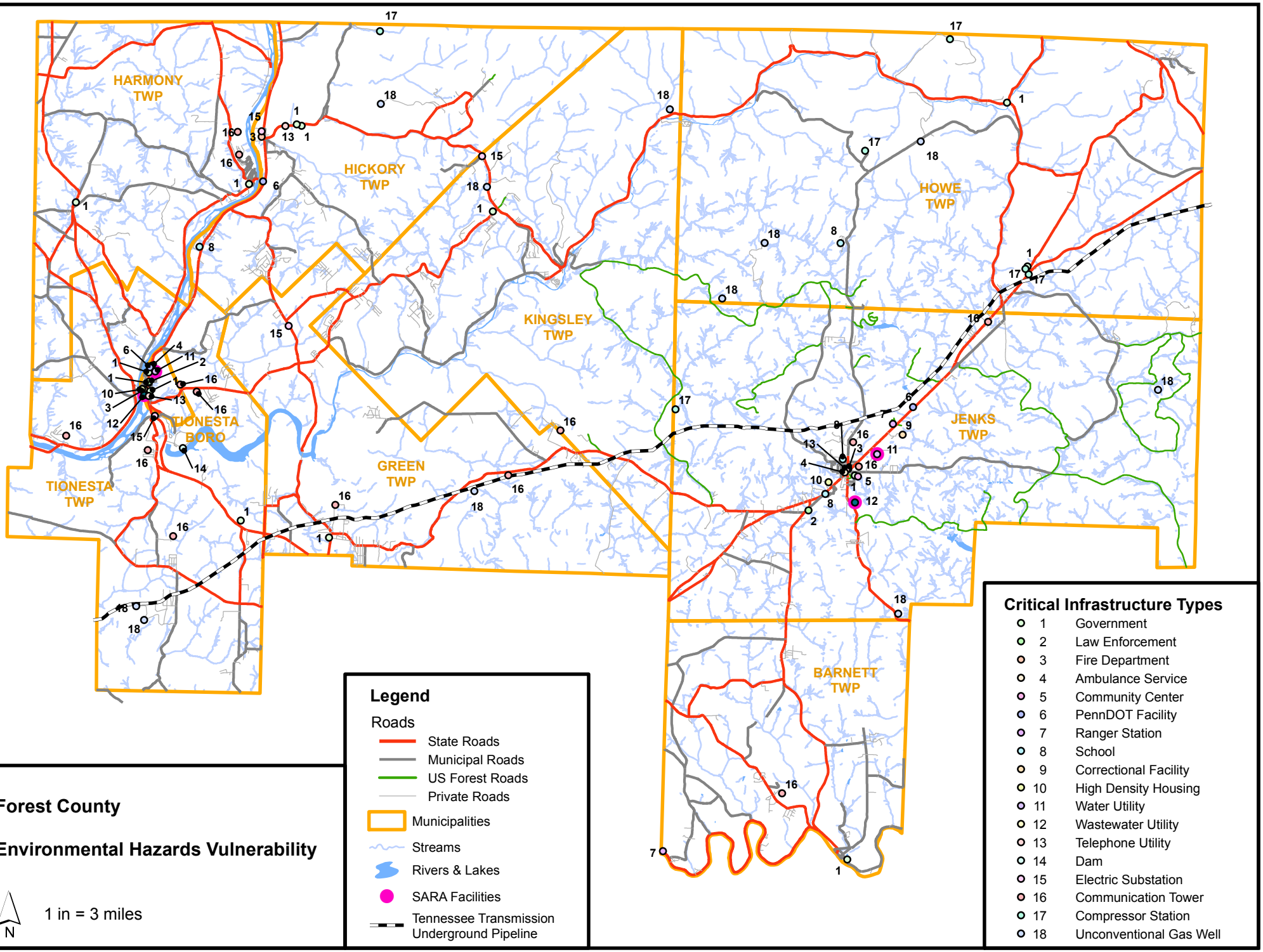

N
FOREST
Route 66
Route 36
Route 62
Route 666
Route 399
Route 948
Route 67
Grange Hall Rd
German Hill Rd
Nebraska Rd
Guiltonville Rd
Blood Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Greenwood Rd
Rear Run Rd
Red Brush Rd
Dawson Run Rd
Hunter Station Rd
Forest Co Hazard Mitigation Plan
Slopes and Topography
Legend
Slight Slope < 8%
Moderate Slope 8% to 15%
Severe Slope > 15%
Tionesta Dam
0 1 2 4 6
Miles

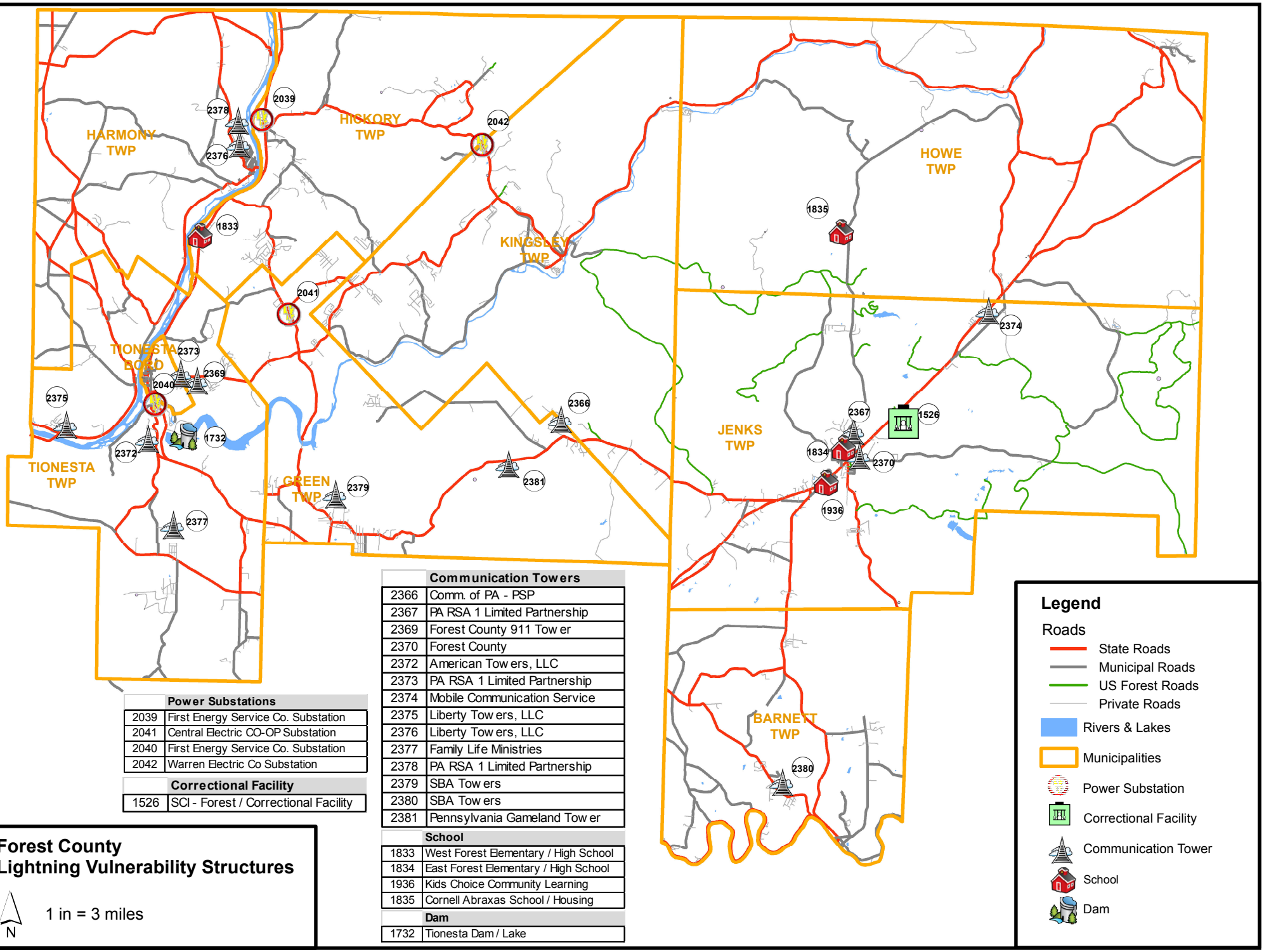

HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
Abraxas Youth & Family Services
1 in = 0.25 miles
N
1 in = 3 miles
N
Legend
Roads
Municipal Roads
Private Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Abraxas Facility
State Correctional Institution
National Forest
State Forest
State Gameland
Forest County
Hazard Mitigation Plan
Civil Disturbance Potential
Abraxas Youth & Family Services


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
State Correctional Institution - Forest
1 in = 0.25 miles
1 in = 3 miles
N
Legend
Roads
Municipal Roads
Private Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Abraxas Facility
State Correctional Institution
National Forest
State Forest
State Gameland
Forest County
Hazard Mitigation Plan
Civil Disturbance Potential
State Correctional Institution


Legend
Structures in Floodplain
Structures
Municipalities
100 Year Floodplain
Streams
Roads
State
Municipal
US Forest
Private
Contour Lines
1038 Feet (Lowest Elevation)
1662 Feet (Highest Elevation)
TIONESTA BORO
TIONESTA TWP
Forest County
Dam Failure Effect
1 in = 800 feet
N


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
Forest County
Disorientation Areas
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
Federal Lands
State Forest
State Park
State Gamelands


HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
JENKS TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
BARNETT TWP
Forest County
Environmental Hazards Vulnerability
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
SARA Facilities
Tennessee Transmission Underground Pipeline
Critical Infrastructure Types
1 Government
2 Law Enforcement
3 Fire Department
4 Ambulance Service
5 Community Center
6 PennDOT Facility
7 Ranger Station
8 School
9 Correctional Facility
10 High Density Housing
11 Water Utility
12 Wastewater Utility
13 Telephone Utility
14 Dam
15 Electric Substation
16 Communication Tower
17 Compressor Station
18 Unconventional Gas Well



	Power Substations
2039	First Energy Service Co. Substation
2041	Central Electric CO-OP Substation
2040	First Energy Service Co. Substation
2042	Warren Electric Co Substation

	Correctional Facility
1526	SCI - Forest / Correctional Facility

	Communication Towers
2366	Comm. of PA - PSP
2367	PA RSA 1 Limited Partnership
2369	Forest County 911 Tower
2370	Forest County
2372	American Towers, LLC
2373	PA RSA 1 Limited Partnership
2374	Mobile Communication Service
2375	Liberty Towers, LLC
2376	Liberty Towers, LLC
2377	Family Life Ministries
2378	PA RSA 1 Limited Partnership
2379	SBA Towers
2380	SBA Towers
2381	Pennsylvania Gameland Tower

	School
1833	West Forest Elementary / High School
1834	East Forest Elementary / High School
1936	Kids Choice Community Learning
1835	Cornell Abraxas School / Housing

	Dam
1732	Tionesta Dam / Lake

Legend

Roads
- State Roads
- Municipal Roads
- US Forest Roads
- Private Roads

Rivers & Lakes

Municipalities

Power Substation

Correctional Facility

Communication Tower

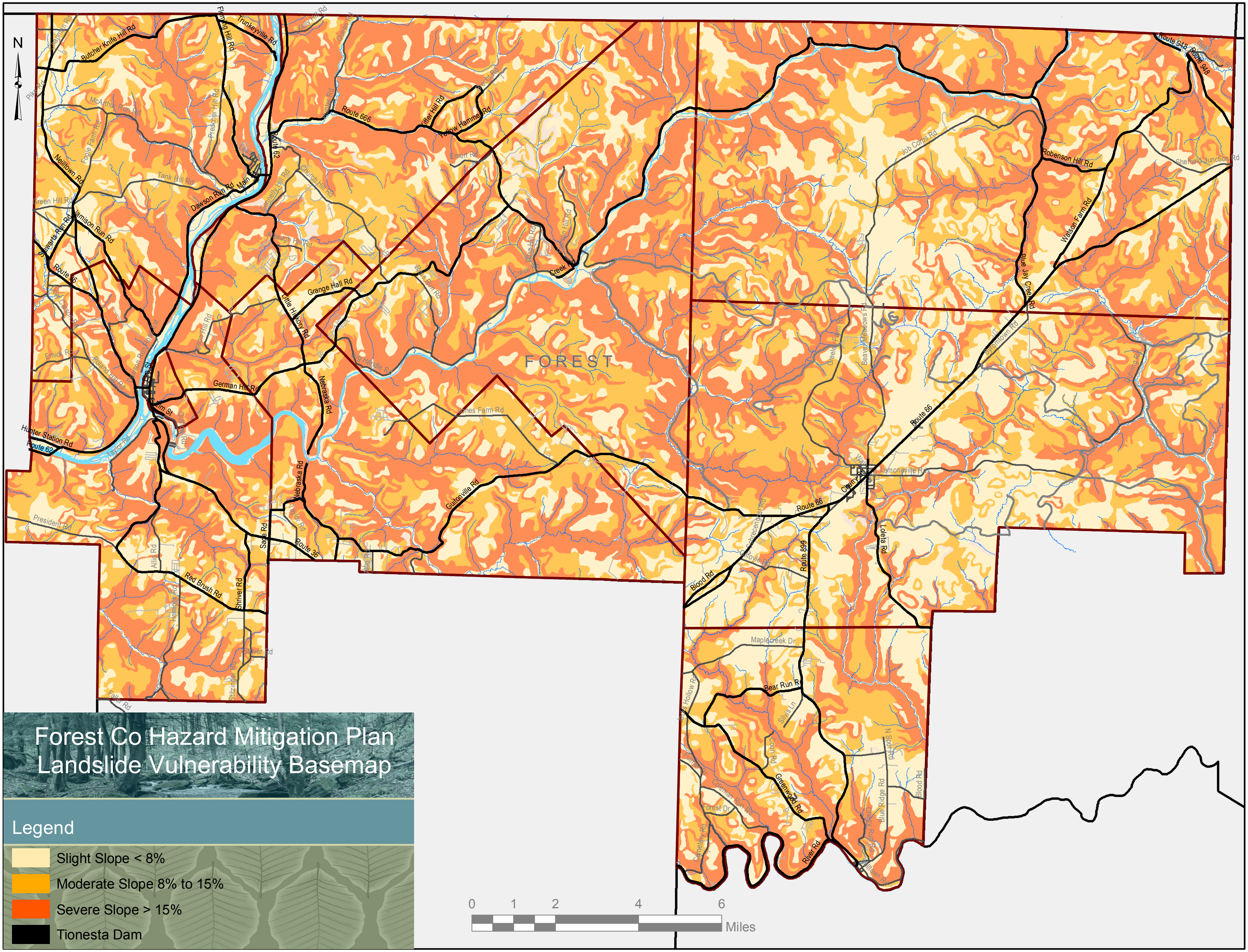
School

Dam

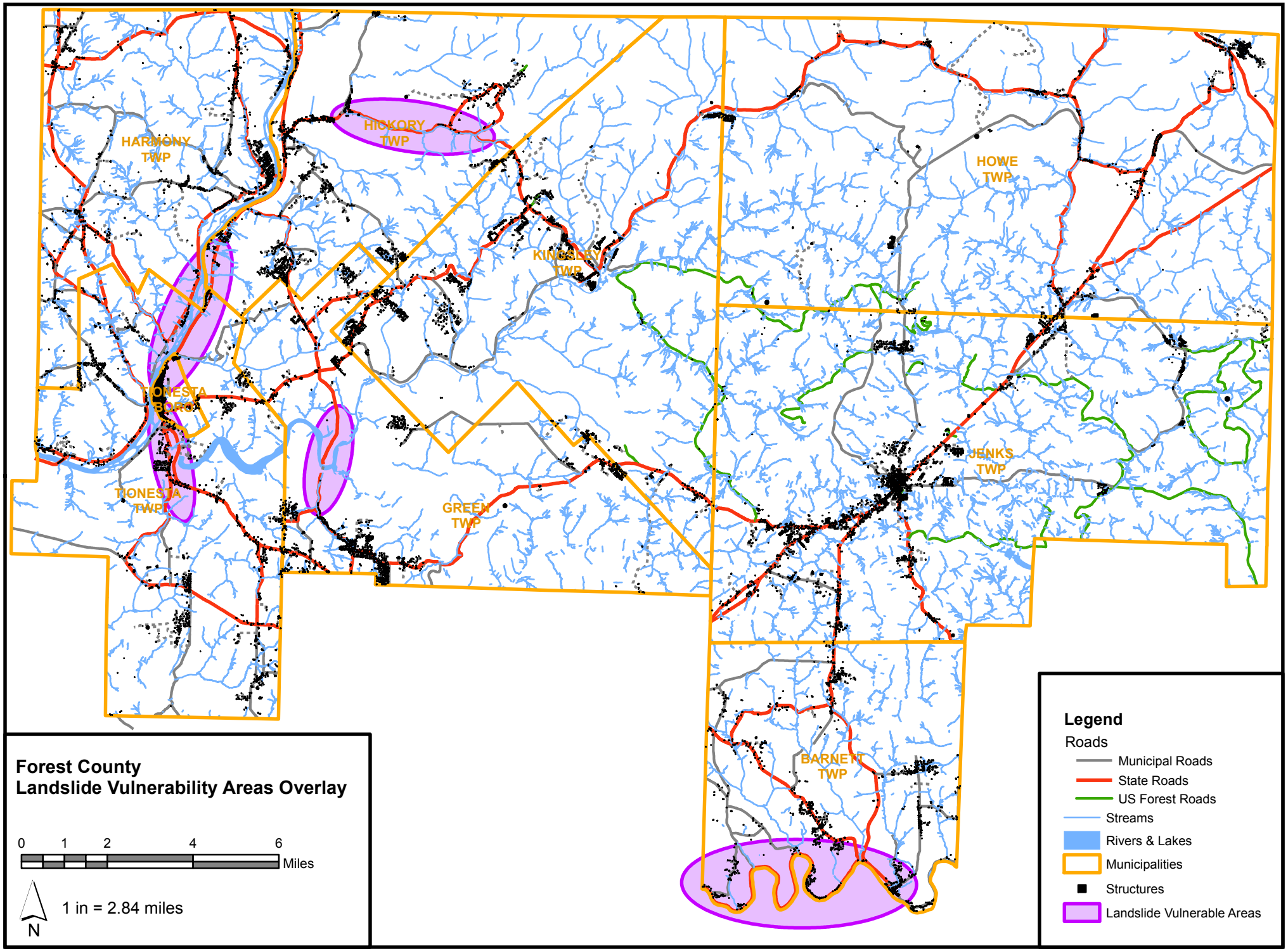
Forest County
Lightning Vulnerability Structures

