

A. Bibliography

Community Profile

- <https://www.phila.gov/media/20170517145926/Hazard-Mitigation-Plan-2017-FINAL.pdf>
- About the Streets Department & its Divisions. (n.d.). Philadelphia Streets Department. Retrieved August 12, 2021, from <https://www.philadelphiastreet.com/about/>
- American Society of Civil Engineers (ASCE). (2010). 2010 Report Card for Pennsylvania's Infrastructure.
- Amtrak. (2020). FY2020 Company Profile. <https://www.amtrak.com/content/dam/projects/dotcom/english/public/documents/corporate/nationalfactsheets/Amtrak-Company-Profile-FY2020-041921.pdf>
- Bureau of Economic Analysis. (2020, December 9). Gross Domestic Product (GDP) Summary by County and Metropolitan Area. <https://apps.bea.gov/iTable/iTable.cfm?reqid=70&step=1&acrdn=5>
- Campus Philly. (2020). 2019 Annual Report. <https://campusphilly.org/wp-content/uploads/2020/05/CampusPhilly-2019AnnualReport-web.pdf>
- City of Philadelphia, Office of the Controller. (2020). Mapping the Impact of Structural Racism in Philadelphia. <https://controller.phila.gov/philadelphia-audits/mapping-the-legacy-of-structural-racism-in-philadelphia/>.
- City of Philadelphia, Office of the Mayor. (2020, September 10). Philadelphia Region Sets a Record in 2019 with 46 Million Visitors. <https://www.phila.gov/2020-09-10-philadelphia-region-sets-a-record-in-2019-with-46-million-visitors/#:~:text=PHILADELPHIA%20%E2%80%93%20The%20City%20of%20Philadelphia,10th%20consecutive%20year%20of%20growth>
- Conrail. (n.d.). Freight Service.
- Consult Solutions Inc. (2020). Philadelphia Tourism: Visitation and Economic Impact 2019. <https://www.visitphilly.com/wp-content/uploads/2020/09/Greater-Philadelphia-Tourism-Visitation-and-Impact-2019.pdf>
- Delaware River Waterfront Corporation. (2017). Riverlink Ferry. <https://www.delawareriverwaterfront.com/places/riverlink-ferry>
- Delaware Valley Regional Planning Commission (DVRPC). (2021a). Connections 2050: Plan for Greater Philadelphia Draft. <https://www.dvrpc.org/Reports/21027A.pdf>
- Delaware Valley Regional Planning Commission (DVRPC). (2021b). Philly Freight Finder. <https://www.dvrpc.org/webmaps/phillyfreightfinder/freight-center-story.html>
- FEMA. (2020). The National Risk Index. <https://hazards.geoplatform.gov/portal/apps/MapSeries/index.html?appid=ddf915a24fb24dc8863eed96bc3345f8>
- FEMA. (2021). FEMA Reached out to People with Disabilities, Access and Functional Needs. <https://www.fema.gov/press-release/20210112/fema-reaches-out-people-disabilities-access-and-functional-need>
- Figueroa Emanuelli, P. F. (2020). The Impact of Climate Change on Philadelphia International Airport. <https://www.phl.org/newsroom/CVA>

