

## ECONOMIC SHOCK SCENARIOS

The following matrix presents a number of economic disruptions that could potentially impact North Central in future years. For each economic shock, the matrix envisions how the event could affect the North Central economy, proposes a set of potential tactical steps to prepare for and address the disruption, and provides a set of links to resources to assist the region with guarding against and/or managing an economic shock.

Description	Potential Impacts	Preparatory Steps	Recovery Steps	Resources
<b>WILDFIRE</b>				
Uncontrolled fire that destroys hundreds or thousands of acres of forest land, homes, infrastructure, and businesses	<p>Damage or destruction of natural and man-made tourism amenities could affect visitation rates</p> <p>Damage or destruction of owner-occupied and rental housing would exacerbate existing shortages</p> <p>Damage or destruction of office, commercial, and industrial buildings and facilities would adversely impact economic growth</p> <p>Wildfire can result in soil erosion that limits regrowth potential</p> <p>Road drainage systems may not be adequate to handle increased runoff, debris, and sediment after a fire</p>	<p>Conduct home and business assessments to determine levels of fire safety</p> <p>Work with US Forest Service to ensure all proactive measures are taken to prevent against the spread and impact of fire, including soil erosion control measures</p> <p>Coordinate outreach to residents, landlords, and businesses to procure necessary fire insurance policies, as necessary and available</p> <p>Develop and update coordinated response plans in case of fire emergency</p>	<p>Work with disaster relief services to identify temporary shelter, food, medicine, and other pressing resident issues</p> <p>Assess damage to homes and businesses to determine if they are safe to reenter</p> <p>Assess natural and manmade resources to determine the extent of damage and estimate recovery time and cost</p> <p>Support residents and businesses to identify special tax fire-recovery benefits</p> <p>Assist landowners with reforestation, replanting and other resource conservation practices</p> <p>Work with businesses to identify technical assistance and funding to rebuild property and inventories, and secure resources to restart operations</p>	<p><a href="#">Pennsylvania Department of Conservation and Natural Resources</a></p> <p><a href="#">FEMA-US Fire Administration</a></p> <p><a href="#">National Fire Protection Association</a></p> <p><a href="#">Red Cross</a></p> <p><a href="#">SmokeyBear.com</a></p> <p><a href="#">American Institute of Architects wildfire recovery resources</a></p> <p><a href="#">Ready.gov</a></p> <p><a href="#">USDA – Wildland Fires</a></p>

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<b>CLOSURE OF MAJOR EMPLOYER</b>				
<p>Temporary or permanent closure of an employer that comprises a large percentage of local jobs</p>	<p>Increase in unemployment rate</p> <p>Decreased local spending and economic impact</p> <p>Greater need for social and emotional-support services</p> <p>Potential home foreclosures and rental payment delinquencies</p> <p>Downstream effect on businesses in employer's supply chain</p>	<p>Business retention and expansion visits to determine employer needs and concerns</p> <p>Support for technological improvements and employer market-building</p> <p>Formalization of effective talent supply and training pipelines</p> <p>Advocacy and regulatory policy support</p> <p>Establishment of procedural protocols in case of mass-layoff event in partnership with state's Rapid Response Team</p>	<p>Engage the Pennsylvania Department of Labor and Industry's Rapid Response Team</p> <p>Initiation of support protocols after Worker Adjustment and Retraining Notification (WARN) announcement or notice of closure</p> <p>Determine if employees' rights were violated by employer under WARN Act and potential recriminations</p> <p>Determine if employer experiencing a mass layoff situation, plant closing, or temporary shutdown is eligible for reduced reporting requirements or other allowances</p> <p>Help and direct laid-off employees to file initial application for unemployment benefits</p> <p>If closure was triggered by Impacted by foreign competition or trade, initiate implementation of Trade Adjustment Act support services, including training, job search, and relocation allowances</p> <p>Work with employer and state Rapid Response Team to assess potential scenarios for reopening of the business</p> <p>If necessary, market site and or building(s) of closed employer to new prospects</p>	<p><a href="#">Pennsylvania Department of Labor and Industry Rapid Response Services Webpage</a></p> <p><a href="#">Pennsylvania Department of Labor and Industry WARN Webpage</a></p> <p><a href="#">Pennsylvania Office of Unemployment Compensation Mass Layoff Webpage</a></p> <p><a href="#">Pennsylvania Department of Labor and Industry Trade Adjustment Assistance Program Webpage</a></p>