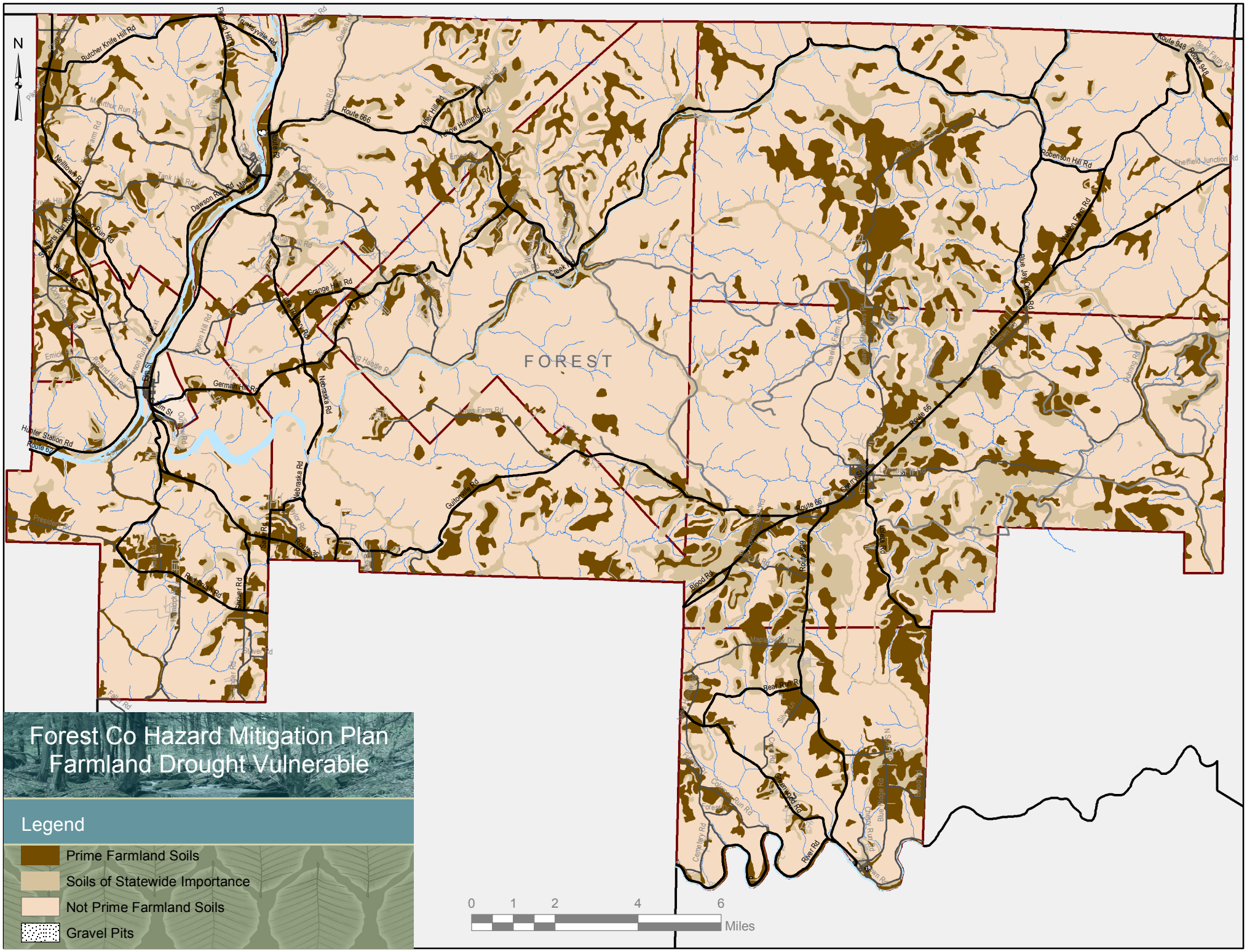
N

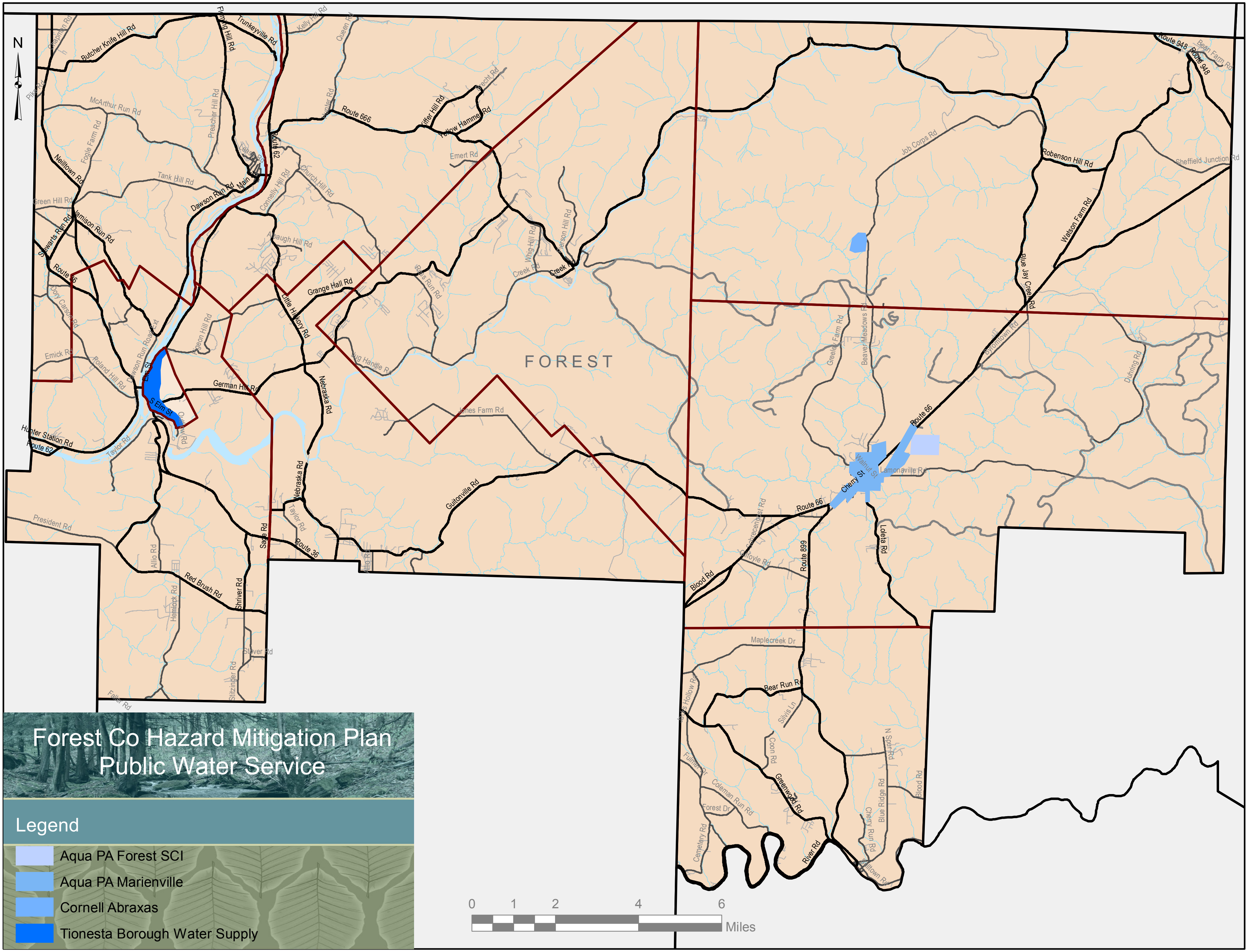
1 in = 3 miles

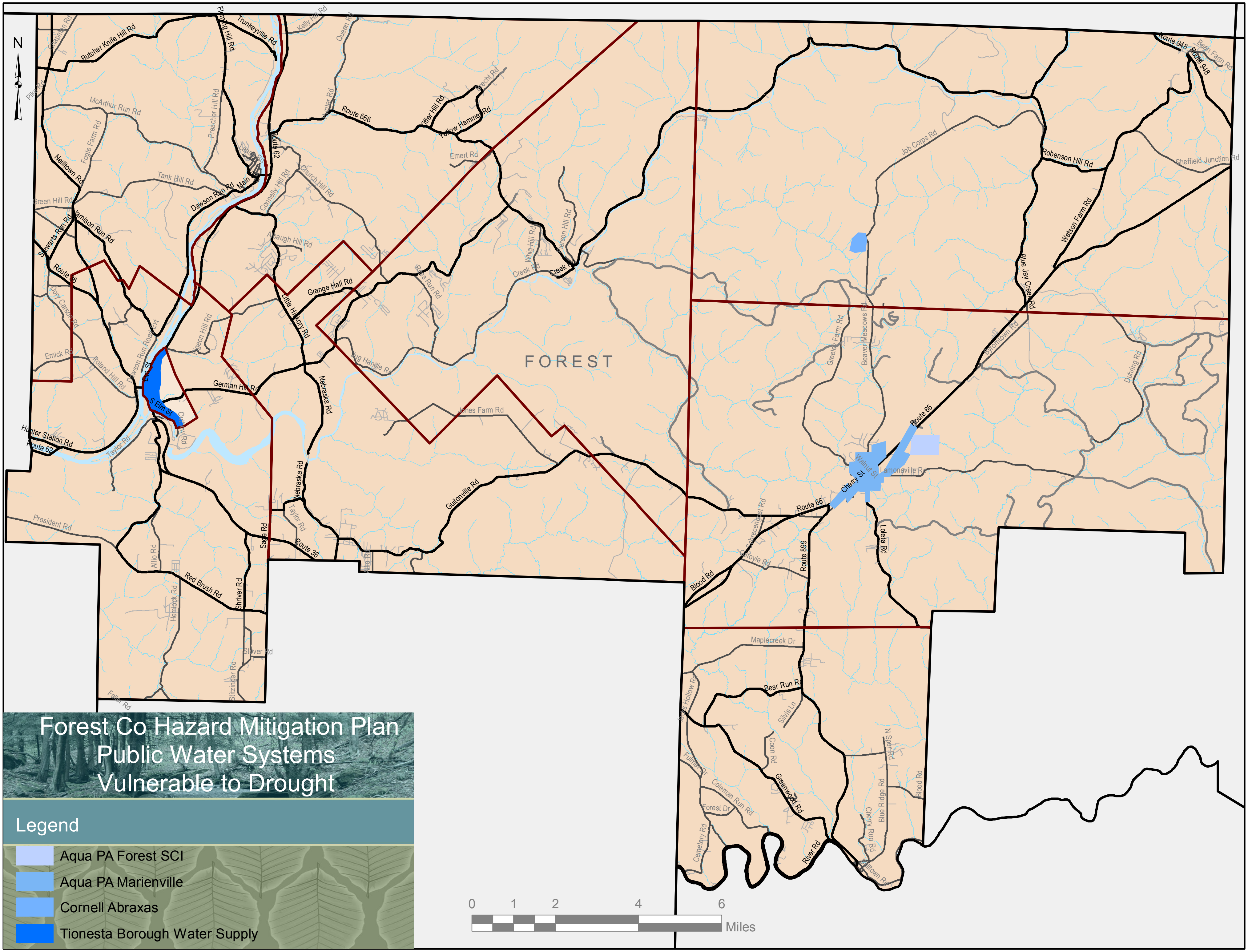


Forest Co Hazard Mitigation Plan
Landslide Vulnerability Basemap
Legend
Slight Slope < 8%
Moderate Slope 8% to 15%
Severe Slope > 15%
Tionesta Dam
0 1 2 4 6
Miles
N
FOREST
Butcher Knife Hill Rd
Chapman Rd
Pike Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
McArthur Run Rd
Preacher Hill Rd
Fogle Farm Rd
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Route 62
Route 666
Hunter Rd
Kiffer Hill Rd
Yellow Hammer Rd
Brecht Rd
Emert Rd
Church Hill Rd
Connelly Hill Rd
Green Hill Rd
Jamison Run Rd
Stewarts Run Rd
Route 36
Albaugh Hill Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Dory Carson Rd
Pigeon Hill Rd
Dawson Run Road Ext
Emick Rd
Poland Hill Rd
Elm St
German Hill Rd
Nebraska Rd
Jug Handle Rd
Jones Farm Rd
S Elm St
Outflow Rd
Hunter Station Rd
Taylor Rd
President Rd
Guitonville Rd
Allio Rd
Red Brush Rd
Shriver Rd
Sage Rd
Hemlock Rd
Stover Rd
Stitzinger Rd
Faller Rd
Job Corps Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Route 948
Bean Farm Rd
Sheffield Junction Rd
Greeley Farm Rd
Beaver Meadows Rd
Byromtown Rd
Duhring Rd
Route 66
Lamonaville Rd
Cherry St
Loleta Rd
Schreceng ost Rd
Gilfoyle Rd
Route 899
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Forest Dr
Greenwood Rd
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Belltown Rd

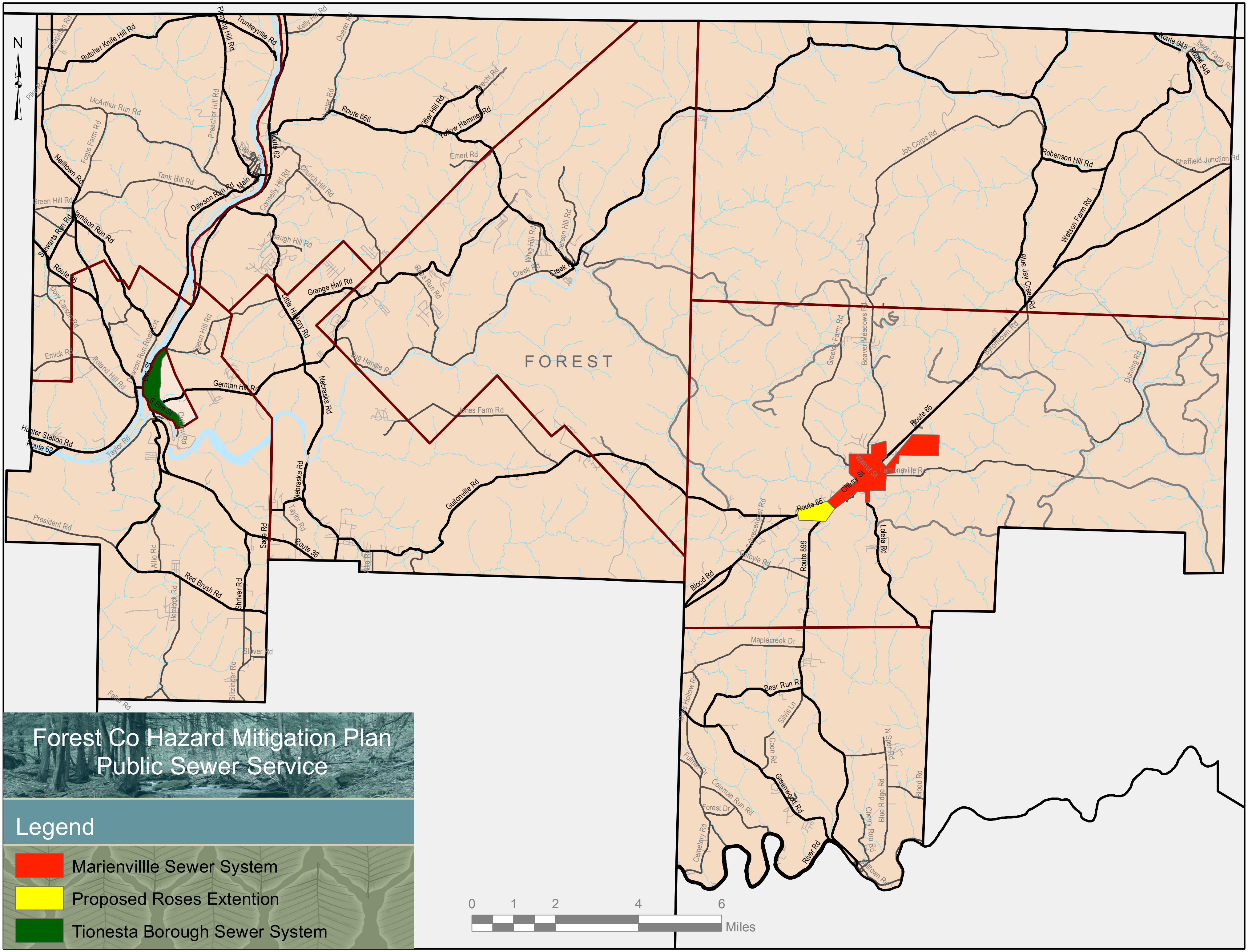

HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
JENKS TWP
GREEN TWP
BARNETT TWP
TIONESTA BORO
TIONESTA TWP
Forest County
Landslide Vulnerability Areas Overlay
0 1 2 4 6
Miles
1 in = 2.84 miles
N
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Structures
Landslide Vulnerable Areas

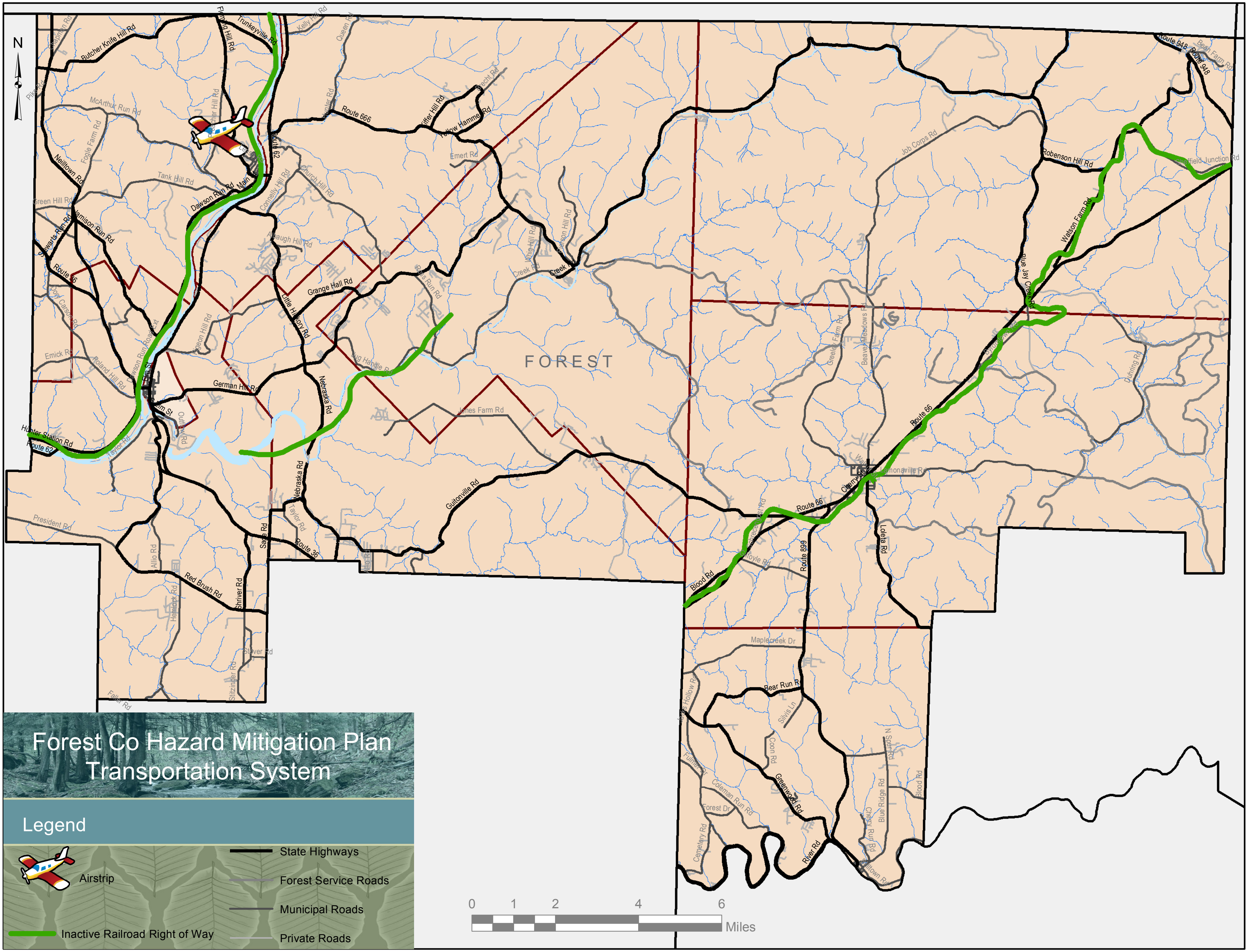

N
FOREST
Forest Co Hazard Mitigation Plan
Farmland Drought Vulnerable
Legend
Prime Farmland Soils
Soils of Statewide Importance
Not Prime Farmland Soils
Gravel Pits
0 1 2 4 6
Miles


Forest Co Hazard Mitigation Plan
Public Water Service
Legend
Aqua PA Forest SCI
Aqua PA Marienville
Cornell Abraxas
Tionesta Borough Water Supply
0 1 2 4 6
Miles
N
FOREST
Butcher Knife Hill Rd
Chapman Rd
Pike Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Route 62
Route 666
Hunter Rd
Kiffer Hill Rd
Yellow Hammer Rd
Brecht Rd
Emert Rd
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Stewarts Run Rd
Jamison Run Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Pigeon Hill Rd
Dawson Run Road Ext
Emick Rd
Roland Hill Rd
Elm St
S Elm St
German Hill Rd
Jug Handle Rd
Nebraska Rd
Jones Farm Rd
Hunter Station Rd
Taylor Rd
President Rd
Guitonville Rd
Sage Rd
Allio Rd
Red Brush Rd
Hemlock Rd
Shriver Rd
Stover Rd
Stitzinger Rd
Faller Rd
Job Corps Rd
Robenson Hill Rd
Route 948
Bean Farm Rd
Sheffield Junction Rd
Watson Farm Rd
Blue Jay Creek Rd
Byromtown Rd
Greeley Farm Rd
Beaver Meadows Rd
Duhring Rd
Route 66
Walnut St
Cherry St
Lamonaville Rd
Loleta Rd
Route 899
Gilfoyle Rd
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Greenwood Rd
Forest Dr
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Belltown Rd

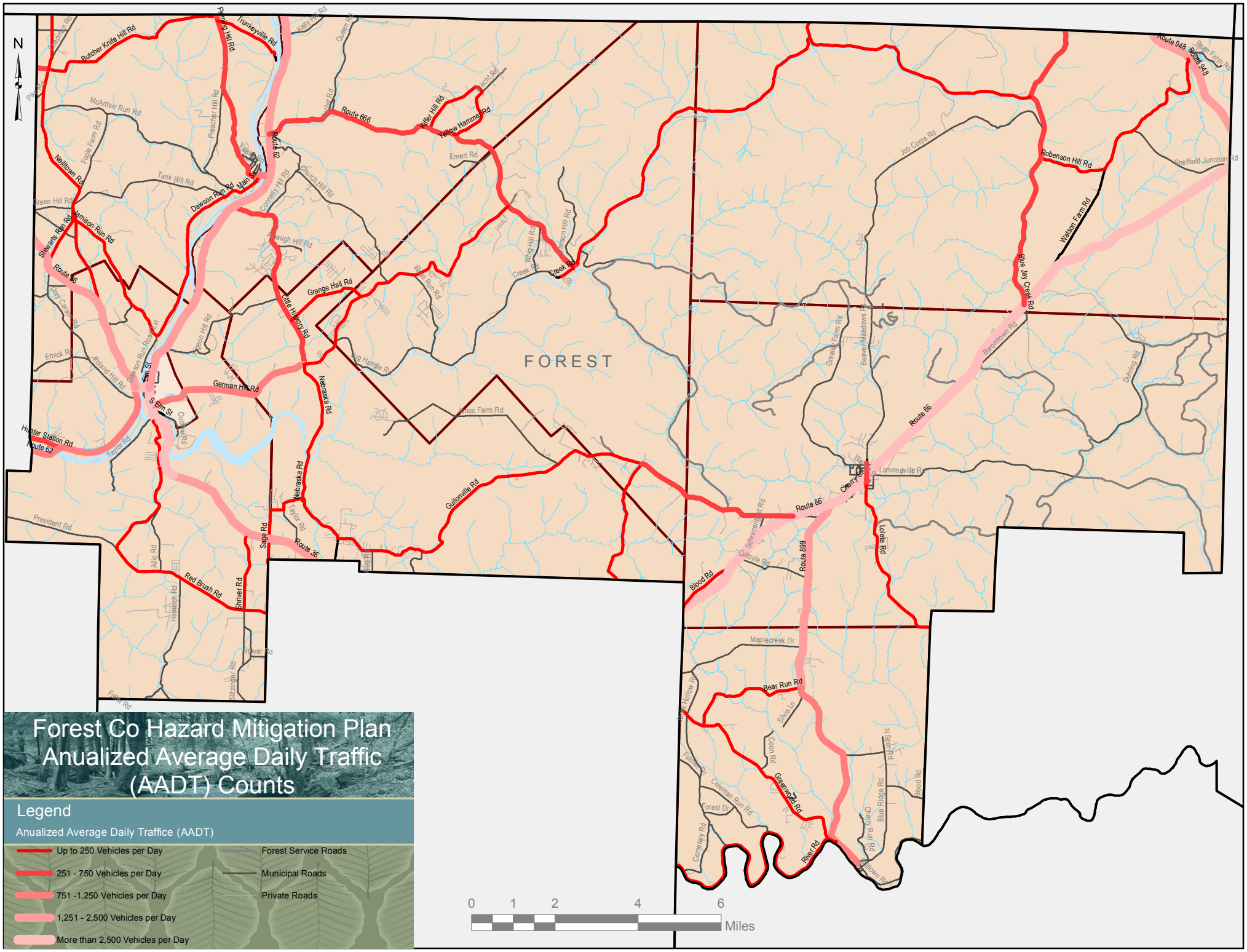


Forest Co Hazard Mitigation Plan
Public Water Systems
Vulnerable to Drought
Legend
Aqua PA Forest SCI
Aqua PA Marienville
Cornell Abraxas
Tionesta Borough Water Supply
FOREST
N
0 1 2 4 6
Miles
Butcher Knife Hill Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Route 666
Hunter Rd
Kiffer Hill Rd
Brecht Rd
Yellow Hammer Rd
Emert Rd
Neilltown Rd
Tank Hill Rd
Route 62
Main St
Dawson Run Rd
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Jamison Run Rd
Stewarts Run Rd
Albaugh Hill Rd
Route 36
Dory Carson Rd
Grange Hall Rd
Little Hickory Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Pigeon Hill Rd
Dawson Run Road Ext
Emick Rd
Roland Hill Rd
Elm St
S Elm St
German Hill Rd
Jug Handle Rd
Nebraska Rd
Jones Farm Rd
Hunter Station Rd
Route 62
Taylor Rd
Guitonville Rd
President Rd
Taylor Rd
Sage Rd
Route 36
Allio Rd
Red Brush Rd
Hemlock Rd
Shriver Rd
Stover Rd
Stitzinger Rd
Faller Rd
Job Corps Rd
Robenson Hill Rd
Route 948
Bean Farm Rd
Sheffield Junction Rd
Watson Farm Rd
Blue Jay Creek Rd
Greeley Farm Rd
Beaver Meadows Rd
Byromtown Rd
Duhring Rd
Route 66
Walnut St
Cherry St
Lamonaville Rd
Schreceng... Rd
Gilfoyle Rd
Route 899
Loleta Rd
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Forest Dr
Greenwood Rd
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Blood Rd
Belltown Rd


Forest Co Hazard Mitigation Plan
Public Sewer Service
Legend
Marienvillle Sewer System
Proposed Roses Extention
Tionesta Borough Sewer System
0 1 2 4 6
Miles
N
FOREST
Route 62
Route 66
Route 666
Route 36
Route 899
Route 948
Elm St
S Elm St
Cherry St
Walnut St
Lamonaville Rd
Butcher Knife Hill Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Preacher Hill Rd
Neilltown Rd
Tank Hill Rd
Dawson Run Rd
Main St
Connelly Hill Rd
Church Hill Rd
Green Hill Rd
Jamison Run Rd
Stewarts Run Rd
Albaugh Hill Rd
Grange Hall Rd
Little Hickory Rd
Dory Carson Rd
Emick Rd
Roland Hill Rd
Dawson Run Road Ext
Pigeon Hill Rd
German Hill Rd
Nebraska Rd
Jug Handle Rd
Hunter Station Rd
Taylor Rd
President Rd
Allio Rd
Hemlock Rd
Red Brush Rd
Shriver Rd
Sage Rd
Stover Rd
Stitzinger Rd
Faller Rd
Hunter Rd
Kiffer Hill Rd
Yellow Hammer Rd
Brecht Rd
Emert Rd
Ross Run Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Jones Farm Rd
Guitonville Rd
Job Corps Rd
Robenson Hill Rd
Sheffield Junction Rd
Bean Farm Rd
Watson Farm Rd
Blue Jay Creek Rd
Byromtown Rd
Greeley Farm Rd
Beaver Meadows Rd
Duhring Rd
Loleta Rd
Blood Rd
Gilfoyle Rd
Maplecreek Dr
Bear Run Rd
Silvis Ln
Coon Rd
Greenwood Rd
Fulmer Dr
Coleman Run Rd
Forest Dr
Cemetery Rd
River Rd
N Spur Rd
Blue Ridge Rd
Cherry Run Rd
Belltown Rd



Forest Co Hazard Mitigation Plan
Transportation System
Legend
Airstrip
Inactive Railroad Right of Way
State Highways
Forest Service Roads
Municipal Roads
Private Roads
0
1
2
4
6
Miles
N
FOREST
Butcher Knife Hill Rd
Chapman Rd
Pike Rd
McArthur Run Rd
Fogle Farm Rd
Neilltown Rd
Tank Hill Rd
Green Hill Rd
Stewarts Run Rd
Jamison Run Rd
Route 36
Dory Carson Rd
Emick Rd
Roland Hill Rd
Dawson Run Road Ext
Elm St
Hunter Station Rd
Route 62
Taylor Rd
President Rd
Fleming Hill Rd
Trunkeyville Rd
Kelly Hill Rd
Queen Rd
Preacher Hill Rd
Route 62
Main St
Dawson Run Rd
Connelly Hill Rd
Church Hill Rd
Hunter Rd
Route 666
Albaugh Hill Rd
Grange Hall Rd
Little Hickory Rd
Pigeon Hill Rd
German Hill Rd
Jug Handle Rd
Nebraska Rd
Outflow Rd
Kiffer Hill Rd
Brecht Rd
Yellow Hammer Rd
Emert Rd
Whig Hill Rd
Pierson Hill Rd
Creek Rd
Ross Run Rd
Jones Farm Rd
Guitonville Rd
Job Corps Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Sheffield Junction Rd
Route 948
Bean Farm Rd
Byromtown Rd
Duhring Rd
Greeley Farm Rd
Beaver Meadows Rd
Route 66
Cherry St
Lamonaville Rd
Loleta Rd
Route 899
Blood Rd
Maplecreek Dr
Bear Run Rd
Jacks Hollow Rd
Silvis Ln
Coon Rd
Fulmer Dr
Coleman Run Rd
Forest Dr
Greenwood Rd
Cemetery Rd
River Rd
Cherry Run Rd
Blue Ridge Rd
N Spur Rd
Allio Rd
Hemlock Rd
Red Brush Rd
Shriver Rd
Sage Rd
Stover Rd
Stitzinger Rd
Faller Rd