- Fortune Media IP. (2020). Fortune 500 List of Companies for 2020. <https://fortune.com/fortune500/2020/search/?hqcity=Philadelphia>
- Harper, D. (n.d.). Online Etymology Dictionary.
- Hoffman, J. S., Shandas, V., & Pendleton, N. (2020). The Effects of Historical Housing Policies on Residential Exposure to Intra-Urban Heat: A Study of 108 US Urban Areas. *Climate*, 8(12). <https://doi.org/https://doi.org/10.3390/cli8010012>
- Home Owners' Loan Corporation (HOLC) Neighborhood Redlining Grade. (n.d.). [Map]. ArcGIS. Retrieved August 16, 2021, from <https://www.arcgis.com/home/item.html?id=ef0f926eb1b146d082c38cc35b53c947>
- HUD. (n.d.). Disease Risks and Homelessness. Retrieved February 12, 2021, from <https://www.hudexchange.info/homelessness-assistance/diseases/>
- Independence Hall Association. (n.d.). Philadelphia History.
- Lenni-Lenape (Delaware) Indians' History, Culture and Food. (n.d.).
- National Park Service. (n.d.). National Historic Landmarks Program: List of National Historic Landmarks by State.
- NJ Transit. (n.d.). About Us. <https://www.njtransit.com/about/about-us#AnnualReport>.
- PATCO. (2018). A History of Commitment. <http://www.ridepatco.org/about/history.html>
- Pennsylvania Department of Conservation and Natural Resources. (n.d.). paGEODE - Pennsylvania GEOlogic Data Exploration. Retrieved December 30, 2020, from <https://www.gis.dcnr.state.pa.us/pageode/>
- Pennsylvania Emergency Management Agency. (2019). Pennsylvania 2018 State Hazard Mitigation Plan. <https://pahmp.com/wp-content/uploads/2020/01/PA-2019-SHMP-Update-October-2019-Update.pdf>
- Pennsylvania Emergency Management Agency. (2020). Pennsylvania Hazard Mitigation Plan Standard Operating Guide (PA SOG). <https://www.pema.pa.gov/responseandrecovery/Disaster-Assistance/Documents/PA%20HMP%20Standard%20Operating%20Guide.pdf>.
- Pennsylvania Department of Environmental Protection, ICF, Penn State, Hamel Environmental Consulting. (2021). Pennsylvania Climate Impacts Assessment. https://files.dep.state.pa.us/Energy/Office%20of%20Energy%20and%20Technology/OETDPortalFiles/Climate%20Change%20Advisory%20Committee/2021/2-23-21/2021_Impacts_Assessment_Final_2-09-21_clean.pdf
- Pennsylvania Historical and Museum Commission. (2016). Disaster Planning for Historic Properties Initiative; Phase 1: Historic Building Flood Vulnerability Assessment Data Recordation.
- Philadelphia. (n.d.). Free Library of Philadelphia. freelibrary.org
- Philadelphia International Airport. (2020). FY2020 Aviation Annual Disclosure Report. <https://www.phl.org/drupalbin/media/FY%202020%20Aviation%20Annual%20Disclosure%20Report.pdf>
- Philadelphia International Airport. (2021a). About Us. <https://www.phl.org/about/about-us>
- Philadelphia International Airport. (2021b). Northeast Philadelphia Airport. <https://www.phl.org/business/PNE>
- Philadelphia International Airport. (2021c). Philadelphia International Airport and Northeast Philadelphia Airport. Annual Report 2020. <https://www.phl.org/annualreport2020>
- Philadelphia Office of Homeless Services. (2020). 2020 Annual Report. <http://philadelphiaofficeofhomelesservices.org/2020annualreport/>