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<b>PANDEMIC/PUBLIC HEALTH EVENT</b>				
<p>Whether it is a long-term crisis like COVID-19 or a short-term shock event, a significant disruption of everyday life and workforce capacity that threatens the viability of local businesses</p>	<p>Long-term illness and loss of life</p> <p>Increased health care costs and associated burdens</p> <p>Severe taxing of public health and healthcare infrastructure, utilization, and capacity</p> <p>Workforce shortages and associated business impacts</p> <p>Business slowdowns and closures due to quarantining and group assembly restrictions</p> <p>Mandated or voluntary changes to the built environment and public space to accommodate protective measures</p> <p>Increased regulatory and code enforcement burdens</p>	<p>Develop “lessons learned” assessment of COVID-19 impact and responsiveness to inform future public health events</p> <p>Continuously work to enhance public health support personnel and programming and healthcare services and facility capacity</p> <p>Establish or confirm an Incident Response Framework and plan for short-term and prolonged public health events that describes the guiding principles, organizational structure, and operational concepts for addressing the crisis</p> <p>Build up reserves of materials such as facemasks, ventilators, and other equipment in preparation for future health emergencies</p>	<p>Activate Incident Response Framework and plan</p> <p>Monitor and connect with PA Health Alert Network for information on urgent public health incidents</p> <p>Follow state and federal protocols for immediate incident response</p> <p>Share accurate information with the general public</p> <p>If disease related, coordinate with businesses, government, and other partners to take prescribed actions to prevent the spread of disease</p> <p>Follow all state and federal guidelines for public quarantines and business shutdowns</p> <p>Work with government officials to secure necessary equipment, supplies, and support personnel as needed</p> <p>Solicit and implement re-opening guidance for public spaces and civic, commercial, educational, and religious facilities</p>	<p><a href="#">Pennsylvania Health Alert Network</a></p> <p><a href="#">CDC – Emergency Preparedness and Response</a></p> <p><a href="#">FEMA – Be Prepared for a Novel Pandemic</a></p> <p><a href="#">Public Health Emergency Response and Recovery</a></p> <p><a href="#">HHS Office of the Assistant Secretary for Preparedness and Response (ASPR)</a></p> <p><a href="#">ASPR – Technical Resources, Assistance Center, and Information Exchange (TRACIE)</a></p>

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<b>CROP OR LIVESTOCK DISEASE</b>				
<p>Short-term or endemic disruption to agricultural economy from pathogen affecting core crops and/or livestock herds</p>	<p>Significant loss of cropland or livestock yields that can cause business closures and job loss</p> <p>High remediation costs</p> <p>Potential long-term degradation of principal crop(s) that can decimate the local sector</p> <p>Loss of breeding stock that imperils long-term viability of the herd</p> <p>Negative impact on upstream and downstream supply chain partners</p>	<p>Outreach to local agricultural employers to determine level of awareness and preparedness for plant and animal pathogens</p> <p>Coordinate with local producers to identify and promote proven prevention practices to ag firms throughout the sector</p> <p>Work with USDA to develop animal health emergency management strategies for effective incident response</p> <p>Partner with the federal Plant Protection and Quarantine (PPQ) program to develop framework to protect against invasive pests and diseases</p>	<p>Request official confirmation of suspected plant or animal pathogen</p> <p>Follow emergency management strategy or framework (if developed) or outreach to requisite agencies or departments to develop response plan</p> <p>Assist producers with filing claims for crop and livestock insurance</p> <p>Identify potential funding sources to support producers' ability to remediate disease and replenish inventories</p>	<p><a href="#">USDA – Pests and Animal Disease</a></p> <p><a href="#">USDA – Animal and Plant Health Inspection Service</a></p> <p><a href="#">USDA – Animal Health Emergency Management</a></p> <p><a href="#">USDA – Plant Pests and Diseases</a></p> <p><a href="#">PA Department of Agriculture PA Plants</a></p> <p><a href="#">PA Department of Agriculture Risk Management</a></p> <p><a href="#">Penn State Animal Diagnostic Laboratory</a></p> <p><a href="#">American Phytopathological Society</a></p>