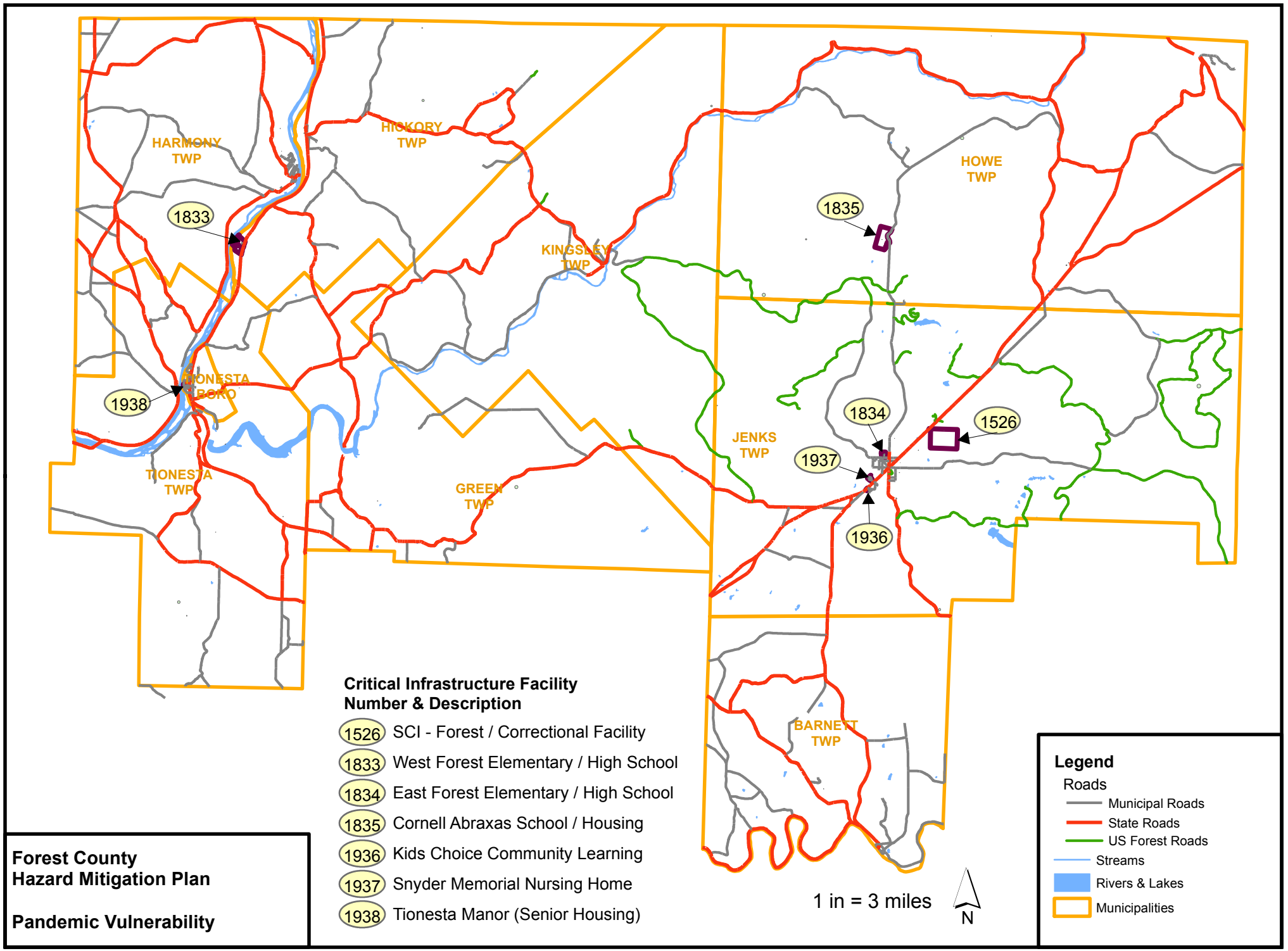


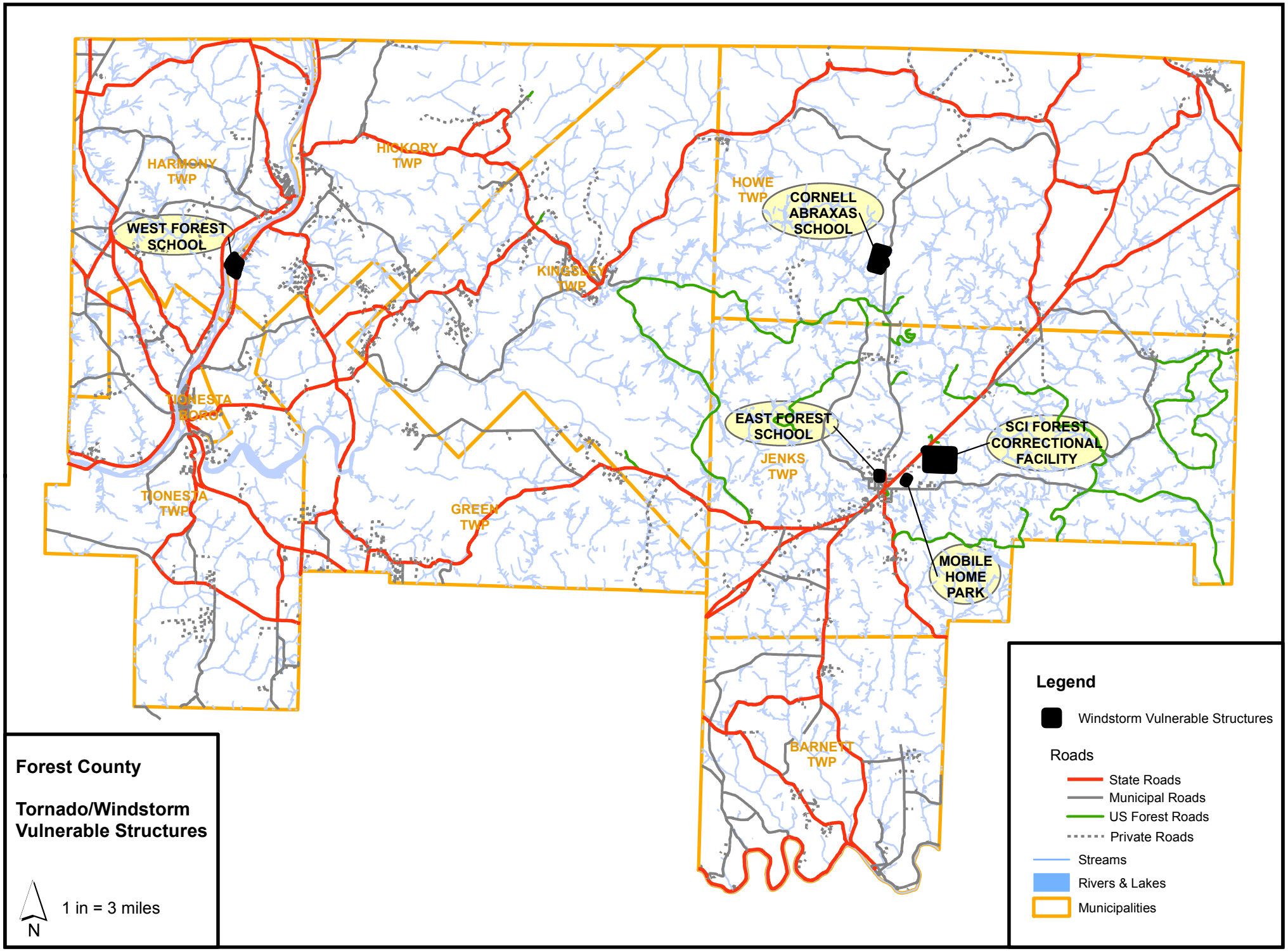
Forest Co Hazard Mitigation Plan Anualized Average Daily Traffic (AADT) Counts

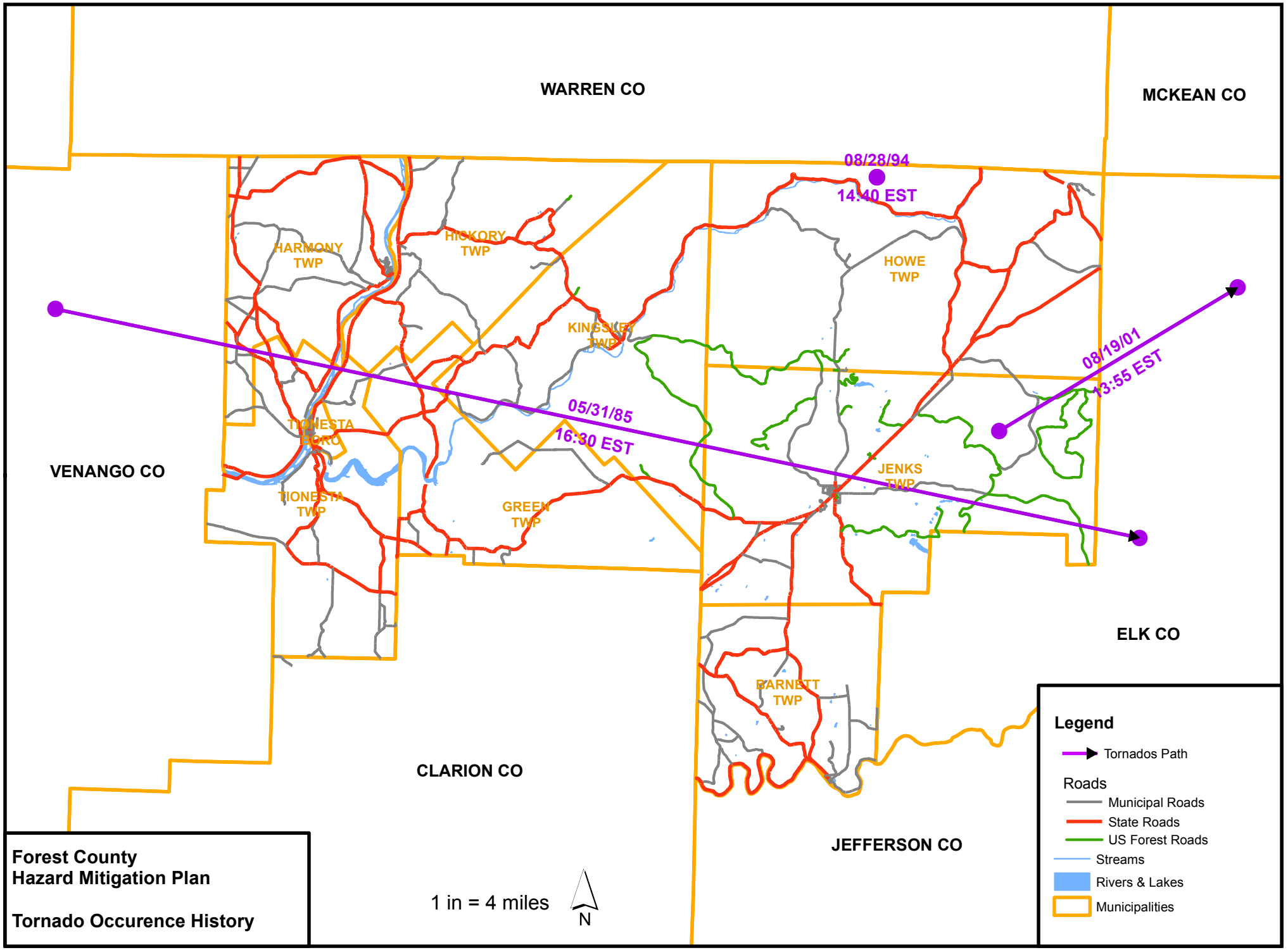
Legend

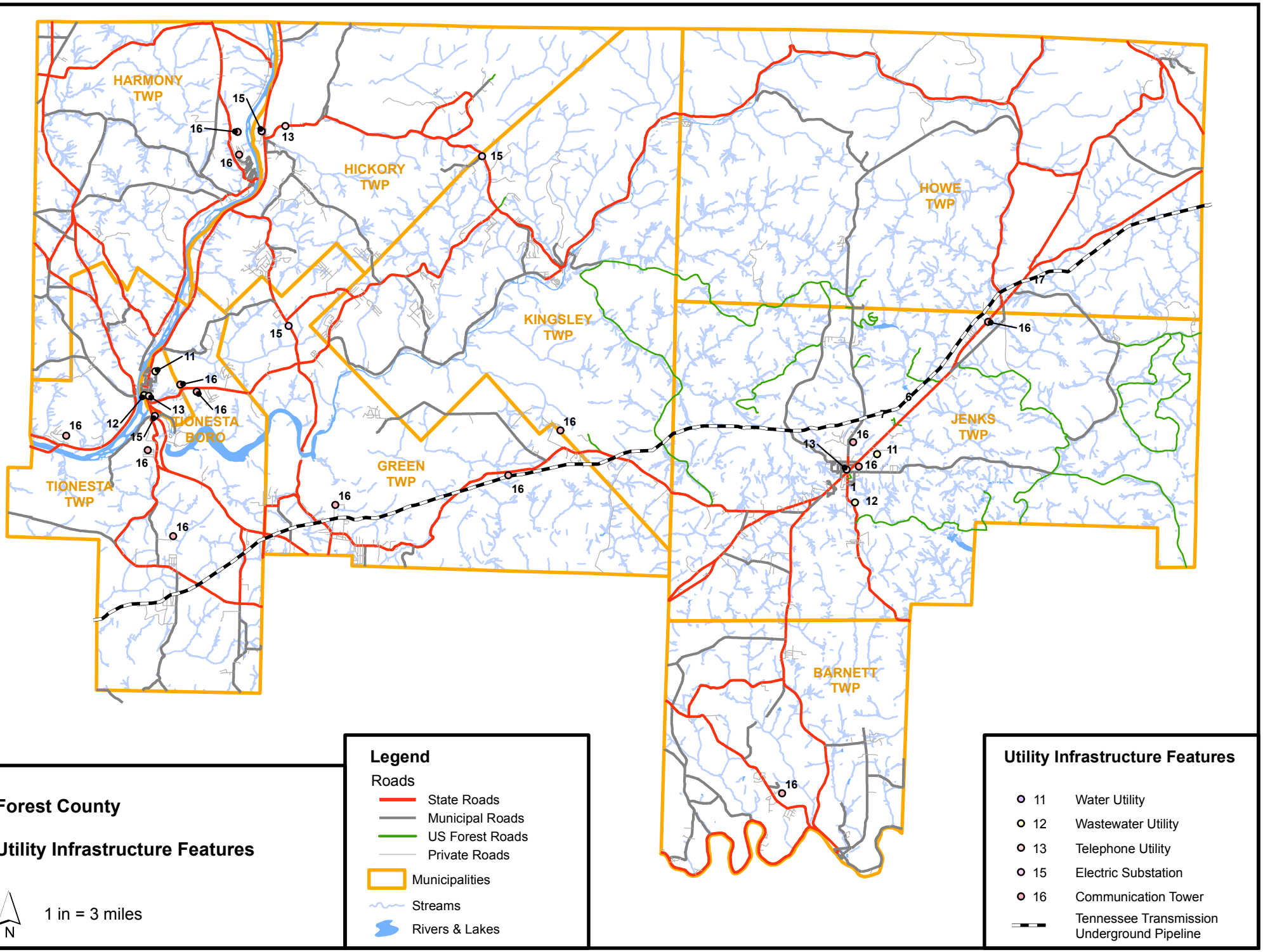
Anualized Average Daily Traffice (AADT)

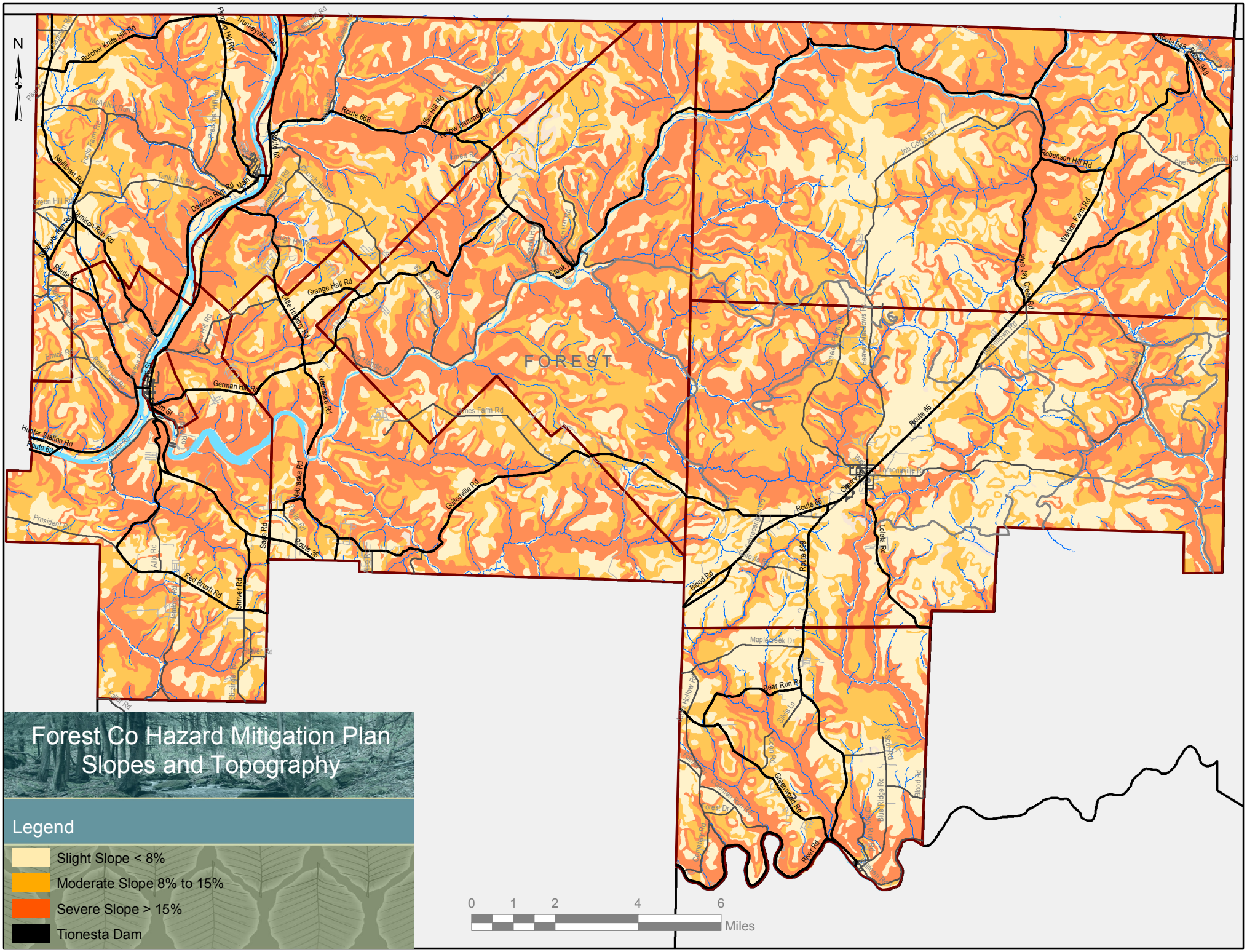
- Up to 250 Vehicles per Day
- 251 - 750 Vehicles per Day
- 751 -1,250 Vehicles per Day
- 1,251 - 2,500 Vehicles per Day
- More than 2,500 Vehicles per Day
- Forest Service Roads
- Municipal Roads
- Private Roads


HARMONY TWP
HICKORY TWP
HOWE TWP
KINGSLEY TWP
JENKS TWP
GREEN TWP
TIONESTA BORO
TIONESTA TWP
BARNETT TWP
1833
1835
1938
1834
1526
1937
1936
Critical Infrastructure Facility
Number & Description
1526 SCI - Forest / Correctional Facility
1833 West Forest Elementary / High School
1834 East Forest Elementary / High School
1835 Cornell Abraxas School / Housing
1936 Kids Choice Community Learning
1937 Snyder Memorial Nursing Home
1938 Tionesta Manor (Senior Housing)
1 in = 3 miles
N
Legend
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities
Forest County
Hazard Mitigation Plan
Pandemic Vulnerability


HARMONY TWP
HICKORY TWP
HOWE TWP
CORNELL ABRAXAS SCHOOL
WEST FOREST SCHOOL
KINGSLEY TWP
TIONESTA BORO
EAST FOREST SCHOOL
SCI FOREST CORRECTIONAL FACILITY
JENKS TWP
TIONESTA TWP
GREEN TWP
MOBILE HOME PARK
BARNETT TWP
Forest County
Tornado/Windstorm Vulnerable Structures
1 in = 3 miles
N
Legend
Windstorm Vulnerable Structures
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Streams
Rivers & Lakes
Municipalities


WARREN CO
MCKEAN CO
VENANGO CO
CLARION CO
JEFFERSON CO
ELK CO
HARMONY TWP
HICKORY TWP
KINGSLEY TWP
HOWE TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
JENKS TWP
BARNETT TWP
08/28/94
14:40 EST
05/31/85
16:30 EST
08/19/01
13:55 EST
Forest County
Hazard Mitigation Plan
Tornado Occurence History
1 in = 4 miles
N
Legend
Tornados Path
Roads
Municipal Roads
State Roads
US Forest Roads
Streams
Rivers & Lakes
Municipalities


HARMONY TWP
HICKORY TWP
HOWE TWP
KINGSLEY TWP
JENKS TWP
TIONESTA BORO
TIONESTA TWP
GREEN TWP
BARNETT TWP
Forest County
Utility Infrastructure Features
1 in = 3 miles
N
Legend
Roads
State Roads
Municipal Roads
US Forest Roads
Private Roads
Municipalities
Streams
Rivers & Lakes
Utility Infrastructure Features
11 Water Utility
12 Wastewater Utility
13 Telephone Utility
15 Electric Substation
16 Communication Tower
Tennessee Transmission Underground Pipeline


N
FOREST
Route 66
Route 36
Route 62
Route 666
Route 399
Route 948
Route 67
Grange Hall Rd
German Hill Rd
Nebraska Rd
Guiltonville Rd
Blood Rd
Robenson Hill Rd
Watson Farm Rd
Blue Jay Creek Rd
Greenwood Rd
Rear Run Rd
Red Brush Rd
Dawson Run Rd
Hunter Station Rd
Forest Co Hazard Mitigation Plan
Slopes and Topography
Legend
Slight Slope < 8%
Moderate Slope 8% to 15%
Severe Slope > 15%
Tionesta Dam
0 1 2 4 6
Miles

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 12/1/20 NAME OF PROJECT: Creek Road Protection

Municipality: Kingsley County: Forest

PROJECT CONTACT: Edward Conti

TITLE: Roadmaster

AGENCY: Kingsley Township

LOCATION (address) OF PROJECT:

Latitude:_____ Longitude: _____

LOT:_____ BLOCK: _____

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION:_____ CERTIFICATE? Y / N _____

Is the property within the 100-year flood plain? YES

Property is located on FIRM Panel Number:_____Date of FIRM:_____

FLOOD INSURANCE? Y/N N Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

Erosion of Creek affecting Creek Road banks / bearing
3 identified sites along Dirt / Gravel section of Township Road.

BRIEF DESCRIPTION OF PROJECT:

Scour protection of various locations along Creek Road
from Ice and Water Damage

TOTAL ESTIMATED COST: $ 190,000 Initial estimate ASSESSMENT VALUE AND DATE N/A

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Possible other Grant sources - Growing Greener
- Dirt and Gravel, Transportation - Liquid Fuels

Community Ranking Score_____Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 1/5/19 NAME OF PROJECT:

Municipality: Kingsley County: Forest

PROJECT CONTACT: Edward Conti

TITLE: Roadmaster

AGENCY: Kingsley Township

LOCATION (address) OF PROJECT:

Latitude:_____ Longitude: _____

LOT:_____ BLOCK: _____

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION:_____ CERTIFICATE? Y / N _____

Is the property within the 100-year flood plain? YES

Property is located on FIRM Panel Number:_____Date of FIRM:_____

FLOOD INSURANCE? Y/N N Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

Just Handle Erosion and Frequently Flooding.