- Philadelphia Parks and Recreation. (n.d.). Philadelphia Parks and Recreations: A Short Pictorial History. Retrieved May 24, 2021, from <https://phl.maps.arcgis.com/apps/MapTour/index.html?appid=2e4c2625fcbb41aab3c152c3c570e041>
- Philadelphia Parks and Recreation. (2018). What We Do. Philadelphia Parks and Recreation. <https://www.phila.gov/departments/philadelphia-parks-recreation/>
- Philadelphia Topographic Contours. (n.d.). Pennsylvania Spatial Data Access.
- Philadelphia Water Department (PWD). (n.d.-a). Philly Watersheds: Darby-Cobbs. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/darby_cobbs
- Philadelphia Water Department (PWD). (n.d.-b). Philly Watersheds: Delaware. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/delaware
- Philadelphia Water Department (PWD). (n.d.-c). Philly Watersheds: Pennypack. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/pennypack
- Philadelphia Water Department (PWD). (n.d.-d). Philly Watersheds: Poquessing. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/poquessing
- Philadelphia Water Department (PWD). (n.d.-e). Philly Watersheds: Schuylkill. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/schuylkill
- Philadelphia Water Department (PWD). (n.d.-f). Philly Watersheds: Tookany/Tacony-Frankford. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/tookany_tacony_frankford
- Philadelphia Water Department (PWD). (n.d.-g). Philly Watersheds: Wissahickon. Philly Watersheds. Retrieved December 30, 2020, from http://archive.phillywatersheds.org/your_watershed/wissahickon
- Physiographic Provinces of Pennsylvania. (n.d.). [Map]. Commonwealth of Pennsylvania Department of Conservation and Natural Resources.
- [Picture]. (n.d.). Free Library of Philadelphia. freelibrary.org
- SEPTA. (2020). Operating Budget Fiscal Year 2021. <https://planning.septa.org/wp-content/uploads/2021/02/Operating-Budget-FY2021.pdf>
- SEPTA. (n.d.). [Picture]. Retrieved November 16, 2021, from <https://www.septa.org/service/rail/improvement/index.html>
- Shai, D. (2006). Income, Housing, and Fire Injuries: A Census Tract Analysis. NCBI NIH, 121(2), 149–154. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1525262/>
- The Center for Rural Pennsylvania. (n.d.). County Profiles. https://www.rural.palegislature.us/county_profiles.cfm
- The City of Philadelphia, Commerce Department. (2020). Respond, Restart, Recharge and Reimagine: An Equitable and Inclusive Economic Recovery for Philadelphia. <https://www.phila.gov/media/20200910074553/RespondRestartRechargeReimagine9920-1.pdf>
- The City of Philadelphia, PA General Obligation Refunding Bonds (2020A). (2020). The City of Philadelphia. https://www.phila.gov/investor/PDF/2020_philadelphiacity_series2020a_os.pdf
- The PEW Charitable Trusts. (2019). Philadelphia 2019: State of the City. https://www.pewtrusts.org/-/media/assets/2020/08/sotc_2019_final.pdf

- United States Environmental Protection Agency. (n.d.). What is Open Space/Green Space?
- U.S. Army Corps of Engineers (USACE). (2018). Philadelphia Historic Resource Flood Hazard Vulnerability Study.
- U.S. Bureau of Labor and Statistics. (2017, August). Philadelphia Area Employment - August 2017. https://www.bls.gov/regions/mid-atlantic/news-release/2017/areaemployment_philadelphia_20171002.htm
- U.S. Bureau of Labor and Statistics. (2020, August). Philadelphia Area Employment - August 2020. https://www.bls.gov/regions/mid-atlantic/news-release/areaemployment_philadelphia.htm
- U.S. Census Bureau. (2019a, American Community Survey). Age and Sex, Table S0101. https://data.census.gov/cedsci/table?q=age&g=0400000US42_0500000US42101&tid=ACSST5Y2019.S0101&hidePreview=false.
- U.S. Census Bureau. (2019b, American Community Study). Annual Estimates of the Resident Population for Philadelphia, Table PEPANNRES. <https://data.census.gov/cedsci/table?q=population&g=0500000US42101&tid=PEPPOP2019.PEPANNRES&hidePreview=false>
- U.S. Census Bureau. (2019c, American Community Survey). Commuting Characteristics by Sex, Table S0801. <https://data.census.gov/cedsci/table?q=employment&g=0500000US42101&tid=ACSST1Y2019.S0801&hidePreview=false>
- U.S. Census Bureau. (2019d, American Community Survey). Demographic and Housing Estimates, Table DP05. <https://data.census.gov/cedsci/table?q=race&g=0500000US42101&tid=ACSDP1Y2019.DP05&hidePreview=false>
- U.S. Census Bureau. (2019e, American Community Survey). Disability Characteristics, Table S1810. <https://data.census.gov/cedsci/table?q=disability&g=0500000US42101&tid=ACSST1Y2019.S1810&hidePreview=false>.
- U.S. Census Bureau. (2019f, American Community Survey). Educational Attainment, Table S1501. <https://data.census.gov/cedsci/table?q=educational%20attainment&g=0500000US42101&tid=ACSST5Y2019.S1501&hidePreview=false>.
- U.S. Census Bureau. (2019g, American Community Survey). Limited English-Speaking Households: Philadelphia.
- U.S. Census Bureau. (2019h, American Community Survey). Median Income in the Past 12 Months, Table S1903. <https://data.census.gov/cedsci/table?q=Income&g=0500000US42101&tid=ACSST5Y2019.S1903&hidePreview=false>.
- U.S. Census Bureau. (2019i, American Community Survey). Place of Birth by Nativity and Citizenship Status, Table B05002. https://data.census.gov/cedsci/table?q=United%20States&t=Citizenship%3AForeign%20Born%3ANative%20Born%3ANative%20and%20Foreign%20Born&g=0400000US42_0500000US42101&tid=ACSST5Y2019.B05002&hidePreview=true.
- U.S. Census Bureau. (2019j, American Community Survey). Poverty Status in the Past 12 Months, Table S1701. https://data.census.gov/cedsci/table?q=Poverty&g=0100000US_0500000US42101&tid=ACSST5Y2019.S1701&hidePreview=false.