BRIEF DESCRIPTION OF PROJECT: Road Erodes & Frequently Floods Stream is too close to road drainage needs improved

TOTAL ESTIMATED COST: 200,000- + ASSESSMENT VALUE AND DATE

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Not determined

Community Ranking Score_____Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: January 9, 2020 NAME OF PROJECT: Tionesta Storm Water Mitigation

Municipality: Tionesta Borough County: Forest

PROJECT CONTACT: Cindy Crytzer

TITLE: Secretary/Manager

AGENCY: Borough of Tionesta

LOCATION (address) OF PROJECT:

Latitude: 41-30'30" Longitude: 79-27'30"

LOT: N/A BLOCK: N/A

PARCEL NUMBER: Most Parcels located in Tionesta Borough

Or Tax Parcel ID: Tax ID Maps 19-01; 19-02; 19-04; 19-05; 19-07; 19-08; 19-09; 19-10; and 19-11

ELEVATION: From 1074' to 1660' CERTIFICATE? Y / N N

Is the property within the 100-year flood plain? Yes approx. 50% of total

Property is located on FIRM Panel Number: 421648 0277E Date of FIRM: 11/26/2010

FLOOD INSURANCE? Y/N _____ Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

During 50-100 year storm events, conventional storm drains installed in the Borough of Tionesta are unable to accommodate the volume of water draining from the hillside above Tionesta. Rivulets appear, intermittent streams swell into roaring creeks, sheet flows appear in yards, streets run with water over a foot deep, driveways become waterways washing gravel in the yards and onto streets as well as other water related damage. After three 50-100 year storm events in a single year, the Borough Council as well as many citizens are very concerned about repeated property loss and repeated repairs related to the events. So far, no loss of life has occurred, but should events have any duration, it is a distinct possibility. According to the older residents of Tionesta, the recent events are singular. In other words, they do not recall flooding and damaging storm water runoff as has been seen in recent years. They recall flooding of the Allegheny River prior to the building of the Kinzua Dam, but do not remember significant storm water runoff issues in the Borough of Tionesta.

BRIEF DESCRIPTION OF PROJECT:

The project being proposed is two-fold; discovery/study and actual mitigation actions. Tionesta is located at the base of a hill that rises above the town over 600 feet. During 50-100 year storm events, runoff becomes uncontrollable causing flooded basements, washed out street drainage and street surfaces, deposition of transported materials and other damages. A scientific investigation needs to be done to identify and map current runoff patterns during the 50-100 year storm events. Currently little is visible from a coarse look at the hillside, forests are intact, no new roads show, and no development has occurred, nothing seems to have changed. Speculation notes that the use of ATVs on the hillside may have changed some of the conventional run off pathways; in addition, old roads carved in the hillside may have changed configuration in order to plan proper mitigation activities.

Mitigation actions that are expected will be in two primary areas: delay and diversion. During major storm events excess runoff must have areas it can collect and then drain slowly. The delay activities may include recontouring of existing roadways, sculpting of the hillside forming berms and swalls with water control devices to control drainage timing. Small shallow ponds may also be incorporated but may be difficult due to the steep degree of slope on the hillside. Diversion of runoff away from residential areas may be an option, but due to the geography this may not be feasible, study will determine proper actions.

TOTAL ESTIMATED COST: $50,000-$75,000 – Study and; $250,000 Mitigation Activities

ASSESSMENT VALUE : $5,132,820.00 AND DATE: January, 2019

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

Unknown. Possibilities include Grant funding through the PA DEP or the PA DCED. Minimal local funding may be possible.

Community Ranking Score_____Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 1/14/2020 NAME OF PROJECT: River Erosion 1

Municipality: Barnett County: Forest

PROJECT CONTACT: David Dunn

TITLE: Supervisor

AGENCY: Barnett Township

LOCATION (address) OF PROJECT:

Latitude: N41.32432 Longitude: W079.19433

LOT: BLOCK:

PARCEL NUMBER: Forest Co. 1138

Or Tax Parcel ID:

ELEVATION: 1,120 CERTIFICATE? Y / N

Is the property within the 100-year flood plain? Yes

Property is located on FIRM Panel Number: Date of FIRM:

FLOOD INSURANCE? Y/N N Date of Insurance Verification:

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED: There is over 1,500 feet of severe cut bank erosion along the Clarion River adjacent to the Henry Run picnic area. The problem area is also within the right-of-way of State Rd 2002 (River Rd).

BRIEF DESCRIPTION OF PROJECT: Use large irregular size "shot rock" sandstone to construct erosion control deflectors. The deflectors would prevent further stream bank erosion during flash flood and similar high water events.

TOTAL ESTIMATED COST: $400,000 ASSESSMENT VALUE AND DATE

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

In Kind

Community Ranking Score Date

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: January 15, 2020 **NAME OF PROJECT: River Erosion 2**

Municipality: Barnett Township **County: Forest**

PROJECT CONTACT: David Dunn

TITLE: Supervisor

AGENCY: Barnett Township

LOCATION (address) OF PROJECT: 1300 block River Road

Latitude: _____ **Longitude: _____**

LOT: _____ **BLOCK: _____**

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION: _____ **CERTIFICATE? Y / N _____**

Is the property within the 100 yr flood plain? _____

Property is located on FIRM Panel Number: _____ Date of FIRM:_____

FLOOD INSURANCE? Y/N N____ Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:
There is 500 feet of severe cut bank erosion along the Clarion River. The problem area is also within the right-of-way of State Rd 2002 (River Rd).

BRIEF DESCRIPTION OF PROJECT:
Use large irregular size "shot rock" sandstone to construct erosion control deflectors. The deflectors would prevent further stream bank erosion during flash flood and similar high water events.

TOTAL ESTIMATED COST: $150,000

Assessment Value and Date _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

_____

_____

To be completed by Hazard Mitigation Team

Community Ranking Score _____ Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 1/15/20 **NAME OF PROJECT: Road Elevation**

Municipality: Barnett Township **County: Forest**

PROJECT CONTACT: **David Dunn**

TITLE: Supervisor

AGENCY: Barnett Township

LOCATION (address) OF PROJECT: River Road down river from Greenwood Drive

Latitude: _____ **Longitude: _____**

LOT: _____ **BLOCK: _____**

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION: _____ **CERTIFICATE? Y / N _____**

Is the property within the 100 yr flood plain? _____

Property is located on FIRM Panel Number: _____ Date of FIRM:_____

FLOOD INSURANCE? Y/N N_____ Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:
Road floods during minor flooding events. This does not allow access for emergency vehicles or residents.

BRIEF DESCRIPTION OF PROJECT:
Elevate ¼ mile of River Road approximately 3 feet to allow access for emergency vehicles or residents. This will allow access during 80 % of flood events.

TOTAL ESTIMATED COST: $500,000

Assessment Value and Date _____

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

_____

_____

To be completed by Hazard Mitigation Team

Community Ranking Score _____ Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 3/9/2021 NAME OF PROJECT:

Municipality: GREEN County: Forest

PROJECT CONTACT: CARL HABERMAN BUILDING PERMIT/CODE ENFORCEMENT OFFICER GREEN TWP.

TITLE: BLIGHT CONTROL

AGENCY:

LOCATION (address) OF PROJECT:

Latitude:_____ Longitude: _____

LOT:_____ BLOCK: _____

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION:_____ CERTIFICATE? Y / N _____

Is the property within the 100-year flood plain? _____

Property is located on FIRM Panel Number:_____Date of FIRM:_____

FLOOD INSURANCE? Y/N _____Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

REMOVAL OF DILAPIDATED/ABANDONED CAMPS

BRIEF DESCRIPTION OF PROJECT:

TOTAL ESTIMATED COST: _____ASSESSMENT VALUE AND DATE

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

_____

_____

Community Ranking Score_____Date _____

HAZARD MITIGATION PROJECT OPPORTUNITY FORM

DATE: 3-9-21 NAME OF PROJECT:

Municipality: Green County: Forest

PROJECT CONTACT: Bede Meisel

TITLE: Road MASTER (GREEN TOWNSHIP)

AGENCY: GREEN TOWNSHIP

LOCATION (address) OF PROJECT:

Latitude:_____ Longitude: _____

LOT:_____ BLOCK: _____

PARCEL NUMBER: _____

Or Tax Parcel ID: _____

ELEVATION:_____ CERTIFICATE? Y / N _____

Is the property within the 100-year flood plain? NO

Property is located on FIRM Panel Number:_____Date of FIRM:_____

FLOOD INSURANCE? Y/N N Date of Insurance Verification: _____

BRIEF DESCRIPTION OF PROBLEM TO BE SOLVED:

NEW PIPES UNDER NEBRASKA ROAD FOR STORM WATER MANAGEMENT

BRIEF DESCRIPTION OF PROJECT:

↑

TOTAL ESTIMATED COST: 10,000 DOLLARS ASSESSMENT VALUE AND DATE

SOURCE OF FUNDING FOR NON-FEDERAL SHARE:

COUNTY ASSISTANCE GRANT

Community Ranking Score_____Date _____

FOREST COUNTY CONSERVATON DISTRICT
& PLANNING DEPARTMENT
IDC INDUSTRIAL COMPLEX, TIONESTA PA 16353
FEBRUARY 25, 2016 – 6:30 PM

WELCOME AND CALL TO ORDER

Chairman Robert Summers called the meeting to order at 6:30 PM and welcomed those present. All joined in with the Pledge of Allegiance.

Present for the meeting were the following people:

Robert Summers	Todd Huth	Donna Zofcin
Jeff Arnold	Elton Kline	Curt Kiefer
Robert Wagner	Leonard Hetrick	

PERSONS TO BE HEARD

There were no persons to be heard.

APPROVAL OF MINUTES AND TREASURER'S REPORT

Chairman Summers asked if the Board had any corrections or additions to the Minutes of January 28, 2016. Elton Kline made a Motion to accept the Minutes of January 28, 2016. Jeff Arnold seconded the Motion. Motion Carried.

Chairman Summers asked if the Board had any corrections or additions to the Treasurer's Report with Notes from January 31, 2016. There was a short discussion on the Dirt & Gravel funds and the ACT 167 expense. Todd Huth made a Motion to accept the Treasurer's Report with Notes from January 31, 2016. Elton Kline seconded the Motion. Motion Carried.

CHAIRMAN'S REPORT – Chairman Summers did not have anything to report.

COMMISSIONER'S REPORT

Commissioner Huffman was not present.

EX-OFFICIO MEMBERS REPORT

John Green - DEP Field Representative

John was not present. His January report was reviewed, and there was a short discussion on the Chesapeake Bay Program.

EXECUTIVE DIRECTOR'S REPORT

Donna went over her February report. There was a short discussion on the SALDO Update. The projected Scope of Work was distributed to Board members for their input.

Donna showed a PowerPoint presentation on the Canoe Access projects. Donna requested the Board approve the purchase of a projector to be used at Board Meetings. Donna currently borrows a projector from Penn State Ext. anytime one is needed. Todd Huth made a Motion to approve the purchase of a projector with a maximum purchase price of $649.00. Leonard Hetrick seconded the Motion. Motion carried. This purchase will be made using educational funds from the Dirt & Gravel program.

OLD BUSINESS

- **2016 State Ethics Forms –** Donna believes all of the 2016 State Ethics Forms have been returned by Board Members.

NEW BUSINESS

- **Forest County 2014 Hazard Mitigation Yearly Update –** Updates on projects were received from most of the townships, and the Forest County Hazard Mitigation Plan – Municipal Project Opportunities Chart was updated for 2015. There was a short discussion on the Kingsley Township opportunities.

- **Dirt & Gravel – Tionesta Township Contract Amendment** – The Tionesta Township contract for Pigeon Hill Road currently expires on April 15, 2016. The Township has requested more time to complete this project. Elton Kline made a Motion to extend the Contract to June 30, 2016. Jeff Arnold seconded the Motion. Motion carried.

- **PA Project Grass Dues –** Donna passed the PA Project Dues notice around to the Board Members. Robert Wagner explained what PA Project Grass is about. Todd Huth made a Motion to pay the $25.00 PA Project Grass dues. Elton Kline seconded the Motion. Motion carried.

- **Penn Soil RC&D Dues –** Todd Huth made a Motion to pay Penn Soil RC&D Dues in the amount of $200.00. Leonard Hetrick seconded the Motion. Motion carried.

- **PACD Dues** – Leonard Hetrick made a Motion to pay the additional 10% PACD Dues in the amount of $129.60. Jeff Arnold seconded the Motion. Motion carried.

- **Chapter 102 Delegation Agreement –** Donna informed the Board that the Ch. 102 Delegation Agreement had been received. Leonard Hetrick made a Motion to approve the Ch. 102 Delegation Agreement. Elton Kline seconded the Motion. Motion carried.

RESOURCE TECHNICIAN'S REPORT

Curt went over his report. A discussion was held on mapping and subdivisions. Curt informed the Board about the UPI program that is being considered.

Curt informed the Board about the online GIS Proposal from www.facilitydude.com. This proposal is less expensive and easier than continuing with the online program with ESRI. The online program with a sample county from Iredell County in North Carolina was shown using the projector and laptop. Jeff Arnold made a Motion to approve the www.facilitydude.com Online GIS proposal. Elton Kline seconded the Motion. Motion carried.

ADJOURNMENT

A Motion was made to adjourn the meeting at 7:27 pm by Elton Kline. The Motion was seconded by Jeff Arnold. Motion carried. Meeting was adjourned.

Respectfully Submitted,

_____
Chairman

_____
Executive Director

FOREST COUNTY CONSERVATON DISTRICT
& PLANNING DEPARTMENT
IDC INDUSTRIAL COMPLEX, TIONESTA PA 16353
FEBRUARY 25, 2016 – 6:30 PM

WELCOME AND CALL TO ORDER

Chairman Robert Summers called the meeting to order at 6:30 PM and welcomed those present. All joined in with the Pledge of Allegiance.

Present for the meeting were the following people:

Robert Summers	Todd Huth	Donna Zofcin
Jeff Arnold	Elton Kline	Curt Kiefer
Robert Wagner	Leonard Hetrick	

PERSONS TO BE HEARD

There were no persons to be heard.

APPROVAL OF MINUTES AND TREASURER'S REPORT

Chairman Summers asked if the Board had any corrections or additions to the Minutes of January 28, 2016. Elton Kline made a Motion to accept the Minutes of January 28, 2016. Jeff Arnold seconded the Motion. Motion Carried.

Chairman Summers asked if the Board had any corrections or additions to the Treasurer's Report with Notes from January 31, 2016. There was a short discussion on the Dirt & Gravel funds and the ACT 167 expense. Todd Huth made a Motion to accept the Treasurer's Report with Notes from January 31, 2016. Elton Kline seconded the Motion. Motion Carried.

CHAIRMAN'S REPORT – Chairman Summers did not have anything to report.

COMMISSIONER'S REPORT

Commissioner Huffman was not present.

EX-OFFICIO MEMBERS REPORT

John Green - DEP Field Representative

John was not present. His January report was reviewed, and there was a short discussion on the Chesapeake Bay Program.

EXECUTIVE DIRECTOR'S REPORT

Donna went over her February report. There was a short discussion on the SALDO Update. The projected Scope of Work was distributed to Board members for their input.

Donna showed a PowerPoint presentation on the Canoe Access projects. Donna requested the Board approve the purchase of a projector to be used at Board Meetings. Donna currently borrows a projector from Penn State Ext. anytime one is needed. Todd Huth made a Motion to approve the purchase of a projector with a maximum purchase price of $649.00. Leonard Hetrick seconded the Motion. Motion carried. This purchase will be made using educational funds from the Dirt & Gravel program.

OLD BUSINESS

- **2016 State Ethics Forms –** Donna believes all of the 2016 State Ethics Forms have been returned by Board Members.

NEW BUSINESS

- **Forest County 2014 Hazard Mitigation Yearly Update –** Updates on projects were received from most of the townships, and the Forest County Hazard Mitigation Plan – Municipal Project Opportunities Chart was updated for 2015. There was a short discussion on the Kingsley Township opportunities.

- **Dirt & Gravel – Tionesta Township Contract Amendment** – The Tionesta Township contract for Pigeon Hill Road currently expires on April 15, 2016. The Township has requested more time to complete this project. Elton Kline made a Motion to extend the Contract to June 30, 2016. Jeff Arnold seconded the Motion. Motion carried.

- **PA Project Grass Dues –** Donna passed the PA Project Dues notice around to the Board Members. Robert Wagner explained what PA Project Grass is about. Todd Huth made a Motion to pay the $25.00 PA Project Grass dues. Elton Kline seconded the Motion. Motion carried.

- **Penn Soil RC&D Dues –** Todd Huth made a Motion to pay Penn Soil RC&D Dues in the amount of $200.00. Leonard Hetrick seconded the Motion. Motion carried.

- **PACD Dues** – Leonard Hetrick made a Motion to pay the additional 10% PACD Dues in the amount of $129.60. Jeff Arnold seconded the Motion. Motion carried.

- **Chapter 102 Delegation Agreement –** Donna informed the Board that the Ch. 102 Delegation Agreement had been received. Leonard Hetrick made a Motion to approve the Ch. 102 Delegation Agreement. Elton Kline seconded the Motion. Motion carried.

RESOURCE TECHNICIAN'S REPORT

Curt went over his report. A discussion was held on mapping and subdivisions. Curt informed the Board about the UPI program that is being considered.

Curt informed the Board about the online GIS Proposal from www.facilitydude.com. This proposal is less expensive and easier than continuing with the online program with ESRI. The online program with a sample county from Iredell County in North Carolina was shown using the projector and laptop. Jeff Arnold made a Motion to approve the www.facilitydude.com Online GIS proposal. Elton Kline seconded the Motion. Motion carried.

ADJOURNMENT

A Motion was made to adjourn the meeting at 7:27 pm by Elton Kline. The Motion was seconded by Jeff Arnold. Motion carried. Meeting was adjourned.

Respectfully Submitted,

_____
Chairman

_____
Executive Director

Forest County Hazard Mitigation Plan - Municipal Project Opportunities							
Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost	2015
			Description of Problem to be Solved	Project Description			
Barnett Township	None	River Road Erosion	The Clarion River is eroding River Road in various locations.	Work with Penn DOT and DCNR to determine fix for erosion areas and make repairs.	Flooding	$750,000	Construction to begin in summer of 2016
Barnett Township	None	Generator	No backup power for emergency shelter	Install a generator to provide backup power for the shelter.	Utility Outage	$7,000	generator has been purchased and installed
Barnett Township	None	Maple Creek Bridge	Bridge in need of repairs to allow residents access to their homes	Replace/Repair bridge and decking	Multi-hazard	$10,000	repaired & resurfaced in 2015
Barnett Township	None	River Road Evaluation	Allow River Road to remain open during normal flood events. This will allow residents and emergency services access to homes and business.	Evaluate approximately 300 feet of River Road by 3 feet.	Flooding	$100,000	
Jenks Township	1	Cherry Street Stormwater Project	During heavy rains the drainage on Route 66 is not adequate to handle the runoff north and south of Oak lane in Marienville. Local flooding is a common problem because of drainage channels that are not adequate to handle the flow of runoff.	Install new tail drainage systems at the north end of Oak Lane across RT 66 and parallel piping on the east and west side of RT 66 from the north entrance of Oak Lane to the south end of Oak Lane near the Dollar General Store, then south on the east side of RT66 to the car wash.	Flooding	TBD	storm sewers are currently being updated
Jenks Township	2	Communications	During an emergency involving across township lines there is no communications link between the west and east side, county, township, and emergency services. In the event of a Tornado across Forest County the east and west side of the county could not communicate the disaster. 3 emergency communications hubs should be constructed that would have radio frequency for townships, fire, ems and sheriff, In the event of a disaster these hubs would serve as the communication center for each local responder as well as communicate across the county. In the tornado of 1985 there was no communication across the county for townships, fire, or ems.	Provide a radio system to the townships that would connect them across township and county lines. Provide the emergency services a radio connection across county lines. And install in 3 areas in the county a hub for emergency communications that could be used to link communications separately for each organization (townships, emergency services, sheriff). For instance in the Marienville fire station there would be an area that would have antennas for township radio, each county first responder radio, and sheriff. Then in the event of a county wide emergency those representatives could have a place to receive information on the disaster. Local first responders would not have to change frequencies only install an antenna and radio to link to the other companies.	Multi-Hazard	TBD	no change
Hickory Township	None	**2008 Project** Prather Run/Battle Alley	During major storm events Prather Run regularly floods. During 50-100 year storm events the problem is even greater. Due to the present configuration of the creek, flowing water must negotiate unnatural changes in direction. Proximity of residences to the creek places human habitation and lives in the path of this flooding. The problems residents face in this area are longstanding and usually don't rise beyond the level of annoyance, but during the major storm events, 50-100 year storms, human safety becomes an issue.	A study utilizing survey and water management techniques needs done along the inhabited area (near the mouth of Prather Run) to access the path of storm water in Prather Run during major rain events. A buy-out could be the solution for certain homeowners. A diversion of the creek itself might be considered due to past and prior creek work in the past. An aerial view of the creek reveals a 90-degree bend in the creek in the proximity of the residences; it can be assumed that this is not the natural course of the creek and was changed in the past. Re-channeling of the creek may also provide a solution to the regular flooding experienced by residents in the area. Only a professional exploration of the area will provide the science data needed to determine the wisest course of action and a long-term solution to this problem.	Flooding	$150,000	tjownship does not have the funds for this project.

Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost	2015
			Description of Problem to be Solved	Project Description			
Howe Township	None	Fork Run Bridge	The Lot in question is the only repetitive loss in Forest County. Mr. Shick's home is in Zone A area of 100 year flood. There is an alleged claim that a Howe Township Bridge is causing the flooding of Lot 261. Mr. Shick also has leased lots in the flood plane to other camp owners. Possibility of flood is not if, but when.	Hire a hydrologist to study the site, determine flood causality and what role the Township bridge over Fork Run, Tionesta Creek, plays in the flooding potential. Study needs to determine mitigation actions needed.	Flooding	$30,000	
Kingsley Township	4	Creek Road	This road runs along Tionesta Creek which is subject to flooding by Tionesta Dam. Undermining and wash away of the road surface occurs.	Stabilize the banks of the road with reinforcements.	Flooding	$200,000	LVR project to begin in 2016
Kingsley Township	4	Jughandle Bridge	This bridge lies in the flood plain along Tionesta Creek. It is exposed to high water levels that may cause damage to abutments. The bridge floods annually.	Reinforce bridge abutments and stabilize the banks.	Flooding	$75,000	
Kingsley Township	4	Ross Run Bridges	Two small bridges are within the flood plain along Tionesta Creek and do flood annually. It is exposed to high water levels that may cause damage to abutments.	Reinforce bridge abutments and stabilize the banks.	Flooding	$150,000	bridges were repaired when they washed out
Kingsley Township	3	Branch Bridge	The bridge is exposed to high/fast moving water in wet times of year.	Reinforce bridge abutments and stabilize the banks.	Flooding	$75,000	
Kingsley Township	3	Disorientation	Hunters, hikers, horseback riders, etc. become lost in the woods or have medical emergencies	Ensure that local responders have proper gear to act on distress calls.	Disorientation	$50,000	
Kingsley Township	2	Jughandle Hill	Steep grade may erode during flash flooding	Install new larger cross pipes under road surface	Flooding	$50,000	
Kingsley Township	2	Whig Hill	Steep grade may erode during flash flooding	Install new larger cross pipes under road surface	Flooding	$50,000	Whig Hill catch basin was replaced with LVR Project
Tionesta Borough	None	**2008 Project** Tionesta Storm Water Mitigation	Study and mitigate the base of hills in town for storm water	Installation of new storm drains	Flooding	$25,000	no activity, no funds
Tionesta Borough	None	Council Run	Council Run flooding affects several land owners plus dumps sediment into a channel of the Allegheny River, filling it with sediment.	Hire a hydrologist to study the watershed to determine the cause of flooding and source of sediment. In addition, study the channel of the Allegheny to determine how to restore the original conditions of at least 30 years ago.	Flooding	$30,000	DEP keeps cancelling meetings, no further action taken
Tionesta Township	None	Pigeon Hill Road	Road erosion from runoff	Add culverts and make existing ones larger	Flooding	$25,000	D&G project underway

Forest County Hazard Mitigation Plan - Municipal Project Opportunities							
Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost	2015
			Description of Problem to be Solved	Project Description			
Barnett Township	None	River Road Erosion	The Clarion River is eroding River Road in various locations.	Work with Penn DOT and DCNR to determine fix for erosion areas and make repairs.	Flooding	$750,000	Construction to begin in summer of 2016
Barnett Township	None	Generator	No backup power for emergency shelter	Install a generator to provide backup power for the shelter.	Utility Outage	$7,000	generator has been purchased and installed
Barnett Township	None	Maple Creek Bridge	Bridge in need of repairs to allow residents access to their homes	Replace/Repair bridge and decking	Multi-hazard	$10,000	repaired & resurfaced in 2015
Barnett Township	None	River Road Evaluation	Allow River Road to remain open during normal flood events. This will allow residents and emergency services access to homes and business.	Evaluate approximately 300 feet of River Road by 3 feet.	Flooding	$100,000	
Jenks Township	1	Cherry Street Stormwater Project	During heavy rains the drainage on Route 66 is not adequate to handle the runoff north and south of Oak lane in Marienville. Local flooding is a common problem because of drainage channels that are not adequate to handle the flow of runoff.	Install new tail drainage systems at the north end of Oak Lane across RT 66 and parallel piping on the east and west side of RT 66 from the north entrance of Oak Lane to the south end of Oak Lane near the Dollar General Store, then south on the east side of RT66 to the car wash.	Flooding	TBD	storm sewers are currently being updated
Jenks Township	2	Communications	During an emergency involving across township lines there is no communications link between the west and east side, county, township, and emergency services. In the event of a Tornado across Forest County the east and west side of the county could not communicate the disaster. 3 emergency communications hubs should be constructed that would have radio frequency for townships, fire, ems and sheriff, In the event of a disaster these hubs would serve as the communication center for each local responder as well as communicate across the county. In the tornado of 1985 there was no communication across the county for townships, fire, or ems.	Provide a radio system to the townships that would connect them across township and county lines. Provide the emergency services a radio connection across county lines. And install in 3 areas in the county a hub for emergency communications that could be used to link communications separately for each organization (townships, emergency services, sheriff). For instance in the Marienville fire station there would be an area that would have antennas for township radio, each county first responder radio, and sheriff. Then in the event of a county wide emergency those representatives could have a place to receive information on the disaster. Local first responders would not have to change frequencies only install an antenna and radio to link to the other companies.	Multi-Hazard	TBD	no change
Hickory Township	None	**2008 Project** Prather Run/Battle Alley	During major storm events Prather Run regularly floods. During 50-100 year storm events the problem is even greater. Due to the present configuration of the creek, flowing water must negotiate unnatural changes in direction. Proximity of residences to the creek places human habitation and lives in the path of this flooding. The problems residents face in this area are longstanding and usually don't rise beyond the level of annoyance, but during the major storm events, 50-100 year storms, human safety becomes an issue.	A study utilizing survey and water management techniques needs done along the inhabited area (near the mouth of Prather Run) to access the path of storm water in Prather Run during major rain events. A buy-out could be the solution for certain homeowners. A diversion of the creek itself might be considered due to past and prior creek work in the past. An aerial view of the creek reveals a 90-degree bend in the creek in the proximity of the residences; it can be assumed that this is not the natural course of the creek and was changed in the past. Re-channeling of the creek may also provide a solution to the regular flooding experienced by residents in the area. Only a professional exploration of the area will provide the science data needed to determine the wisest course of action and a long-term solution to this problem.	Flooding	$150,000	tjownship does not have the funds for this project.

Municipality	Community Rank	Project Name	Mitigation Measures		Hazard Mitigated	Total Cost	2015
			Description of Problem to be Solved	Project Description			
Howe Township	None	Fork Run Bridge	The Lot in question is the only repetitive loss in Forest County. Mr. Shick's home is in Zone A area of 100 year flood. There is an alleged claim that a Howe Township Bridge is causing the flooding of Lot 261. Mr. Shick also has leased lots in the flood plane to other camp owners. Possibility of flood is not if, but when.	Hire a hydrologist to study the site, determine flood causality and what role the Township bridge over Fork Run, Tionesta Creek, plays in the flooding potential. Study needs to determine mitigation actions needed.	Flooding	$30,000	
Kingsley Township	4	Creek Road	This road runs along Tionesta Creek which is subject to flooding by Tionesta Dam. Undermining and wash away of the road surface occurs.	Stabilize the banks of the road with reinforcements.	Flooding	$200,000	LVR project to begin in 2016
Kingsley Township	4	Jughandle Bridge	This bridge lies in the flood plain along Tionesta Creek. It is exposed to high water levels that may cause damage to abutments. The bridge floods annually.	Reinforce bridge abutments and stabilize the banks.	Flooding	$75,000	
Kingsley Township	4	Ross Run Bridges	Two small bridges are within the flood plain along Tionesta Creek and do flood annually. It is exposed to high water levels that may cause damage to abutments.	Reinforce bridge abutments and stabilize the banks.	Flooding	$150,000	bridges were repaired when they washed out
Kingsley Township	3	Branch Bridge	The bridge is exposed to high/fast moving water in wet times of year.	Reinforce bridge abutments and stabilize the banks.	Flooding	$75,000	
Kingsley Township	3	Disorientation	Hunters, hikers, horseback riders, etc. become lost in the woods or have medical emergencies	Ensure that local responders have proper gear to act on distress calls.	Disorientation	$50,000	
Kingsley Township	2	Jughandle Hill	Steep grade may erode during flash flooding	Install new larger cross pipes under road surface	Flooding	$50,000	
Kingsley Township	2	Whig Hill	Steep grade may erode during flash flooding	Install new larger cross pipes under road surface	Flooding	$50,000	Whig Hill catch basin was replaced with LVR Project
Tionesta Borough	None	**2008 Project** Tionesta Storm Water Mitigation	Study and mitigate the base of hills in town for storm water	Installation of new storm drains	Flooding	$25,000	no activity, no funds
Tionesta Borough	None	Council Run	Council Run flooding affects several land owners plus dumps sediment into a channel of the Allegheny River, filling it with sediment.	Hire a hydrologist to study the watershed to determine the cause of flooding and source of sediment. In addition, study the channel of the Allegheny to determine how to restore the original conditions of at least 30 years ago.	Flooding	$30,000	DEP keeps cancelling meetings, no further action taken
Tionesta Township	None	Pigeon Hill Road	Road erosion from runoff	Add culverts and make existing ones larger	Flooding	$25,000	D&G project underway

Community Wildfire Protection Plan

Forest County
Pennsylvania

Prepared for:
Forest County
Forest County Courthouse
526 Elm St.
Tionesta, Pa 16353

Prepared by:
Wildland Fire Associates
2016 Saint Clair Avenue
Brentwood, MO 63144

Community Wildfire Protection Plan

For

Forest County Pennsylvania

June 25, 2014

Wildland Fire Associates, LLP

Darrell Schulte

Doug Raeburn

Chris House

1. Data and recommendations developed for this project are advisory in nature and are NOT intended to replace specific site assessments. At any given time the ephemeral nature of the vegetation may affect fuel condition present within the study area. Wildland Fire Associates and its agents assume no liability in the event a catastrophic wildland fire damages or destroys public or private property.

Core Team

Doug Carlson – Forest County Conservation & Planning

Donna Lynn Zofcin – Forest County Conservation & Planning

Dan Glotz – Warren County Planning

Cecile Stelter – DCNR PA Bureau of Forestry

Peter To – Allegheny National Forestry

Chris House – Wildland Fire Associates

Doug Raeburn – Wildland Fire Associates

Darrell Schulte – Wildland Fire Associates

Community Wildfire Protection Plan

For

Forest County, Pennsylvania

Submitted by: _____ Date: _____

Project Leader, Wildland Fire Associates

Reviewed by: _____Date:_____

Forest County Conservation & Planning

Reviewed by: _____ Date: _____

DCNR PA Bureau of Forestry

Reviewed by: _____Date:_____

USDA Forest Service, Allegheny National Forest

Accepted by: _____Date:_____

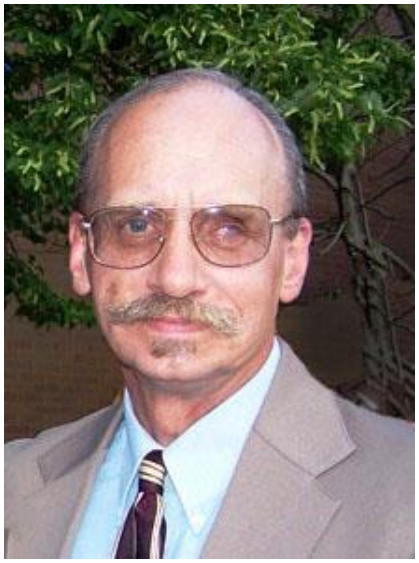
Forest County Conservation & Planning

This plan is dedicated to Doug Carlson who passed away unexpectedly during the planning process.

Douglas E. Carlson, 62, of Tionesta, passed away unexpectedly on Tuesday morning, Feb. 4, 2014.

Doug loved Forest County and served to maintain and improve the county as Conservation District Manager and Forest County Planner. As County Planner, Doug, along with Dan Glotz of Warren County, was instrumental in acquiring the funding that enabled Forest County to complete this County Wide Protection Plan.

Doug was born Sept. 6, 1951, in Warren. He was the son of Ronald L. and the late Alice (Kent) Carlson of Sugar Grove.



He was a graduate of Eisenhower High School and Edinboro University.

On June 20, 1988, Doug married Romona Smith at the Tionesta Church of God.

He was an active member of the Tionesta Church of God. He served the Lord diligently, teaching Sunday school, leading the Men's Promise Keepers and serving on the board of trustees.

He was a member of the Masons Lodge 547 in Youngsville, Pa.

Doug cared for his family and could be counted on to help and provide his opinion. His love, wit and humor will be missed by all.

Doug is now truly living the dream.

Wildland Urban Interface Hazards

Firefighters in the wildland urban interface may encounter hazards other than the fire itself, such as hazardous materials, utility lines, and poor access.

Hazardous Materials: Common chemicals used around the home may be a direct hazard to firefighters from flammability, explosion potential and /or vapors or off-gassing. Such chemicals include paint, varnish, and other flammable liquids; fertilizer; pesticides; cleansers; aerosol cans; fireworks; batteries; and ammunition. In addition, some common household products such as plastics may give off very toxic fumes when they burn. Stay OUT of the smoke from burning structures and any unknown sources, such as trash piles.

Illicit Activities: Marijuana plantations and drug production labs may be found in wildland urban interface areas. Extremely hazardous materials such as propane tanks and flammable/toxic chemicals may be encountered as well as booby traps.

Propane Tanks: Both large (household size) and small (gas-grill size) liquefied propane gas (LPG) tanks can present hazards to firefighters, including explosion.

Utility Lines: Utility lines may be located above and below ground and may be cut or damaged by tools or equipment. Don't spray water on utility lines or boxes.

Septic Tanks and Fields: Below-ground structures may not be readily apparent and may not support the weight of engines or other apparatus.

New Construction Materials: Many new construction materials have comparatively low melting points and may "off-gas" extremely hazardous vapors. Plastic decking materials that resemble wood are becoming more common and may begin softening and losing structural strength at 80̊ F, though they normally do not sustain combustion once direct flame is removed. However, if they continue to burn, they exhibit the characteristics of flammable liquids.

Pets and Livestock: Pets and livestock may be left when residents evacuate and will likely be highly stressed, making them more inclined to bite and kick. Firefighters should not put themselves at risk to rescue pets or livestock.

Evacuation Occurring: Firefighters may be taking structural protection actions while evacuations of residents are occurring. Be very cautious of people driving erratically. Distraught residents may refuse to leave their property, and firefighters my need to disengage from fighting fire to contact law enforcement officers for assistance. In most jurisdictions firefighters do not have the authority to force evacuations. Firefighters should not put themselves at risk trying to protect someone who will not evacuate.

Limited Access: Narrow one lane roads with no turnaround room, inadequate or poorly maintained bridges and culverts are frequently found in wildland urban interface areas. Access should be sized up and an evacuation plan for all emergency personnel should be developed.

WILDLAND FIRE ASSOCIATES

Table of Contents

1.0 Executive Summary

Community Wildfire Protection Plans (CWPP) are authorized and defined by Title 1 of the Healthy Forests Restoration Act (HFRA) passed by Congress on November 21, 2003, and signed into law by President Bush on December 3, 2003.

The Healthy Forests Restoration Act (HFRA) places renewed emphasis on community planning by extending a variety of benefits to communities with wildfire protection plans in place. HFRA recognizes community plans and priorities have an important role in shaping management on federal and non-federal lands.

The Mission of the Pennsylvania Firewise Community Advisory Committee is to promote fire safety in the Wildland Urban Interface (WUI) environment within the Commonwealth through prevention mitigation endeavors. The Advisory Committee shall use as its blueprint, Pennsylvania Firewise Community Program Model documents, in concert with the National Firewise Community/USA program, to foster development, planning, and mitigation strategies for the best defense at reducing wildfire threats in our state, woodlands, and residential developments.

The Pennsylvania Bureau of Forestry has conducted an independent wildfire hazard risk assessment for the various municipalities across Forest County. Wildfire hazard is defined based on conditions that affect wildfire ignition and/or behavior such as fuel, topography, and local weather. As defined by the National Park Service fire hazard (or potential) is the difficulty of controlling potential wildfire. It is commonly determined by fire behavior characteristics such as rate-of-spread, intensity, torching, crowning, spotting, and fire persistence, and by resistance-to-control. It may be partitioned into particular components such as crown-fire hazard. Carey and Schumann (2003) document that fire hazard reduction is a continual process that cannot be accomplished by a single prescribed fire, or by analogy, thinning treatment (Brown et al., 2003). Crown fire hazard is a physical situation (fuels, weather, and topography) with potential for causing harm or damage as a result of wildland fire (Scott and Reinhardt, 2001). Based on this assessment, two municipalities within Forest County have a high wildfire hazard potential – Howe and Jenks. Harmony, Tionesta, Tionesta Borough, Green, Kingsley, Hickory, and Barnett are considered to have medium wildfire hazard potential.

Forest and Warren County solicited an independent contractor to prepare a county wide community fire protection plan for each county. An initial meeting on June 27, 2012 was held to bring the stakeholders together and begin the planning process. The core team consisted of Doug Carlson – Forest County Conservation & Planning, Donna Zofcin – Forest County Conservation & Planning, Dan Glotz- Planning Warren County, Cecile Stetler – Pennsylvania Department of Conservation and Natural Resources, and Peter To – Allegheny National Forest. Wildland Fire Associates was hired to conduct the planning process and generate the plans.

Several homeowners in the planning area are actively practicing the fire mitigation measures recommended by FireWise, a tool designed to protect homes and other property from the impacts of a wildfire. However, other homeowners have taken little or no action to protect their properties from wildland fire. **The inconsistent application of FireWise mitigation measures may place their neighbors at increased risk from wildfire.**

2.0 Introduction

Prior to European settlement, over ninety percent (90%) of Pennsylvania's land area was forested. Today, 60% of the state is still forested, but much of this forest is fragmented by non-forest uses such as roads, utility rights-of-way, agriculture, and housing: only 42% is interior forest habitat, and some of the species that depend upon interior forest habitat are in decline (Goodrich et al. 2003). In addition to habitat fragmentation, forest pests, acid precipitation (which causes nutrient leaching and stunted growth), over-browsing by deer, and invasive species also threaten forest ecosystem health.

OVERVIEW OF FOREST COUNTY NATURAL FEATURES

The climate, topography, geology, and soils are key to the biogeography of species, and are particularly important in the development of ecosystems (forests, fields, wetlands) and physical features (streams, rivers, mountains) that occur in a region. Anthropogenic disturbance has been influential in forming and altering many of the ecosystems in the unglaciated Allegheny Plateau region, resulting in the extinction of some species and the introduction of others. These combined factors provide the framework for locating and identifying exemplary natural communities and species of special concern in the county. The following sections provide a brief overview of the natural history of Forest County.

Climate

The climate in Forest County is humid and temperate. Based on temperature and precipitation data recorded at Tionesta, the mean annual temperature for the region is 46o F (7.8◦ C). In winter, the mean temperature is 32.2◦ F (0◦ C), with an average daily minimum temperature of 22o F (-5.6◦ C). In summer, the mean temperature is 60◦ F (15.6◦ C) and the average daily maximum temperature is 72◦ F (22.2◦ C; NCDC [n.d.]). The growing season, calculated as the probable number of days that the daily minimum temperature will be higher than 32◦ F, ranges from approximately 126 to 165 days, depending on aspect and elevation. Precipitation is evenly distributed throughout the year, but is significantly heavier on the windward, west facing slopes than in the valleys. The average annual precipitation is 43in. (109 cm), while the average annual snowfall is 74 in. (188 cm; NCDC [n.d.], Cerutti 1985).

Physiography and Geology

A physiographic province is a geographic region in which all parts are similar in geologic structure and climate and which has a unified geomorphic or surficial history. Physiography relates in part to a region's topography and climate. These two factors, along with bedrock type, significantly influence soil development, hydrology, and land use patterns of an area. Additionally, both physiography and geology are important to the patterns of plant community distribution, which in turn influences animal distribution. Because of the differences in climate, soils, and moisture regimes, certain plant communities would be expected to occur within some provinces and not others.

Forest County lies entirely within the High Plateau Section of the Unglaciated Appalachian Plateau (or Allegheny Plateau) Physiographic Province. Broad, rounded to flat uplands with deep, angular valleys characterize the High Plateau Section. The stream drainage pattern of the Unglaciated Allegheny Plateau is dendritic, resembling the branching of trees.

The bedrock geology in Forest County was formed during the Pennsylvanian, Mississippian, and Devonian Periods of the Paleozoic Era (about 280 million to 405 million years before the present). During that span of time, repeated sea advances and retreats deposited sands, silts, clays, and coals, which in turn formed the sequence of sedimentary rocks that are found in the county today. Minor uplift occurring about 200 million years ago, caused in part by the Allegheny Orogeny (mountain building event), added to the present bedrock structure. Since that time, streams have eroded and dissected the plateau, exposing the younger rock at the higher elevations and the successively older rock of the valley walls and bottoms. The surficial geology of the county is dominated by sandstone, shale, siltstone, and conglomerates, with coal and limestone found in lower, or older strata (Cerutti 1985).

Vegetation

Forest County lies within the hemlock-white pine-northern hardwood forest region of Braun (1950) and the hemlock-northern hardwood forest and Appalachian oak forest types of Kuchler (1964). Prior to European settlement, the forests of the Unglaciated Allegheny Plateau were dominated by hemlock (Tsuga canadensis) and American beech (Fagus grandifolia) on moister plateaus and stream valleys, and oak-chestnut (Quercus rubra, Q. montana, Castanea dentata) on drier ridges and outcrops (Marquis 1975, Whitney 1990, Abrams and Ruffner 1995).

Prior to 1890, small stands of white pine and hemlock were selectively cut, leaving much of the virgin forest intact. Following the advent of logging railroads and specialized locomotives in the late 1800s, the Allegheny Plateau was almost entirely clear cut. Virtually everything extracted from the forest had economic value: hemlock bark was used in tanning leather; logs were processed for lumber, railroad ties, shingles, barrel staves, lath, furniture, and tool handles; distillation produced acetic acid, wood alcohol and other chemicals; homes were heated and power was generated using slabs, edgings, and sawdust (Marquis 1975). The miles of narrow gauge rail bed running up the tributary valleys remain as evidence of the massive clearings that began over 100 years ago. Fires often followed the cuttings - many ignited by locomotive sparks, some begun intentionally - and for some years, parts of the plateau appeared as a ravaged landscape. The extensive logging that occurred between 1890 and 1930 produced the Allegheny hardwood forest type that now covers much of the region. Dominant tree species of this forest type include black cherry (Prunus serotina), red maple (Acer rubrum), sugar maple (A. saccharum), and yellow birch (Betula lenta) (Marquis 1975, Whitney 1990, Abrams and Ruffner 1995).

2.1 Policy Guidance

Though wildland fires play an integral role in many forest and rangeland ecosystems, decades of effort directed at extinguishing every fire that burned on public lands has disrupted many of the natural fire regimes that once existed. Moreover, as more and more communities develop and grow in areas that are adjacent to fire-prone lands in what is known as the wildland urban interface (WUI), wildland fires pose increasing threats to people and their property (USDI/USDA FS 2000).

The National Fire Plan (NFP) was developed in August 2000, following a landmark wildland fire season, with the intent of actively responding to severe wildland fires and their impacts on communities while ensuring sufficient firefighting capacity for the future. The NFP addresses, five key points: firefighting, rehabilitation, hazardous fuel reduction, community assistance, and accountability (USDI/USDA FS 2000).

The NFP continues to provide invaluable technical, financial, and resource guidance and support for wildland fire management across the United States. The USDA Forest Service and the Department of the Interior are working together to successfully implement the key points outlined in the NFP by taking the following steps:

1. Assuring that necessary firefighting resources and personnel are available to respond to wildland fires that threaten lives and property.
2. Conducting emergency stabilization and rehabilitation activities on landscapes in communities affected by wildland fire.
3. Reducing hazardous fuel (dry brush and trees that have accumulated and increase the likelihood of unusually large fires) in the country's forests and rangelands.
4. Providing assistance to communities that have been or may be threatened by wildland fire.
5. Committing to the Wildland Fire Leadership Council, an interagency team created to set and maintain high standards for wildland fire management on public lands.

Congress, the Administration, states, tribes, local governments, and many others throughout the country recognized that achieving the key points outlined in the NFP was a long-term challenge. A series of strategy documents, the Healthy Forest Initiative, and the Healthy Forests Restoration Act provided the framework necessary to lessen risks to people and restore forest and rangeland health by addressing hazardous fuel buildup on public lands and reducing the threat of wildland fire.

A key principle- coordination- was stressed when the U.S. Department of the Interior and the U.S. Department of Agriculture prepared a joint strategy for addressing hazardous fuel to reduce the risk of catastrophic wildland fires on more than 180 million acres of public forest, woodlands, and rangelands. The 60-page report, *Protecting People and Natural Resources – A Cohesive Fuels Treatment Strategy*, outlines a coordinated approach to fuels treatment adopted by the five major federal land management agencies: Bureau of Indian Affairs, Bureau of Land Management, U.S. Fish and Wildlife Service, National Park Service, and USDA Forest Service (USDI/USDA FS 2006). It describes practices that have worked since the agencies began collaborating on the strategy and establishes a framework for future priority-setting, accountability, and partnerships to reduce the fuel buildup that contributes to large destructive fires. Four principles guide the strategy:

1. Prioritization: First priority should be given to the wildland urban interface (WUI) and second priority to areas outside the WUI. Priority treatments must concentrate on sites where vegetation is most likely to support catastrophic fires that threaten vital resources or locations of particular value to local communities. In addition, non-WUI treatments must be applied to areas where fuel loads could quickly increase to dangerous levels without active management.
2. Coordination: Coordinating land management activities, including fuels reduction, timber sales, insect and disease eradication, habitat improvement, watershed improvement, and other vegetation management activities, is key to maximizing their combined benefits toward overall fuels management objectives and achieving a well-coordinated fuels management program.
3. Collaboration: Each year's federal program should increasingly reflect the input and priorities of local, tribal, and state interests.
4. Accountability: The strategy builds in accountability through an approved monitoring plan and state-of-the-art geographic information system outputs, assuring continued improvement in the ability of federal land managers to systematically track and support program planning, implementation, and effectiveness.

The strategy outlined in the document provides a strategic and realistic approach for reducing fuels on federal lands by focusing on specific goals that address the multiple factors that influence fuels treatments and by working collaboratively to achieve them. These four key principles are incorporated in this risk/hazard assessment.

The Cohesive Fuels Treatment Strategy aims to lessen risks from catastrophic wildland fires by reducing hazardous fuel buildup in forests and woodlands and by reducing threats from flammable invasive species in rangelands, with an emphasis on protecting communities.

2.2 The Fire Environment

The fire environment is defined as surrounding conditions, influences, and modifying forces that determine wildfire behavior[1]. Firefighters recognize these three components of the fire environment: **weather**, **topography**, and **fuels**. These components affect the likelihood of a fire starting, the speed and direction at which a wildfire will travel, the intensity at which a wildfire burns, and the ability to control and extinguish a wildfire. Although weather and topography cannot be changed, the fuels (or vegetation) can be modified.

Weather – Dry, hot and windy weather increases the likelihood of a major wildfire. These conditions make ignition easier, allow fuels to burn more rapidly, and increase fire intensity.