- U.S. Census Bureau. (2019k, American Community Survey). School Enrollment, Table S1401.
- U.S. Census Bureau. (2019l, American Community Survey). Selected Economic Characteristics, Table DP03.
<https://data.census.gov/cedsci/table?q=Unemployment&g=0500000US42101&tid=ACSDP5Y2019.DP03&hidePreview=false>.
- U.S. Census Bureau. (2019m, American Community Survey). Selected Housing Characteristics, Table S0101.
https://data.census.gov/cedsci/table?q=age&g=0400000US42_0500000US42101&tid=ACSST5Y2019.S0101&hidePreview=false.
- U.S. Census Bureau. (2020, April 1). Quick Facts: Philadelphia City, Philadelphia.
<https://www.census.gov/quickfacts/fact/table/philadelphiacitypennsylvania/POP010220#POP010220>
- U.S. Department of Housing and Urban Development (HUD). (2014, September 12). Disaster Planning for Homeless Populations. <https://www.hudexchange.info/news/disaster-planning-for-homeless-populations/>.
- U.S. Economic Development Administration. (n.d.). Economic Resilience. Retrieved January 8, 2021, from <https://www.eda.gov/ceds/content/economic-resilience.htm>
- Visit Philadelphia. (2020). 2020 Projections for Philadelphia Tourism Industry and COVID-19 Impact. <https://www.visitphilly.com/wp-content/uploads/2021/01/2020-Projections-Covid-Impact-Fact-Sheet-4.pdf>
- Weigler, R. F. (n.d.). Philadelphia: A 300 Year History.

Risk Assessment

- 3 CBS Philly (CBS3). 2020. Cleanup Underway After Water Main Break Causes Sink Hole In Philadelphia's Queen Village Neighborhood. Retrieved from <https://philadelphia.cbslocal.com/2020/12/05/road-buckles-after-water-main-break-in-philadelphias-queen-village-neighborhood/>
- ABC. 2021. Seven Tornadoes Confirmed so far Across Southeastern PA and Southern NJ after Ida Remnants Strike. Retrieved from <https://6abc.com/nj-tornado-pa-mullica-hill-ft-washington/10996131/>
- American Meteorological Association (AMS). 2012. Glossary of Meteorology: Tornado. Retrieved from <https://glossary.ametsoc.org/w/index.php?title=Tornadoes&redirect=no>
- Center for Disease Control and Prevention (CDC). 1996. Emergency Preparedness and Response Extreme Heat: A Prevention Guide to Promote Your Personal Health and Safety. Retrieved from <https://wonder.cdc.gov/wonder/prevguid/p0000449/p0000449.asp>
- --. 2012. Extreme Cold: A Prevention Guide to Promote Your Personal Health and Safety. Retrieved from <https://www.cdc.gov/disasters/winter/pdf/extreme-cold-guide.pdf>
- --. 2016. "Pandemic Severity Assessment Framework (PSAF)" <https://www.cdc.gov/flu/pandemic-resources/national-strategy/severity-assessment-framework.html>
- --. 2017. CDC WONDER database: Compressed mortality file, underlying cause of death. Monthly all-cause mortality for 2011–2016. Retrieved from <https://wonder.cdc.gov/mortSQL.html>
- --. 2018. Emergency Preparedness and Response: Information for Specific Groups. Retrieved from <https://emergency.cdc.gov/groups.asp>

- --. 2020. Heat-Related Deaths — United States, 2004–2018. Retrieved from <https://www.cdc.gov/mmwr/volumes/69/wr/mm6924a1.htm>
- City of Philadelphia. 2020. Philadelphia Fire Department Fact Sheet. Retrieved from <https://www.phila.gov/documents/philadelphia-fire-department-fact-sheet/>
- --. 2022. "City of Philadelphia COVID-19 Overview." <https://www.phila.gov/programs/coronavirus-disease-2019-covid-19/data/testing/>
- --, Office of the Controller. N.d. "Mapping Philadelphia's Gun Violence Crisis." <https://controller.phila.gov/philadelphia-audits/mapping-gun-violence/#/2022>
- --, Philadelphia City Planning Commission, March 2012, Citywide Vision: Philadelphia 2035 Summary, <https://www.phila2035.org/citywide-vision>
- Climates to Travel. n.d. Climate - Philadelphia (Pennsylvania). Retrieved from <https://www.climatestotravel.com/climate/united-states/philadelphia>
- Columbia University. 2012. Earthquakes and the Ramapo Fault System in Southeastern New York. Retrieved from https://www.ideo.columbia.edu/news/2004/04_30_04.htm#:~:text=The%20Ramapo%20Fault%20System%20The,to%20eastern%20Pennsylvania%20and%20beyond.&text=Seismologists%20can%20detect%20active%20faults,events%20can%20be%20resolved%20accurately
- Cook, Wesley, Paul Barr, and Marvin Halling. June 2015. "Bridge Failure Rate." Journal of Performance of Constructed Facilities volume 29 (3). <https://ascelibrary.org/doi/10.1061/%28ASCE%29CF.1943-5509.0000571>
- Coveware. 2019. Ransomware Amounts Rise 3x in Q2 as Ryuk & Sodinokibi Spread. Retrieved from <https://www.coveware.com/blog/2019/7/15/ransomware-amounts-rise-3x-in-q2-as-ryuk-amp-sodinokibi-spread>
- Crosstown Engineering. 2021. The Cost of a Sinkhole Repair. Retrieved from <https://crosstownengineering.com/the-cost-of-a-sinkhole-repair/>
- Current Results. N.d. "Philadelphia Snowfall Totals & Accumulation Averages." <https://www.currentresults.com/Weather/Pennsylvania/Places/philadelphia-snowfall-totals-snow-accumulation-averages.php>
- Denning, D.E. 2000. Statement of Dorothy E. Denning. https://irp.fas.org/congress/2000_hr/00-05-23denning.htm#:~:text=Further%2C%20to%20qualify%20as%20cyberterrorism,economic%20loss%20would%20be%20examples
- Department of Corrections. n.d. Philadelphia District Community Corrections Centers, Community Contract Facilities, Contracted County Jails, and Parole Offices. Retrieved from <https://www.cor.pa.gov/community-reentry/Documents/Maps/Region%201/Philadelphia%20DO%20and%20BCC%20map.pdf>
- Department of Homeland Security. N.d. "Active Shooter Pocket Card." https://www.dhs.gov/xlibrary/assets/active_shooter_pocket_card.pdf
- Derven, R. 2020. Experts Speak: COVID-19's Impact on Commercial Real Estate. <https://www.naiop.org/en/Research-and-Publications/Magazine/2020/Summer-2020/Business-Trends/Experts-Speak-on-COVID19s-Impact-on-Commercial-Real-Estate>
- Drug Enforcement Administration (DEA). 2017. Drugs of Abuse. Retrieved from https://www.dea.gov/sites/default/files/drug_of_abuse.pdf