Topography – Of all the topographic features, steepness of slope most influences fire behavior. As the steepness of the slope increases, the fire spreads more quickly. Other important topographic features

[1] Adapted from US Fish and Wildlife Service, Bureau of Land Management, National Park Service, Bureau of Indians Affairs, and USDA Forest Service, *Living with Fire*.

include aspect (south and south-west facing slopes usually have more fires) and narrow, steep drainages, which can significantly increase the rate of spread.

Fuel – Fuel is required for any fire to burn. In regard to wildfire, fuels almost always consist of living vegetation (trees, grasses, shrubs, and wildflowers) and dead plant material (dead trees, dried grasses, fallen branches, pine needles, etc.). The amount, size, moisture content, arrangement, and other fuel characteristics influence ease of ignition, rate of fire spread, length of flames produced, and other fire behavior descriptors.

Wildfires can spread in a variety of ways. The three most common ways are by flames generated by burning material heating and burning adjacent fuel, by heat from the fire igniting fuels above the fire from below, and by embers carried by the wind or convection column ahead of the flaming front. Many homes and outbuildings are lost when embers, carried ahead of the main fire, ignite fuels on the roof or are blown into attic crawl spaces or eave vents.

2.3 Wildland Urban Interface

Throughout this plan, the term wildland urban interface will come up again and again. The following explanation was adapted from *USDA Forest Service Gen. Tech. Rep. PSW-109* (1989) and the *Federal Wildland Fire Management Policy and Program Review, Final Report* (1995).

The wildland urban interface (WUI) is defined as the line, area, or zone where structures, and other human development meet or intermingle with undeveloped wildland or vegetative fuels.

There are three types of wildland urban interface, each with its own demographic characteristics and land management problems.

… Mixed Interface or Intermix

… Classic interface

…Occluded interface

The Intermix – The intermix ranges from single homes or other buildings scattered throughout the wildland area to medium-sized subdivisions. Typical are summer homes, recreation homes, and farms in a wildland setting. When a fire starts, the individual homes are very hard to protect because few fire agencies have the resources to provide an engine or two for each house that may be threatened in a large fire.

The Classic Interface – By far, the greatest numbers of people live in (and are currently moving into) what can be called the classic interface. This is the area where homes, especially new subdivisions, press against the wildland. Fires starting in adjacent wildland areas can propagate a massive flame front during a wildfire, and numerous homes are put at risk by a single fire that sometimes overwhelms fire protection forces and water supplies. An example of the classic interface, in Forest County, is the hunting camps.

The Occluded Interface – An occluded interface is characterized by isolated areas of wildland within an urban area. The same demographic trends that influence the classic interface affect this one. As cities grow together to make a super city, islands of undeveloped land are left behind. Sometimes, these are specifically set aside as natural parks. Again, they may be steep, difficult places that are unsuitable as building sites. Frequently, they present a fire threat to adjacent homeowners. Examples in the planning area include undeveloped lots in subdivisions.

The type of intermix is not always obvious. Small towns and villages may contain both classic and intermix areas depending upon how the "downtown" tends to mix with wildland vegetation at the city's fringes.

2.4 Background and History of Accomplishments

Prior to human occupation, fire and climate interacted to determine the vegetation on the landscape. Since then, human activity; fire suppression policies; domestic animals; the combined impacts of drought, insects, and disease; and introduced species (especially invasive plants) have been added to the equation.

Wildfires take place in less developed or completely undeveloped areas, spreading rapidly through vegetative fuels. They can occur any time of the year, but mostly occur during long, dry, hot spells. Any small fire, if not quickly detected and suppressed, can get out of control. Most wildfires are caused by human carelessness, negligence, and ignorance. However, some are precipitated by lightning strikes and in rare instances, spontaneous combustion. Wildfires in Pennsylvania can occur in open fields, grass, dense brush, and forests.

Forest County has a forested area of over 398 square miles which is 93% of the county. Allegheny National Forest, State Game Lands 24, Cornplanter State Forest, and part of Cook Forest State Park make up a majority of the county land. (FCHMP - draft 2014). The Allegheny National Forest alone comprises forty three (43%) percent of the County's land area. The potential geographic extent of wildfires is quite large. In 1990 a 601 acre fire occurred in the County, this illustrates the potential for large fires in Forest County. Under dry conditions or droughts, wildfires have the potential to burn forests as well as croplands. The greatest potential for wildfires is in the spring months of March, April, and May, and the autumn months of October and November. In the spring, bare trees allow sunlight to reach the forest floor, drying fallen leaves and other ground debris. In the fall, dried leaves are also fuel for fires. Ninety eight percent of wildfires in Pennsylvania are caused by people, often by debris burns (DCNR, 2009).

Table 1 is a list of past fire occurrences for Forest County by year from 1991 through 2013 (DCNR Bureau of Forestry reportable fires, Stelter).

Year	No. of Fires
1991	7
1992	2
1993	0
1994	3
1995	4
1996	2
1997	2
1998	1
1999	2
2000	4
2001	5
2002	0
2003	1
2004	0
2005	2
2006	1
2007	1
2008	0
2009	1
2010	1
2011	0
2012	0
2013	0

Table 1 Reported Fires, Bureau of Forestry

In addition to the growth factors, the rapid development of oil wells and well infrastructure on federal, state, and private lands has rapidly changed the fuel arrangements throughout the County. The potential impacts of the Hemlock Wooly Adelgid on Eastern Hemlock is also a concern due to its impacts on the County's forested lands.

2.5 Core Team

A core decision making team composed of the Forest County Planning Department, Warren County Planning Department, the State of Pennsylvania Department of Conservation and Natural Resources, the Allegheny National Forest, and Wildland Fire Associates was formed.

An initial meeting of the core team was held on June 27, 2012 in Warren, PA. The purpose of the meeting was to identify stakeholders, encourage participation and define the roles they would play in the planning process and in protecting communities from the impacts of wildfire.

2.6 Methodology

The core team began by listing key stakeholders and constituencies whose involvement should be sought. Individual team members were given assignments to gather data and other information needed to complete the plan. The County engaged the services of a contractor, Wildland Fire Associates, LLP to recommend treatment options and to draft and finalize the plan.

As part of the process, communities and townships located in the county were assessed by local fire departments. The assessments were used to determine their vulnerability to a catastrophic wildfire. The results of the assessment were included in the base map and used by the core team to identify areas of concern and make decisions.

The contractor gathered comprehensive data sets that were used to develop a based map of the area and adjacent landscapes of interest. The data was used to make recommendations regarding areas needing protection and for establishing risk-reduction priorities.

The wildland urban interface is defined as the line, area, or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels. A 1.5- mile buffer standard was adopted, regardless of land ownership, to define the Wildland – Urban Interface.

The planning process and resulting recommendations also recognized the importance of the following premises when developing and implementing the CWPP for the county:

- It is important that the communities and stakeholders fully support the plan. To successfully compete for and receive grants, the community must be willing and ready, to the extent necessary, to actively participate in each identified project.
- Actions must be taken by all landowners to improve the safety of firefighters and the public in the event of a wildfire and to reduce the likelihood of a fire escaping initial attack and threatening nearby structures or other lands.
- The plan will identify near-term and intermediate actions, as well as future treatments and follow-up maintenance activities. It is necessary to recognize the importance of attempting to properly sequence treatments on the landscape by working first around and within the communities and subdivisions, and then moving further out in the surrounding landscape.
- It is quite likely, due to availability of funding, that the plan will be implemented in stages and completed based on established priorities.
- Mitigation measures should be cost effective to the extent possible.

The overriding treatment objective is to create a defensible space within a forest canopy that would be less likely to support a crown fire. As a result, a crown fire would revert to a surface fire and spot fires ignited in advance of a crown fire would also remain surface fires that could be more easily attacked by wildland firefighters. This makes it much easier to protect a structure or community against a high-intensity wildland fire. When fully implemented, the treatments will provide for safe and effective fire suppression actions while also considering the aesthetic values important to the local residents and other stakeholders.

2.7 Analysis Process

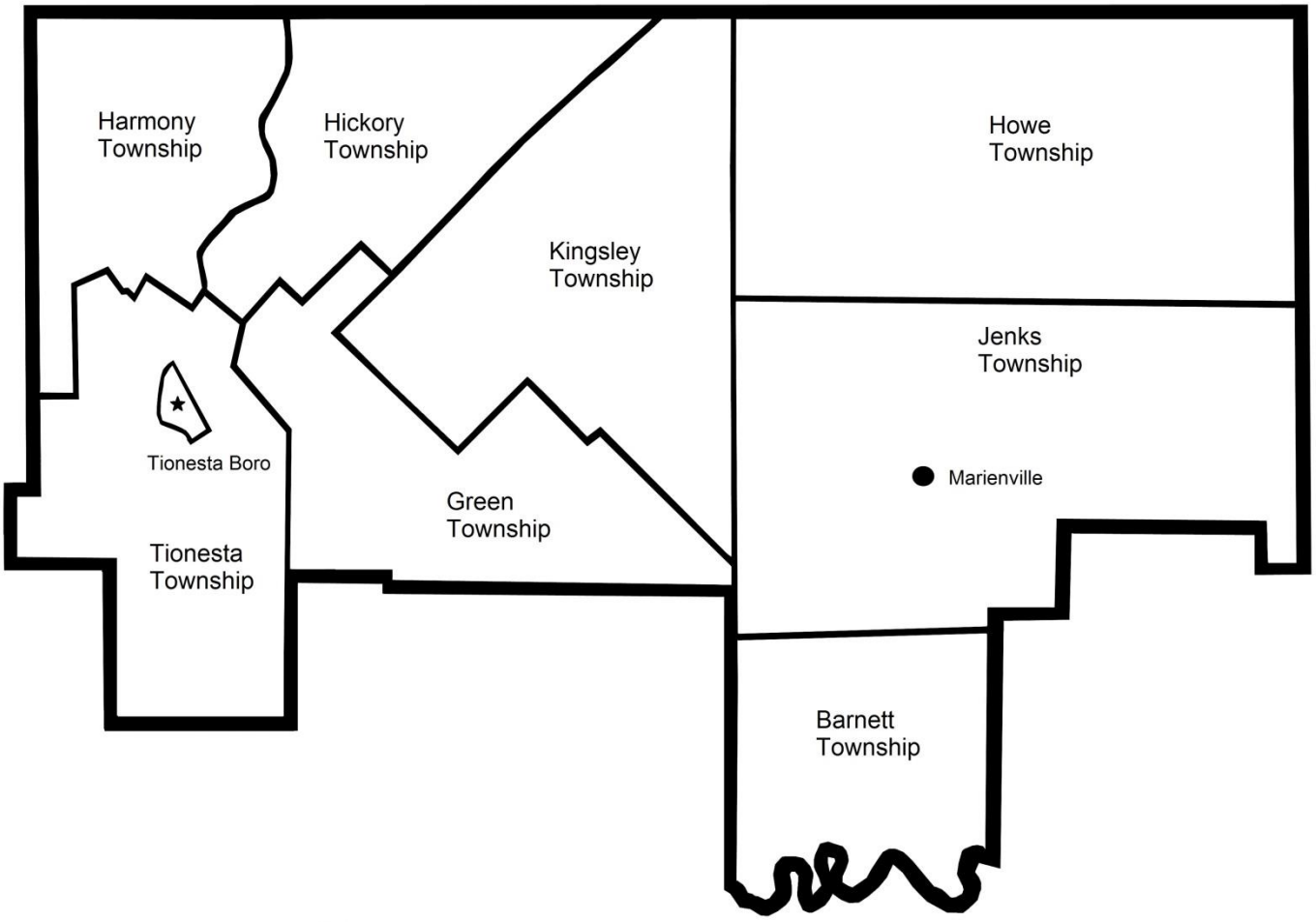
The data analysis completed for this plan is based on the Geographic Information System (GIS) techniques and data. The process used is similar to processes used throughout the United States by federal, state, and local agencies. The process starts with assembling the best available data in two key categories: fuels and values at risk that can be lost or damaged in the event of a wildland fire. The data layers are then ranked according to importance on a qualitative scale, in this case 1-4. This qualitative scale is numerical in nature in order to take advantage of the efficient spatial processing capabilities of GIS.

After the ranking process is completed, the resulting layers of data were reentered into a weighted overlay analysis. Simply put, the data layers are assigned a weight based on relative importance in relation to each other and then added together for a numerical ranking (low to extreme).

3.1 Planning Area Boundaries

Map 1 is an overview of the municipalities and townships that make up Forest County which outlines the planning area boundaries.

Map 1



3.2 Planning Process

The publication *Preparing a Community Wildfire Protection Plan: A Handbook for Wildland-Urban Interface Communities* was used as a guide to prepare this plan. The steps outlined in the publication were used to identify tasks. The core team and the contractor reviewed the planning requirements, set various key parameters, developed a plan of action, and identified sources to acquire necessary documents and information required for the completion of the plan.

Meetings were held around the county, with core team members, local fire departments, and others to gather information and receive input, obtain recommendations, identify potential projects, make assignments, and set deadlines.

A DVD was produced and provided to all 5 fire departments in Forest County, along with maps with the initial Risk Assessment for each area as well as infrastructure. Hazard analysis forms were provided and the fire departments were encouraged to conduct the assessments and gauge the risk in their response areas.

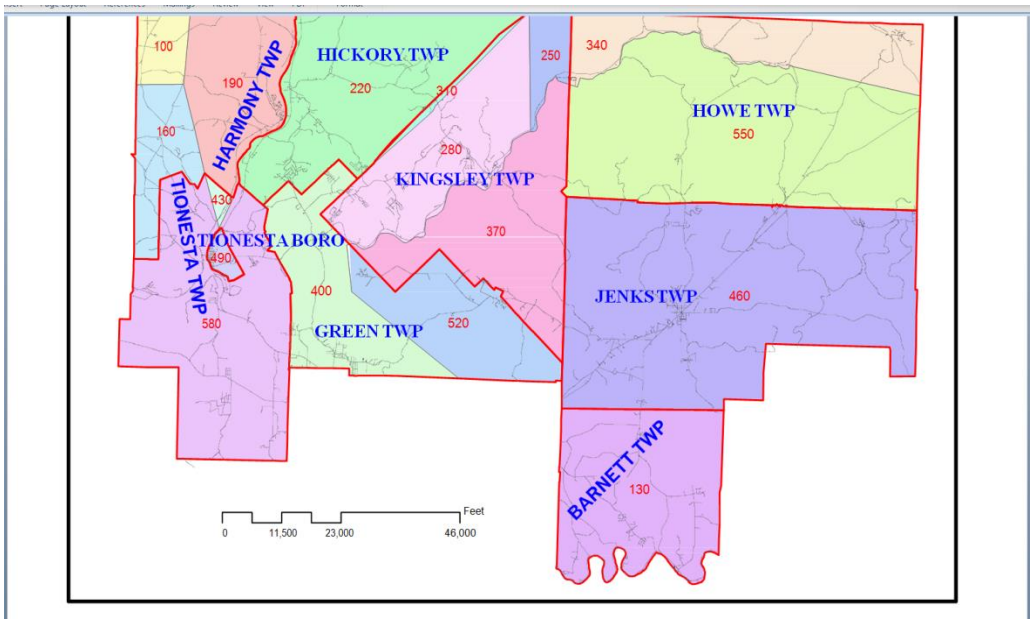
The contractor received necessary information from members of the core team and others.

A final hard copy and an electronic copy of the final draft plan will be presented to the County. Once the plan has been approved by the core team and is approved by Forest County, it will be available for distribution to the stakeholders, including land and property owners; town, county, state and federal officials, agencies, and departments; recreational users; local fire departments, and fire protection districts; business owners; utility companies; other interested parties.

4.0 Wildland Fire Response

Wildland and structural fire suppression services in the County are provided by the township or municipality local fire departments (for a complete list of these departments see Map 2) as well as state and federal firefighters through mutual aid agreements.

Map 2 Forest County Fire Departments and infrastructure.



FOREST COUNTY
EMERGENCY SERVICE ZONES

Zone #	Fire Dept.	Police	Ambulance Service
100	Pleasantville VFD	PSP	Tionesta Ambulance
160	Tionesta VFD	PSP	Tionesta Ambulance
190	West Hickory VFD	PSP	Tionesta Ambulance
220	West Hickory VFD	PSP	Tionesta Ambulance
580	Tionesta VFD	PSP	Tionesta Ambulance
490	Tionesta VFD	PSP	Tionesta Ambulance
400	Tionesta VFD	PSP	Tionesta Ambulance
280	Tionesta VFD	PSP	Tionesta Ambulance
250	Sheffield VFD	PSP	Sheffield Ambulance
340	Sheffield VFD	PSP	Sheffield Ambulance
520	Marienville VFD	PSP	Clarion EMS
370	Marienville VFD	PSP	Clarion EMS
550	Marienville VFD	PSP	Clarion EMS
460	Marienville VFD	PSP	Clarion EMS
130	Marienville VFD	PSP	Clarion EMS

The level of response to an emergency is dependent upon time of day and day of the week as many of the firefighters work in neighboring communities. This factor can impact both response time as well as the number of responders.

Neighboring fire districts and the cooperators listed above have routinely supported each other during wildland fire suppression activities in the form of mutual aide – both within and outside of the wildland urban interface. The overarching goal has been the timely suppression of wildland fires in order to protect life and property.

4.1 Safety

A variety of safety issues are present in the planning area.

Oil and Gas infrastructure presents a variety of problems for local fire departments. Access is limited or restricted,

Figure 1 narrow access road

Often these sites are on one way, in-out roads, which limits safe egress in the event of a large wildland fire in the area.

Figure 2 gated access road

Pipelines, both above ground pipelines and buried pipelines are a concern

Figure 3 above ground pipeline

Figure 4 Buried pipeline

As are the tanks and pumping sites,

Figure 5 tank battery and pumping station

Figure 6 tank battery

and debris around these sites.

Figure 7 well site debris

Hunting camps and isolated homes are located on narrow, one way, in-out roads across the County. Some hunting camps are located across flowing creeks with no bridges to access the sites.

Figure 8 Hunting camp with leaves on roof

Many of these roads and associated power lines need brush clearing or canopy reduction work to allow easy access to emergency vehicles. Many County and private roads, which provide access to farms and scattered home sites, are very narrow and are sometimes located in narrow valleys or on hillsides with heavy vegetation.

Figure 9 Power line in trees

First responders and incident commanders must size up the situation and develop their plan of attack accordingly.

Figure 10 Power line

5.0 Community Description

Forest County was created on April 11, 1848, from part of Jefferson County. The county was enlarged on October 31, 1866, when part of Venango County was incorporated into Forest County. Forest County is a rural eighth-class county in western Pennsylvania. The county seat is Tionesta Borough. According to the U.S. Census Bureau, the county has a total area of 431 square miles. 428 square miles are land and 3 square miles are water. The 2010 population was 7,716 people. Of this population, more than 2,500 are incarcerated in the state correctional institute located north of Marienville known as SCI Forest and an additional 128 are located at the Abraxas Foundation northwest of Marienville. Forest County is composed of 1 borough and 8 townships.

Seasonal recreation's impacts vary in the County. With the spring, hunting and fishing season opens, and more visitors are camping and using their recreational homes. As summer progresses and more visitors are hiking, picnicking, etc., the risk of a human-caused fire increases as the fuels and vegetation reach maturity and begin to cure or dry. Fall hunting seasons, with the leaf fall, increase the risk of fire as hunters and campers light warming fires, sometimes abandoning them with the belief that the fire will "go out". In the fall, clean up and seasonal debris burning begins bringing with it an increased risk of fire.

5.1 Population and Demographics

Forest County is classified politically as an eighth class county. The 2010 population was 7,716 people. Forest County is composed of 1 borough and 8 townships. The populations per municipality are identified in table 2.3-1 below. Howe Township has 405 people but 128 are located at the Abraxas Foundation and Jenks Township has 3,629 people but 2,500 are located at SCI Forest. Population density is 18 people per square mile.

Table 2.3-1: Forest County Municipality Populations

Municipality	Population	Municipality	Population
Barnett Township	361	Jenks Township	3629
Green Township	522	Kingsley Township	363
Harmony Township	666	Tionesta Borough	483
Hickory Township	558	Tionesta Township	729
Howe Township	405		

Source: 2010 Census Bureau

Table 2 Screen capture of the 2010 Forest county Hazard Mitigation Plan, p 15

There were 2,511 households in 2010. 11.3% were married couples with children, 38.6% were married couples with no children, 4.3% were single parent households, 36.2% were single person households and 9.6% were other types of households. The average household size is 2.08 and the average family size is 2.67. Forest County has a median household income of $36,006.00 with a median per capita income of $14,306.00.

In Forest County 957 residents are under the age of 18, 5,341 are age 18-64 and 1,418 are age 65 or older. The median age is 43.0 within the county. In accordance with the 2010 census, 5,937 were white, 1,389 were black/African American, and 390 were other race (FCHMP 2013).

5.2 Topography

Forest County lies entirely within the High Plateau Section of the Unglaciated Appalachian Plateau (or Allegheny Plateau) Physiographic Province. Broad, rounded to flat uplands with deep, angular valleys characterize the High Plateau Section. The stream drainage pattern of the Unglaciated Allegheny Plateau is dendritic, resembling the branching of trees.

The bedrock geology in Forest County was formed during the Pennsylvanian, Mississippian, and Devonian Periods of the Paleozoic Era (about 280 million to 405 million years before the present). During that span of time, repeated sea advances and retreats deposited sands, silts, clays, and coals, which in turn formed the sequence of sedimentary rocks that are found in the county today. Minor uplift occurring about 200 million years ago, caused in part by the Allegheny Orogeny (mountain building event), added to the present bedrock structure.

Since that time, streams have eroded and dissected the plateau, exposing the younger rock at the higher elevations and the successively older rock of the valley walls and bottoms. The surficial geology of the county is dominated by sandstone, shale, siltstone, and conglomerates, with coal and limestone found in lower, or older strata (Cerutti 1985).

Forest County has a forest area of over 398 square miles which is 93% of the county.

Allegheny National Forest, State Game Lands 24, Cornplanter State Forest and part of Cook Forest State Park make up a majority of the county land. The Allegheny National Forest alone occupies forty three (43%) percent of the County. These areas include facilities for boating, camping, fishing, hunting, mountain biking, ATV trails, snowmobile trails and swimming.

Forest County has a forest type of Allegheny hardwoods, characterized by black cherry (Prunus serotina) and red maple (Acer rubrum), with smaller amounts of sugar maple (Acer sacchaarum), hemlock, American beech, ash (Fraxinus spp.), and birch (Betula spp.) (Whitney 1990). This forest type makes up more than half of Forest County's forests, while oak-hickory forest makes up approximately a fifth of the total forest (FIA 2009).

The southeastern part of the county holds the largest contiguous blocks of forest, comprised mostly of second and third growth forest stands; there are only a few known areas of old-growth forest in the county. The extent of remaining forest within the broad valleys of northern Forest County is very small.

Rich, alluvial soils deposited from streams and deep colluvial soils from erosion of the lower slopes of the ridges have made the valleys in the county prime agricultural and grazing areas.

Slopes over 25% have been identified as Steep slopes in Forest County by analysis of the USGS data and the Digital Elevation model created from this data. Steep slopes are generally unstable with potential erosion and sedimentation problems. Most notable are the steep slopes along the Allegheny River.

5.3 Weather

The climate in Forest County is humid and temperate. Based on temperature and precipitation data recorded at Tionesta, the mean annual temperature for the region is 46◦ F (7.8◦ C). In winter, the mean temperature is 32.2◦ F (0◦ C), with an average daily minimum temperature of 22◦ F (-5.6◦ C). In summer, the mean temperature is 60◦ F (15.6◦ C) and the average daily maximum temperature is 72◦ F (22.2◦ C; NCDC [n.d.]). The growing season, calculated as the probable number of days that the daily minimum temperature will be higher than 32◦ F, ranges from approximately 126 to 165 days, depending on aspect and elevation. Precipitation is evenly distributed throughout the year, but is significantly heavier on the windward, west facing slopes than in the valleys. The average annual precipitation is 43in. (109 cm), while the average annual snowfall is 74 in. (188 cm; NCDC [n.d.], Cerutti 1985).

The climate of the County is quite consistent season to season, with most moisture received through the winter/early spring and late spring/summer. The County experiences a bi-modal fire season: SPRING (mid March through late May and green up/leaf out) and FALL (late September through late November, senescence to leaf fall). During the remaining periods of the year the County experiences routine episodic precipitation events. These precipitation events provide the County with 40 – 50 inches of precipitation (average range) and an additional 50 – 100 inches of snow annually. If annual accumulated precipitation falls in this range, fire season severity is strongly influenced by the frequency pattern of precipitation events and the occurrence/association of wind events. The absence of snow pack on the forest has a direct influence on fire potential and severity/persistence.