- Economy League of Greater Philadelphia. July 22, 2020. "The Paycheck Protection Program (PPP) in Philadelphia." <https://economyleague.org/providing-insight/leadingindicators/2020/07/22/phillyppp>
- Federal Emergency Management Agency (FEMA). 2010. Wind Zones of the United States.
- --. 2016. Summary of Existing Guidelines for Hydrologic Safety of Dams: United States Dam Inventory Data.
- --. 2020. "Earthquake Hazard Maps." <https://www.fema.gov/emergency-managers/risk-management/earthquake/hazard-maps>
- --. 2021. "Poverty and Fire Injury Go Hand-in-Hand." <https://www.fema.gov/case-study/poverty-and-fire-injury-go-hand-hand#1>
- Flood Risk Management Task Force. 2017. "A Guide to Flooding in Philadelphia." https://www.phila.gov/media/20210909170757/Flood-Guide_V1-2_21.07.30_spreads.pdf
- Freitas, Andre, Marcelo Napimoga, and Maria Donalisio. April 2020. "Assessing the severity of COVID-19." https://www.researchgate.net/publication/340389292_Assessing_the_severity_of_COVID-19
- Federal Trade Commission. 2020. Equifax Data Breach Settlement. Retrieved from <https://www.ftc.gov/enforcement/cases-proceedings/refunds/equifax-data-breach-settlement>
- Gensini, V. and H. Brooks. 2018. Spatial Trends in United States Tornado Frequency. *Nature Partner Journals, Climate and Atmospheric Science*. Retrieved from <https://www.nature.com/articles/s41612-018-0048-2>
- FEMA. June 2020. Rehabilitation of High Hazard Potential Dams Grant Program Guidance. https://www.fema.gov/sites/default/files/2020-08/fema_hhpd_grant-guidance.pdf.
- Green, J. 2013. The List: Philadelphia's Worst Fires (and How We've recovered). Philadelphia Magazine. <https://www.phillymag.com/news/2013/09/13/list-philadelphias-worst-fires/>
- Griner, Chris, Shannon Reaves, Gregory Jaeger, Christopher Brewster, and Erin Bruce Iacobucci. 29 December 2021. "Untied States: DoD Doubles Down on Links Between Climate Change and National Security." <https://www.mondaq.com/unitedstates/terrorism-homeland-security-defence/1145170/dod-doubles-down-on-links-between-climate-change-and-national-security>
- Henson, B. 2021. Climate Change and Tornadoes: Any Connection? Yale Climate Connections. Retrieved from <https://yaleclimateconnections.org/2021/07/climate-change-and-tornadoes-any-connection/>
- Hill, M. and D. Swinhoe. 2021. The 15 Biggest Data Breaches of the 21st Century. Retrieved from <https://www.csoonline.com/article/2130877/the-biggest-data-breaches-of-the-21st-century.html>
- Holton, B. 2021. Artist commemorates 'Great Philly Sinkhole' as Repairs Continue at Site of Queen Village Water Main Break. Retrieved from <https://www.phillyvoice.com/water-main-break-philadelphia-queen-village-plaque-to-the-future/>
- ICF International. 2014. Useful Climate Information for Philadelphia: Past and Future. Retrieved from <https://www.phila.gov/media/20160505145605/Useful-Climate-Science-for-Philadelphia.pdf>
- Kramer, Anna. 25 July 2018. "Old homes, high poverty make Philadelphia housing less than affordable for some." WHYY. <https://whyy.org/articles/old-homes-high-poverty-make-philadelphia-housing-less-than-affordable-for-some/>
- Lisc Philly. N.d. "Home Preservation Initiative." <https://www.lisc.org/philly/our-priorities/affordable-housing/home-preservation-initiative/>