6.0 Resource Management Considerations

6.1 Fire Regime Condition Classes (FRCC)

Schmidt, et al. (2002) examined land conditions in the United States with regard to the degree of departure of fire regimes from historical fire cycles due to fire exclusion and other influences. They characterized the landscape by 5 Fire Regime Groups and 3 Condition Classes. Appendix C of *Protecting People and Natural Resources – A Cohesive Fuels Treatment Strategy* (USDI/USDA FS 2006) provides guidance for the identification of the various fire regime groups and fire condition classes.

The predominant fire regime condition class in Forest County appears to be a Group V followed by a Group III in more populated areas. Group V represents areas which have a greater than 200 year fire return interval. Group III represents areas which have a 35 – 200 year fire return interval with Low and Mixed Severity fires. Table 3 gives a summary of the grouping used on the FRCC analysis

Group	Frequency	Severity	Severity description
I	0 – 35 years	Low / mixed	Generally low-severity fires replacing less than 25% of the dominant overstory vegetation; can include mixed-severity fires that replace up to 75% of the overstory
II	0 – 35 years	Replacement	High-severity fires replacing greater than 75% of the dominant overstory vegetation
III	35 – 200 years	Mixed / low	Generally mixed-severity; can also include low-severity fires
IV	35 – 200 years	Replacement	High-severity fires
V	200+ years	Replacement / any severity	Generally replacement-severity; can include any severity type in this frequency range

Table 3 FRCC descriptions

Figure 11 displays the Fire Regimes identified for Forest County by Landfire.

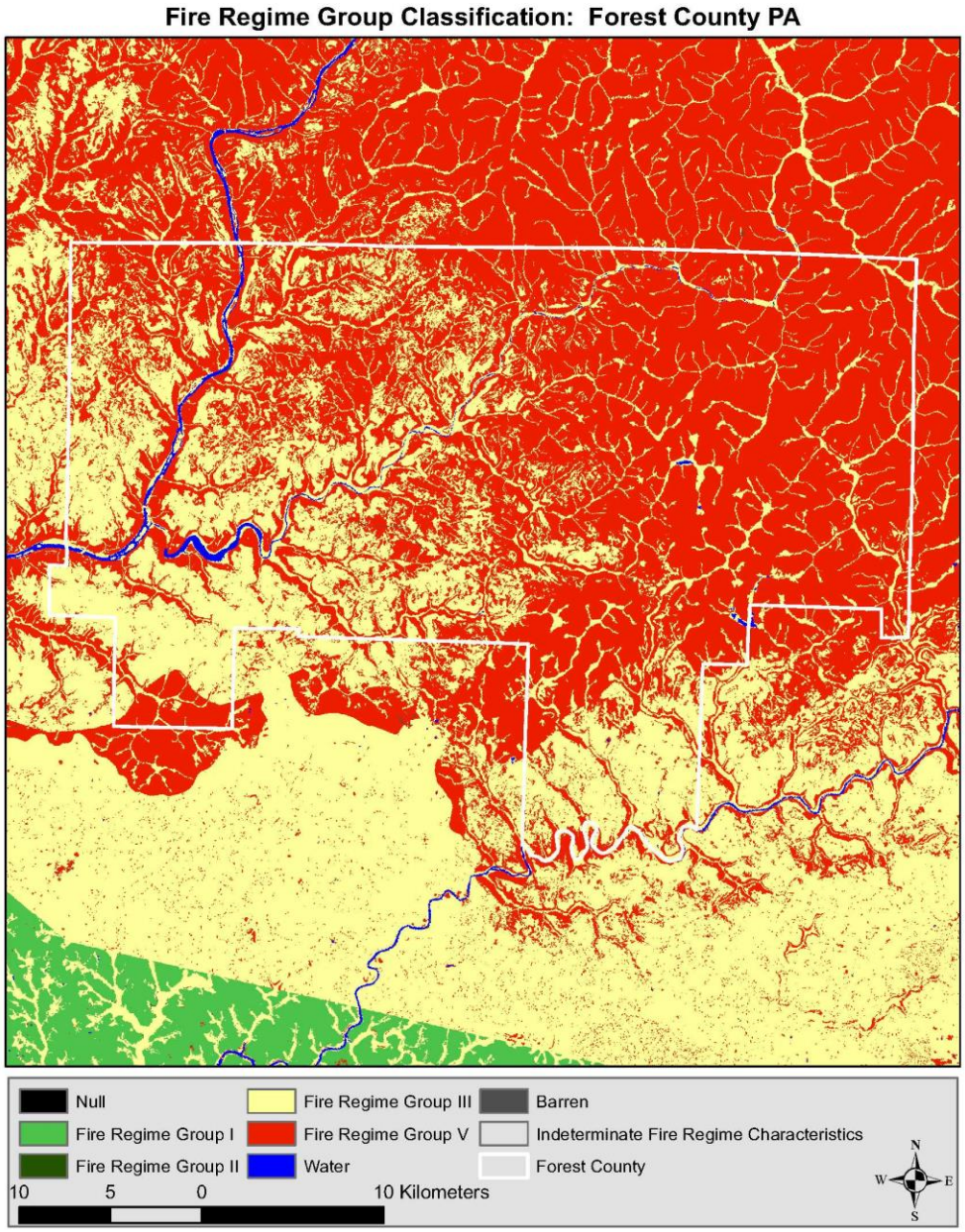


Figure 11 Fire Regimes of Forest County

Using Landfire's Regional maps, see Figure 12, Forest County has predominantly Condition Class 2 or Moderate Vegetation Departure from its natural fire regime.

Fire regimes are used as a tool describing fire's role in wildland ecosystems. Simply put, FRCC assessments determine how similar a landscape is to its natural or historical state. Fire regime condition classes are broken down into three categories: 1, 2, and 3. Landscapes that fall within the Category of FRCC 1 contain vegetation patterns and disturbance regime characteristic of the natural regime. FRCC 2 landscapes are those that are moderately departed from the natural regime, and FRCC 3 landscapes reflect vegetation and disturbances that are uncharacteristic of the natural regime. So essentially, an FRCC 1 has key ecosystem components intact, such as large old trees and soil characteristics that would naturally be found on that site. A landscape with an FRCC rating of 3 indicates that the land is very different from its natural regime in terms of its vegetation or disturbances or both. An FRCC 3 landscape has lost key ecosystem components. An example could be the loss of characteristic large trees due to uncharacteristic wildfires that occurred in uncharacteristic fuels.

FRCC summarizes land health, and is useful in planning and designing treatment alternatives for fuel modifications such as treating the WUI to modify expected fire behavior from wildland fire.

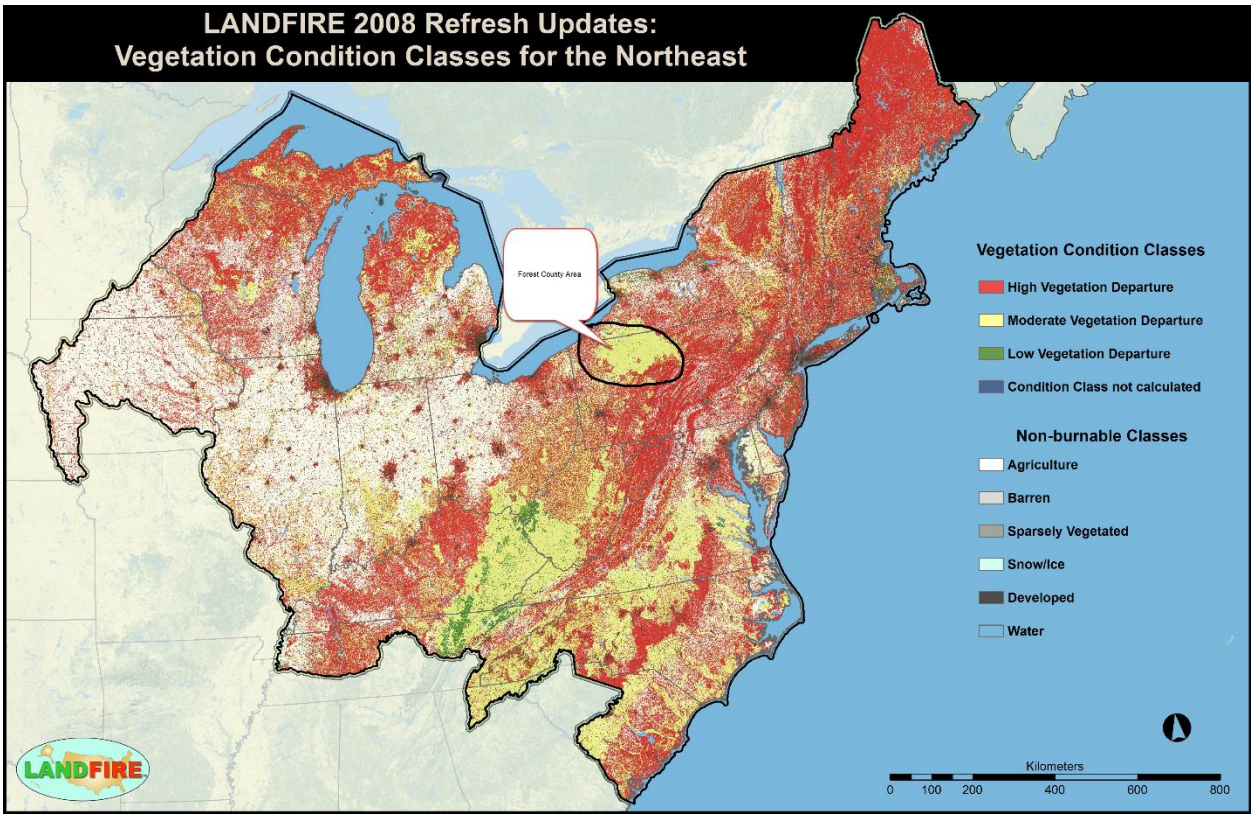


Figure 12 Fire Regime Condition Class

6.2 Invasive (Nonnative) Species Management Considerations

Forest County is host to several forest insects and diseases that could have a significant impact on the health and subsequent fire behavior of its forests.

The Hemlock Wooly Adelgid (Adelges tsugae) has been identified in Forest county in 2013 (see Figure 13). The Hemlock Wooly adelgid nymphs feed at the base of hemlock needles; the loss of fluid from the needles accelerates needle drop and branch dieback. The loss of fluid also stresses the tree and can result in a grayish-green appearance of the trees needles. Trees that are stressed in this manner are more susceptible to fire and the needles can act as more readily available fuel resulting in potentially more torching and crowning of hemlock during a wildland fire. Also, dead trees (snags) are a significant hazard to wildland fire fighters due to an increased possibility of tree fall during wind events and fires.

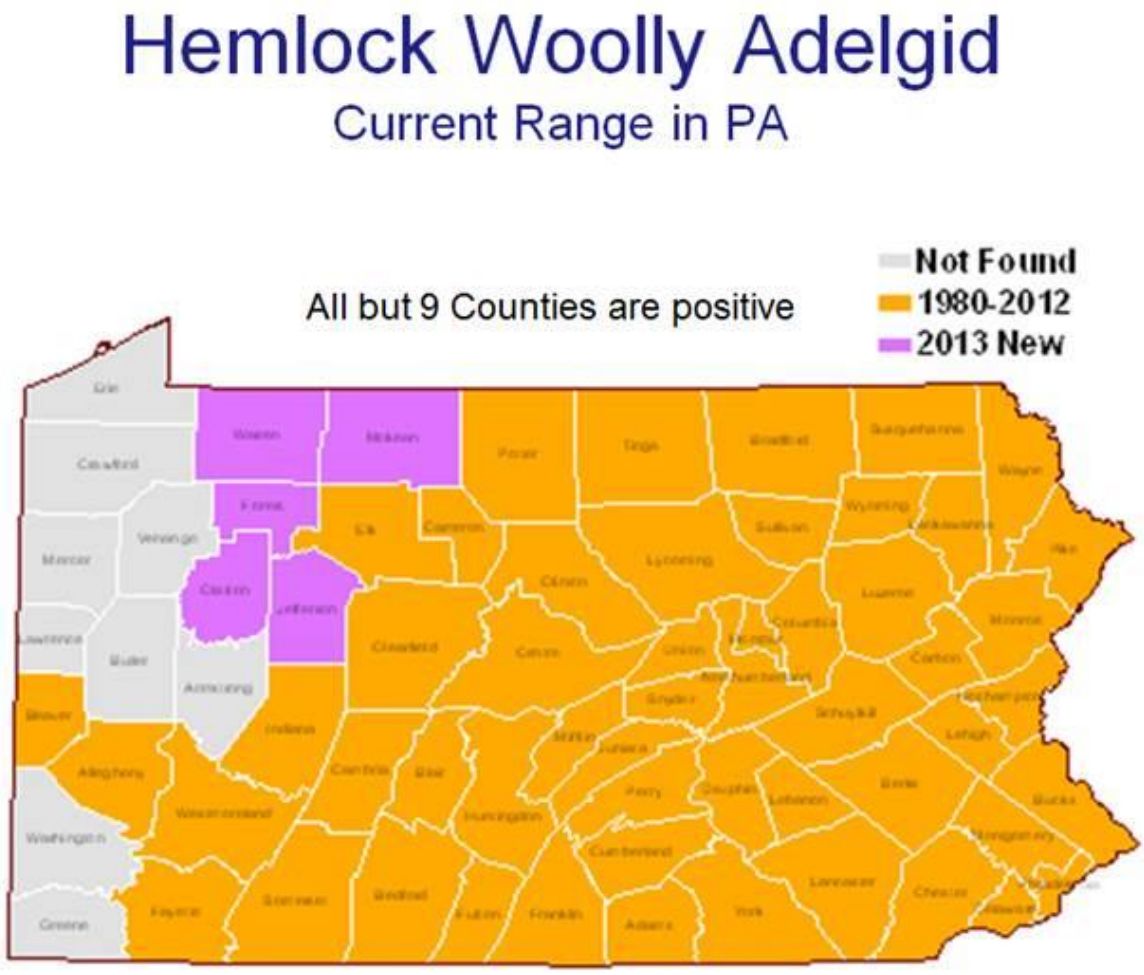


Figure 13 Hemlock Wooly Adelgid in Pennsylvania

The Emerald Ash Borer (Agrilus planipennis), is another introduced beetle that feeds on ash trees and is causing wide spread tree decline and mortality in the northeastern United States. Figure 14 illustrates the Emerald Ash Borers distribution in Pennsylvania as of 2013.

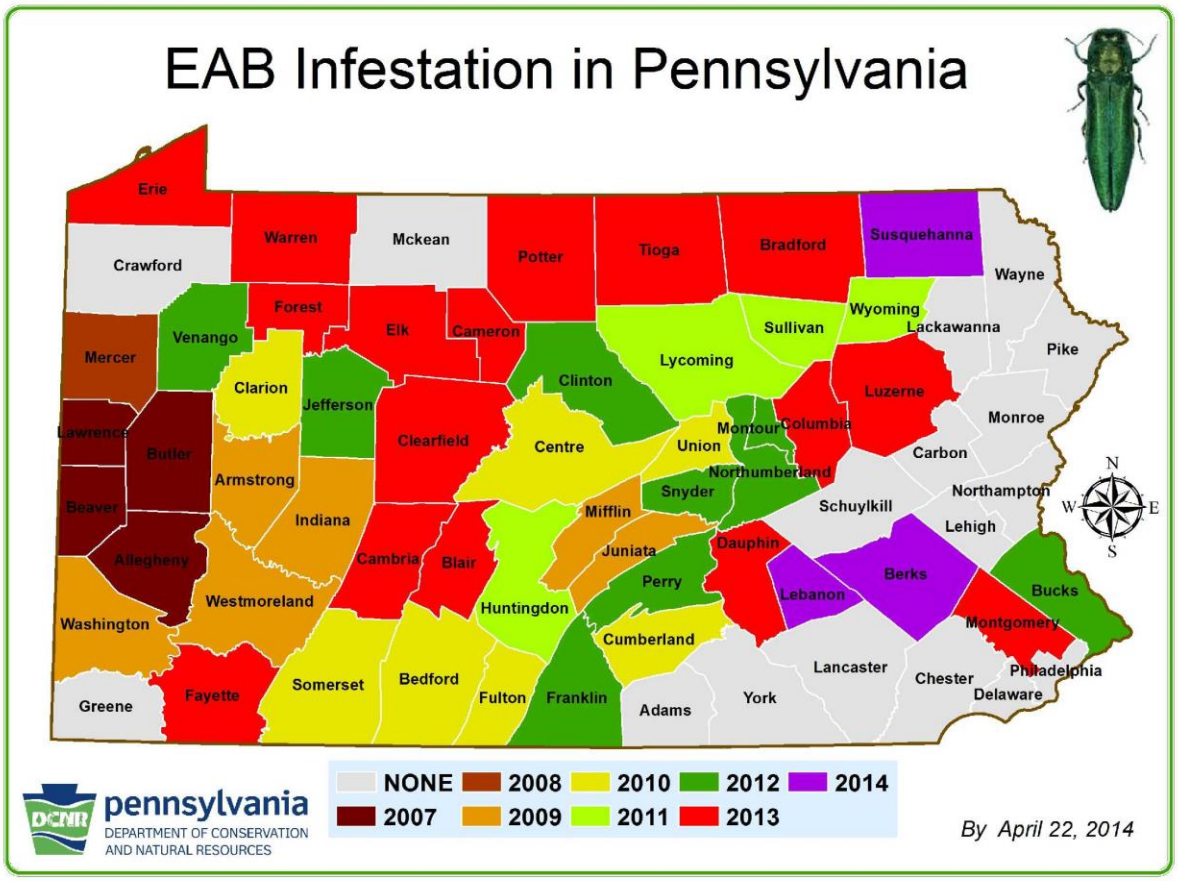


Figure 14 Emerald Ash Borer infestation in Pennsylvania.

Larval feeding in the bark and sapwood disrupts the flow of nutrients and water to the tree eventually killing the tree. These dead trees are more susceptible to wildfire and as snags are an increased hazard to fire fighters and recreational users of Pennsylvania's forests.

Beech Bark disease (Figure 15) represents a unique relationship between the beech scale insect (Cryptococcus fagisuga Lindinger) and the fungal pathogen Nectria coccinea var. faginata. Beech bark disease is a canker disease caused by the Nectria fungus. Feeding by the beech scale insect facilitates entry of the fungal pathogen. The scale insect and pathogen work in combination to kill patches of the inner bark. Cankers can expand and join to girdle and kill the tree. These stressed trees are again more susceptible to fire and drought and the dead trees can contribute to the overall intensity and difficulty of control for wild fires occurring in affected stands of beech.

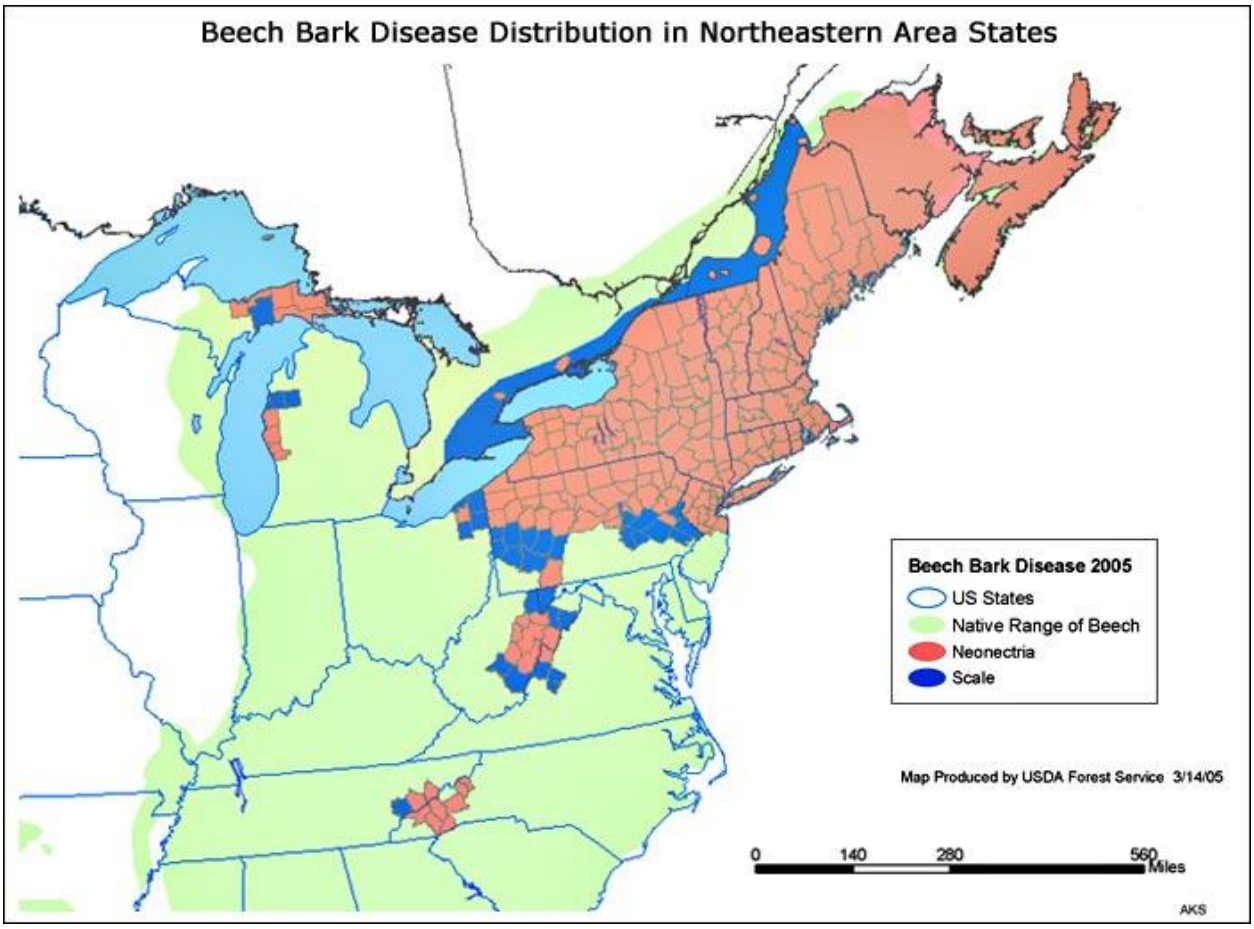


Figure 15 Beech bark disease in the north east as of 2005.

Other forest insects that have been monitored, such as the Gypsy moth, Asian longhorned beetle, sudden oak death, etc. have been reported in Pennsylvania and in Forest County. But at this time the impacts are not as significant as those mentioned previously in this section.

Individually or in combination these forest insects and disease are a building threat to Forest County's forests. The stressed trees are much more susceptible to fire, and the killed trees contribute significantly to the forest's fuel loading and the difficulty, or resistance to control, of fighting wildfires in affected areas. Not to mention the increased risk of snags falling, either from burning through at the stump during a wildfire or from a wind event. Falling snags have resulting in numerous fatalities of both recreationists and wildland fire fighters in the U.S.

7.0 Community Risk Assessment

7.1 Environmental Factors

An observed phenomenon that may become more of a factor in the near future is the gradual warming of the environment. Whether or not "climate change" or "global warming" is a human-caused phenomenon, warmer and drier climatic conditions during the last decade have come on the heels of wetter and cooler conditions that had favored increases in fuel accumulation. Whatever its cause, a warm climatic cycle can contribute in any year to earlier snowmelt, drought, and heavy, isolated rainstorms. The early loss of snow cover, patchy rainfall, and low soil water absorption during intense rainstorms may contribute to lower live and dead fuel moisture during the summer months.

Understanding and predicting the consequences of natural disturbance effects on landscapes is difficult. All of the natural disturbance factors – fire, insects, pathogens, wind, drought, etc. – are capable of affecting forest landscapes on various scales and may act individually or in combination.

7.2 Risk of Fire Occurrence

There have been 39 fires reported in the County since 1991 (Bureau of Forestry, Stelter, 2014). The Pennsylvania Department of Conservation of Natural Resources, Bureau of Forestry estimates that these reported events may only be approximately 15 percent of the total number of events that have actually occurred over that time. Information on wildfire events on private land is not available.

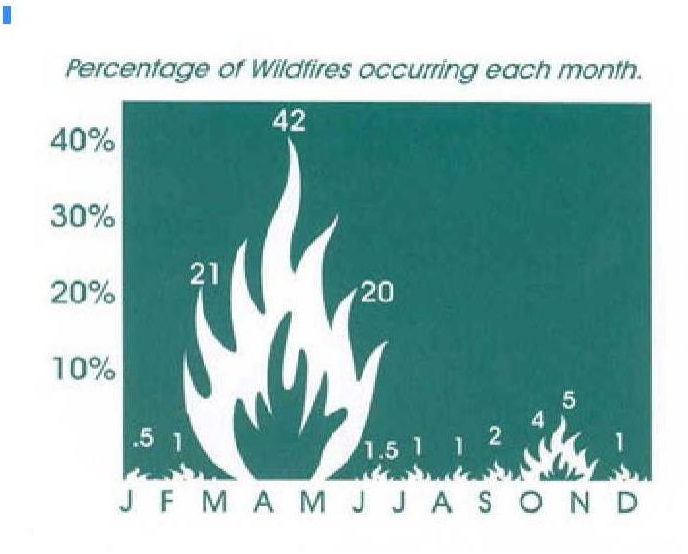


Figure 16 Wildfire per month DCNR

Figure 16 represents wildfire occurrence by month in Pennsylvania. The figure shows that the highest percentage of wildfires occurs from March through June as the spring burning season begins and the first of the States fire seasons occurs. This first season is more severe due to the plants still being relatively dry and just beginning to enter their green up phase. As the fire and burning season progresses through May, plants are greening up and new leaves and needles are at their highest live fuel moisture levels. The summer rains begin in May and June and fire season wanes. As the summer progresses and rainfall ends in September, the fall fire season begins as live fuels again enter full maturity/dormancy and are more available as fuel for wildfires.

7.3 Fire Behavior

Fine fuels comprised of hardwood leaf litter, cured grasses and brush are a significant factor in fire spread and intensity. A low relative live fuel moisture condition combined with a continuous fuel bed with available fine fuels elevates the potential for large fire growth.

Fuel loadings across the County have increased as a result of past fire suppression.

Fuel build-up is also caused by tree mortality from insect infestations and disease. Beech bark disease and the Hemlock Wooly adelgid are examples. The County has a history of frequent wind events (tornadoes, straight line winds) and ice damage, which contribute significantly to fuel accumulations. These disturbance events contribute to fuel bed development of larger fuels that will support wildland fire events. In the past 20 years, fuels generated by these types of events have been the sites of problematic wildland fire incidents.

Further adding to potentially significant fire behavior is the increased activity surrounding oil, gas, and mining developments. Well pads, electric lines, gas lines, and tank batteries are examples of the types of facilities that may influence fire size, intensity, behavior, and resistance to control.

Observed fire characteristics, such as flame length and rates of spread, provide wildland fire fighters with an understanding of the expected fire behavior and resistance to control. Terrain features and changes in fuel types can alter the observed fire behavior – flame length and rate of spread – but fire behavior will always dictate the most effective means necessary to control the fire.

7.4 Risk Assessment

When the key GIS layers – vegetation, improvements, sensitive environmental factors, and fuel condition class – were analyzed, four levels of risk were established: Low, Moderate, High, and Extreme. The various levels of risk to the values at risk are shown in Figure 17 and in Appendices.

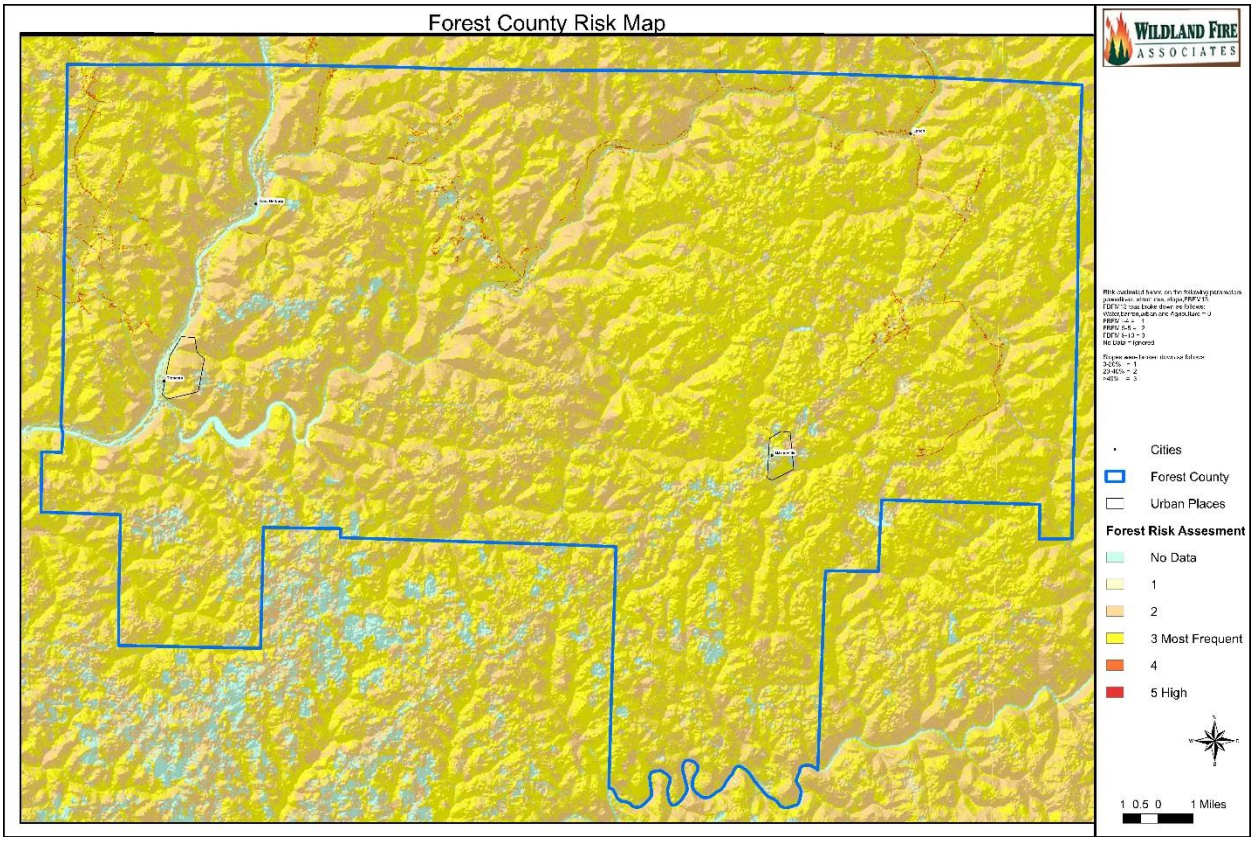


Figure 17 Risk Map for Forest County

Most of the County is designated as being at Moderate Risk, depending upon fuel type. Based on past experience, the contractor noted that factors such as heavy, often continuous concentrations of fuel and steep terrain could combine under adverse weather conditions or during periods of drought and contribute to an intense, rapidly moving wildfire that would be difficult to control. Individual risk maps, for each township, municipality, or city assessed are included in Appendices.

Individual infrastructure maps for each township, municipality, or city assessed are included in Appendices.

8.0 Recommendations for Reducing Fire Hazards

8.1 Purpose

The purpose of this section is to provide stakeholders and those living in the planning area with an overview of existing wildland fuel conditions and recommend a possible course of action that will reduce the impacts of a wildland fire to those living in the planning area.

8.2 Reduce Structural Ignitability

During our assessment, the principal recommendation for individual home owners is to reduce structural ignitability. Especially the hunting camps that were inspected and are discussed in more detail in 8.3.

When strong winds and hot, dry days lead to wildfires, it cannot be expected that fire engines park in front of homes to protect your family and possessions. As desirable as it may be, there simply aren't enough fire fighters or equipment to defend every home. In a matter of minutes, a wildfire can jump from a burning hillside, race through subdivisions, and destroy homes and neighborhoods.

Defensible space, the area between a house and an oncoming wildfire where the vegetation has been modified to reduce the wildfire threat, should be created to provide an opportunity for firefighters to effectively defend the house. In the event that firefighters are not available, defensible space also improves the likelihood of a home surviving without assistance. The goal of defensible space is to reduce the chances of a wildfire spreading onto a homeowner's property and igniting homes and other structures and to reduce the risk of loss from a wildfire. Immediately dispose of cleared vegetation when implanting defensible space treatments and maintain defensible space annually. For additional information about creating defensible space and fire safe practices, the Pennsylvania Department of Conservation and Natural Resources has a Firewise site at http://www.dcnr.state.pa.us/foresty/wildlandfire/firewise/index.htm .

To protect homes, families, and possessions, follow the steps outlined below – and make property "FireWise". To be FireWise carry out certain fire protection measures before a fire even starts. By following these simple fire safety steps to create defensible space, homes will have a chance to survive while firefighters work to bring the wildfire under control. The key elements are summarized below.

Access – Proper identification of your home is essential. During a major wildfire, firefighters from throughout the state (or even the nation) will arrive to assist local firefighters. They will rely on clear street signs and addresses to find your home.

Even if your street and house are clearly identified for firefighters, precious time can be lost if firefighters have difficulty getting to your house. Narrow roads, dead-end streets, steep driveways, and weak bridges can delay firefighters or prevent them from arriving at all; firefighting equipment is much larger and heavier than your family car or truck. Single lane roads or driveways should have turnouts at regular intervals with enough space to allow emergency vehicles and cars to pass. Road and street systems must be designed to provide safe emergency evacuation and fire department access. A minimum of two primary access roads should be designed into every subdivision and development. All

private and public streets should be constructed to provide two traffic lanes, each a minimum of ten feet wide. This is just enough space for a fire engine and car to pass each other. Curves and intersections should be wide enough to allow large fire equipment to easily pass and turn. Streets and driveways must not be too steep or have sharp curves - this can prevent emergency equipment from gaining access to your home. Roads, driveways, and bridges should be built to carry at least 40,000 pounds, the average weight of a fire engine. Dead-end streets and long driveways should have turn around areas designed as either a "T" or a circle large enough to allow fire equipment to turn around. Each of these steps will give firefighters a chance to find and protect your home. A few minutes delay can make a difference in saving your home.

Water Supply – Establish your Emergency Water Supply. Water supply is vital for a fire department to protect a threatened house or extinguish a burning one. Even a FireWise house may not be able to survive a wildfire without an emergency water supply. A minimum water storage supply of 2,500 gallons is recommended for use in emergencies. Once you have established an emergency water supply, you must make sure firefighters can get to it. If your water comes from a well, it is recommended that you have a gasoline-powered generator so firefighters can operate your pump during a power failure. For any emergency water supply, the outlet valve must be easily seen and visibly signed from the nearest road. You can obtain specific outlet, valve design, and thread requirements by contacting your local fire department.

Defensible Space – Your first defense against wildfire is to create and maintain a defensible space around our home. This does not mean your landscape must be barren. A defensible space is an area, either man-made or natural, where the vegetation is modified to slow the rate and intensity of an advancing wildfire. It also creates an area where fire suppression operations can occur and helps protect the forest from a structure fire.

Wildfire hazards can be effectively reduced by following these defensible space guidelines developed by the Pennsylvania Bureau of Forestry.

- The dimensions of a defensible space are subjective and depend on site characteristics, but typically a defensible space, on flat ground, extends a minimum of 75 feet around a home. This distance should be extended if the structure is located on a slope.
- Thin out continuous tree and brush cover around structures. The initial 15 feet around a structure should consist of an area in which all flammable vegetation is removed. Beyond the initial 15 feet, trees should be thinned to 10-12 foot crown spacing. Occasionally, clumps of 2 or 3 trees are acceptable for a more natural appearance if additional space surrounds them.
- Mow dry grass and weeds to a height of 6 inches or less for a distance of 30 feet from all structures.
- Prune tree branches within the defensible space up to a height of 10 feet above the ground. Dispose of all slash and debris left from thinning by either chipping and hauling them away or by piling and burning.
- Trim branches that extend over roof eaves. Remove branches within 150 feet of chimneys.
- Maintain the defensible space annually by removing debris, shrubs, and other vegetation that has accumulated during the year.
- Remove shrubs and small trees, or other potential ladder fuels from beneath large trees. Left in place, these fuels can carry a ground fire into the tree crowns.

- Stack firewood and wood piles at least 30 feet from any structure. Clear away flammable vegetation with 10 feet of these wood piles.
- Place liquefied petroleum gas (LPG) tanks and fuel storage containers at least 30 feet from structures. Clear flammable vegetation from within 10feet of all such tanks.
- Clean pine needles, leaves, and other debris from roofs and gutters. This will eliminate an ignition source for firebrands, especially during hot, dry weather.

Remember, after you have established your FireWise environment, you must maintain it regularly.

Trees and Brush – Many naturally occurring plants in our area are highly flammable during the summer and can fuel a wildfire, causing it to spread rapidly. Removing flammable native vegetation and replacing it with low-growing, fire-resistive plants is one of the easiest and most effective ways to create a defensible space. Select landscape vegetation based on fire resistance and ease of maintenance, as well as visual enhancement of your property. In general, fire-resistive plants grow close to the ground; have a low sap or resin content; grow without accumulating dead branches, needles, leaves, or other debris; are easily maintained and pruned; and are drought tolerant in some cases. If fire resistive plants are not available, vary the height of your landscape plants, and give them adequate spacing. The taller the plants, the more widely they should be spaced.

Other FireWise precautions – After you have created defensible space around your home, additional FireWise precautions may be necessary. Work with neighbors to clear common areas between houses and prune areas of heavy vegetation that may pose a threat to everyone. Avoid planting trees under or near electrical lines (they may eventually grow into or touch the lines in high winds, thus causing a fire). If part of your property extends outside the newly created defensible space and is heavily forested, thin trees to decrease fire hazard and improve forest health. Remove dead, weak, or diseased trees and trees that are obviously leaning – leaving a healthy mixture of older and younger trees.

Construction Design Materials – Your house may be vulnerable to a wildfire because of its design, construction, and/or location. When preparing to build, buy or remodel, know what to look for in a FireWise home. A few modifications to your construction plans can reduce the chance of your house catching fire or help it resist further damage if it does catch fire. Don't let your house become more fuel for a wildfire. If you are building a new house, evaluate your building site. Choose a site away from heavily vegetated areas. Set your structure a minimum of 30 feet back from ridges of cliffs; increase the distance if the home will be higher than one story.

Building Materials – Use fire resistive or non-combustible construction materials, combined with design techniques to prevent or slow the penetration of fire beyond your home's exterior. Whenever possible, use brick, rock, or stucco – they resist fire much better than wood. If you decide on a wood exterior, it is especially important that you follow FireWise practices.

Roof – Your roof has the largest surface area of your structure and is the most vulnerable part of your house. It can easily catch fire from a wildfire's wind-blown sparks. Use class A or B roofing materials, such as asphalt shingles, slate or clay tile, or metal.

Siding and Walls – Use fire resistive or non-combustible construction materials whenever possible. Use a minimum of Class III flame spread-rated siding material – stone, brick, and stucco are best. Walls should be constructed of fire-resistive materials from the ground to the roof overhang.

Other Considerations – Build on the most level portion of the property. Avoid ridge tops, canyons, and areas between high points on a ridge. These are extremely hazardous locations for houses and firefighters because they become natural chimneys, increasing the intensity of the fire. Roof eaves extending beyond exterior walls are also susceptible to flame exposure. Limit them in length and box or enclose them with fire-resistive materials. Windows are often overlooked as fire hazards but can be serious risks. The heat from a wildfire may be enough to ignite the furnishings inside your house through the windows. Minimize the size and number of windows on the downhill side of the house or the side that would most likely be exposed to a wildfire. Consider both size and materials for windows and sliding glass doors. Multi-paned glass provides insulation from trapped air and gives more protection from radiant heat than single-paned glass. It also reduces breakage potential from wind-blown debris. To prevent sparks from entering your home through vents, cover exterior attic, soffit, and under floor vents with metal wire mesh (no larger than 1/8 of an inch). Install eave and soffit vents closer to the roof line than the walls. Design decks so that they are not located at the top of a hill directly in the line of a fire moving upslope. Enclose the undersides of balconies and decks on slopes with fire resistive materials. If not enclosed these areas can trap flames and burning embers that can ignite your home. Use weed barrier fabric under deck and balcony areas to keep them free of vegetation. Cover chimneys and stove pipes with a non-flammable screen (mesh no larger than ½ inch).

8.3 Area Specific Recommendations

Area specific inspections and evaluations are designed to be carried out by the respective fire departments in each municipality or township. Of the 5 fire departments functioning in Forest County a total of 4 returned responses to the county planner and the contractor. Of these 5 departments, 2 departments returned evaluations and risk assessments as well as maps annotated with risk ratings, bridges, etc.

Based on this sampling the following results that would be applicable to the degree that the rest of the County conforms to the sample.

Generically, the majority of the hunting “camps” inspected and reported on had similar issues of:

- One way in-out roads
- Vegetation within 30 feet of the structures
- Flammable building materials were used in the construction of the dwellings
- Flammable structures were attached or adjacent to the building
- No water immediately available such as hydrants (dry or wet)
- A much longer response time from local fire departments due to the remoteness of the camps and road conditions getting to the camps
- Radio communications and cell phone coverage was limited in many of the hunting camp areas that were visited and inspected.

Individual homes that were inspected had very similar issues to the hunting camps:

- Narrow width roads
- Overhanging vegetation on narrow roads which could limit access of emergency vehicles
- Flammable construction materials on either the home and/or attached decks
- Flammable vegetation within 75 feet of the home site
- Areas that had poor cell phone or radio coverage
- A lengthened response time from the local fire departments

Implementing the FireWise practices outlined in 8.2 would greatly increase the likelihood of these homes and hunting camps surviving a wildfire event.

8.4 Fuel Treatment Projects

8.4.1 Introduction

Managing vegetation can be challenging due to soils, existing vegetation, rainfall patterns, and other weather phenomena. What may work on one site may not work on another, or a method may work under one set of conditions but may not work under different conditions at the same site. Therefore, it may be necessary to consider a variety of treatment options in order to find the one best suited for a specific project.

Other more subtle factors can come into play as well. For example, removing brush to create a fuel break, without addressing invasive species can be trading one problem for another. Soil disturbance should be kept to a minimum.

Projects and treatment options on federal lands must be consistent with the goals and objectives outlined in the appropriate land use plan, other planning documents covering the area to be treated, and the 2001 Federal Fire Policy. It must also be viable within the limitations of federal budgets.

An important factor to consider is that many of the projects, especially those involving light fuels, will require treatment in out-years. There is no guarantee that managers can receive funding for out-year treatment as part of the original project funding. It is often easier to receive funding for new projects than to receive funding to maintain past projects, especially if the existing project lowers wildfire risk from extreme to moderate. Therefore, it is important to include strong justification with a funding request for out-year treatment project funding. Current efforts to inform lawmakers and members of their staff about the importance of funding follow-up maintenance should be continued.

8.4.2 Current and Proposed Large-Scale Treatment Projects

At this time there are no known large scale treatment projects planned or in the planning process for Forest County. Additional planning and involvement of the local fire departments, private landowners, state and federal agencies will be necessary to begin this planning process.

Considerations for future projects should center on treating insect and disease outbreaks within the County – any mitigation of these outbreaks will result in a lessened threat to local communities. State, federal and county planners will be the best source of maps, and locations of such outbreaks.

8.5 Other Recommendations

During our analysis of Forest County and its wildland urban interface there were some common themes found within the emergency services for the County. Below are our recommendations for increasing the efficiency of Forest County EMS.

Forest County Coordinating Group

One of the themes that appeared was a lack of coordination between the various emergency services entities in Forest County. Our first recommendation would be to implement a board or panel that will serve as a coordinating group for EMS in Forest County. This will enable the County to develop a more common response to emergencies by insuring that all departments involved meet and work together. This will foster a common approach to incident communications, incident command protocols, and present a unified presence for EMS in the County. This group could also serve as the liaison between County EMS entities and state and federal partners. This partnership can increase the confidence and acceptance of the various entities among partners.

Planning Outreach

Another recommendation is to enlist the oil companies in the Wildland Urban Interface planning debate. This could bring to their attention the seriousness of the wildland urban interface situation with the county and potentially improve the coordination of their facilities and growth with the County and its partners.

Education and Outreach

- Issue press releases in the spring and fall to be carried in the local papers informing their readers about the importance of making their properties fire safe and/or promoting FireWise.
- Send direct mailings to all residents in Forest County including information about FireWise in the mailings, as well as the fire season outlooks.
- As part of the Fire Prevention Week activities in schools, distribute FireWise promotional materials to school-aged kids. This activity could take on an interagency flavor and involve the Pennsylvania State Forest Service, USDA Forest Service, and other local fire protection districts.

Drafting Point Signs – Drafting points (water sources for engines and pumpers) should be marked. The sign could be as simple as an 18 inch by 18 inch square sign, painted white, with DP painted in black. A white sign would be visible at night.

IpadTM – An Ipad or other similar electronic device capable of displaying maps, GPS locations of water sources, and pre-attack plans, for example, should be purchased and mounted in response vehicles, as determined by the fire chief.

8.6 Plan Update Process

This plan is designed as a dynamic document. Keep the core team alive to facilitate updates. It will be necessary to update as conditions change, new projects are added, or as projects identified in the plan are completed. The core team should meet annually in the early spring to review and update the plan to reflect these changes. Copies of the plan should be placed in 3-ring binders so that it can be easily updated in the future.

9.0 Summary and Conclusions

Building consensus will continue to be important within the core team and the communities and municipalities in the planning area. Regular meetings must be held to make the plan available to local residents and to solicit input and support the process. The plan must be updated to reflect the changes to the various communities and municipalities as new development takes place and initial projects are completed. Identifying and developing future projects should involve receiving input and comments from the communities and municipalities in the planning area. The core team must work cooperatively to achieve larger goals.

The members of the core team must be proactive when seeking additional funds to complete future projects. There will be ever-increasing pressure to cutback funding for future wildland urban interface projects in light of increasing federal deficits. Creative financing will be the order of the day.

Areas that have been treated will need to receive follow-up treatment. The open nature of fuel breaks lend themselves well to the regeneration of certain tree species, grass, brush, and other fuels that could impact the ability of firefighters to manage a wildland fire. If ignored, defensible space created around dwellings and along roads can soon be lost to new plants filling the void.

Agencies, local residents, and other stakeholders must work together to proactively prepare for future wildland fires and changes in forest health. In the case of fire, the best offense is a good defense.

WILDLAND URBAN INTERFACE WATCHOUTS

The primary consideration is to first assure firefighter and public safety. It is a must to assess potential fire behavior, ingress/egress routes, nature of the threat, hazardous materials, and available water supplies before engaging in the protection of any structures. The first step in conducting a safe

operation is to assess whether the firefighting operations can be conducted safely. Consider the "Wildland Urban Interface Watchouts" in completing a risk analysis for the urban interface area to be protected. Remember there are three categories of structures:

- Those that are not threatened.
- Those that are threatened.
- Those that have already been lost or are too dangerous to protect.

Wildland Urban Interface Watchouts:

Poor access and narrow, one-way roads: A rapidly spreading fire could trap apparatus and personnel before they can turn around or move away from the flames and smoke.

Observe bridge limits: Exceeding bridge limits could lead to bridge failure with a resultant blocking of ingress/egress routes that could result in the loss of an escape route or loss of equipment.

Inadequate water supply: Without a reserve supply of water, the fire can overtake an area before the fuels can be cleared away.

Natural fuels are located 30 feet or closer to structures on level ground: Remember structures on slopes require greater clearance. Structures are located on canyon slopes or "chimneys" on slopes of 30% or more with continuous, flashy fuels. The resulting rate of spread of any fire in this terrain can quickly extend beyond control.

Extreme fire behavior: Situations involving crowning, large flame heights and erratic fire behavior can extend in an unpredictable manner beyond the control of any number of personnel. Strong winds of 25+ MPH: Winds increase the chance of spotting over the heads of firefighters and trapping them between both fire areas. Winds also cause greater preheating of fuels in the path of a fire front.

The need to evacuate the public, livestock, pets, and/or animals: This critical activity can pull personnel from the firefighting activity and can distract attention from fire behavior at a time when the greatest alertness is needed.

Propane and aboveground fuel tanks that are next to wooden structures or close to vegetation.

Power lines and poles: What is their location in relation to the structures that are being protected? Watch for both overhead and downed power lines.

Local citizens are attempting suppression activities: Lack of knowledge in fire suppression may lead to unsafe tactics.

Airtanker retardant drops and helicopter bucket operations: Establish communications and keep fire personnel out of the drop zone.

Source: *Incident Response Pocket Guide* pg11.