- Livingston, I. 2021. Ida's Impact from the Gulf Coast to Northeast — by the Numbers. The Washington Post. Retrieved from <https://www.washingtonpost.com/weather/2021/09/03/hurricane-ida-numbers-surge-wind-pressure-damage/>
- Mayor's Office of Sustainability and ICF International. 2015. Growing Stronger: Toward a Climate-Ready Philadelphia. Retrieved from <https://www.phila.gov/media/20160504162056/Growing-Stronger-Toward-a-Climate-Ready-Philadelphia.pdf>
- Morris, D. 2019. Cities like Philadelphia are Sitting Ducks for Cyber Attacks | Opinion. The Philadelphia Inquirer. Retrieved from <https://www.inquirer.com/opinion/commentary/ransomware-cyber-attacks-philadelphia-elections-hackers-20191111.html>
- Murrell, D. 2019. The No-B.S. Guide to Philadelphia Sinkholes. Retrieved from <https://www.phillymag.com/news/2019/08/02/sinkhole-philadelphia/>
- National Drought Mitigation Center (NDMC). 2021. Types of Drought. Retrieved from <https://drought.unl.edu/Education/DroughtIn-depth/TypesofDrought.aspx>
- National Fire Protection Association. N.d. "Specific groups at risk." <https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Specific-groups-at-risk>
- -. 2021. Home Structure Fires. Retrieved from <https://www.nfpa.org/-/media/Files/News-and-Research/Fire-statistics-and-reports/Building-and-life-safety/oshomes.pdf>
- National Institute of Building Sciences. 2017. Natural Hazard Mitigation Saves: 2017 Interim Report. Retrieved from https://www.fema.gov/sites/default/files/2020-07/fema_ms2_interim_report_2017.pdf
- National Institute on Drug Abuse (NIDA). 2017. Risks of Opioid Misuse During Pregnancy. Retrieved from <https://www.drugabuse.gov/publications/treating-opioid-use-disorder-during-pregnancy>
- National Integrated Drought Information System (NIDIS). 2021. National Current Conditions. Retrieved from <https://www.drought.gov/current-conditions>
- National Oceanic and Atmosphere Administration (NOAA). N.d. "Climate change and Extreme Snow in the U.S." <https://www.ncdc.noaa.gov/news/climate-change-and-extreme-snow-us>
- -. N.d. "Storm Events Database." <https://www.ncdc.noaa.gov/stormevents/>
- -. N.d. "What is storm surge?" <https://oceanservice.noaa.gov/facts/stormsurge-stormtide.html>
- -. 31 December 2020. "SVRGIS." <https://www.spc.noaa.gov/gis/svrgis/>
- -. 2020. Relative Sea Level Trend 8545240 Philadelphia, Pennsylvania. Retrieved from https://tidesandcurrents.noaa.gov/sltrends/sltrends_station.shtml?id=8545240
- -. 2021a. Background Information: North Atlantic Hurricane Season. Retrieved from <https://www.cpc.ncep.noaa.gov/products/outlooks/Background.html#:~:text=The%20North%20Atlantic%20hurricane%20season,months%20of%20the%20hurricane%20season>
- -. 2021b. What is subsidence? Retrieved from <https://oceanservice.noaa.gov/facts/subsidence.html>
- NBC 10 Philadelphia. 2013. Parts of PA Vulnerable to Sinkhole Formation. Retrieved from <https://www.nbcphiladelphia.com/news/local/parts-of-pa-vulnerable-to-sinkhole-formation/2084755/>
- The New York Times. 2021. Tracking Coronavirus in Pennsylvania: Latest Map and Case Study. Retrieved from <https://www.nytimes.com/interactive/2021/us/pennsylvania-covid-cases.html>
- Occupational Safety & Health Administration (OSHA). n.d. Structural Collapse Guide. Retrieved from <https://www.osha.gov/emergency-preparedness/guides/structural-collapse>

- Office of Emergency Management, City of Philadelphia (Philadelphia OEM). 2017. City of Philadelphia All Hazard Mitigation Plan. Retrieved from <https://www.phila.gov/media/20170517145926/Hazard-Mitigation-Plan-2017-FINAL.pdf>
- Olmos, S., W. Choi-Schagrin, and S. Hubler. 2021. Heat-Related Death Toll Climbs to Nearly 100 in Washington State and Oregon. Retrieved from <https://www.nytimes.com/2021/07/01/us/heat-wave-deaths-oregon-canada-washington.html>
- Opioid Response Unit. April 2021. "Philadelphia Opioid Response: 2021 Action Plan." <https://www.phila.gov/media/20210421131023/ORUstrategicReport42021.pdf>
- Penn Medicine. 2019. What You Should Know About Mumps. Retrieved from <https://www.pennmedicine.org/updates/blogs/health-and-wellness/2019/may/mumps>
- PennState. 2017. Where the Soybeans Grow: An Exploration of Agricultural Land Use in Pennsylvania, 2017. Retrieved from https://aese.psu.edu/research/centers/cecd/publications/pa-agriculture-analysis/land-use-in-pa-ag-in-2017_psu-cecd_dec2020.pdf
- Pennsylvania Department of Conservation and Natural Resources (PA DCNR). 2003. "Earthquakes in Pennsylvania: Earthquake Catalog and Epicenter Map of Pennsylvania." <https://www.dcnr.pa.gov/Geology/GeologicHazards/Earthquakes/Pages/default.aspx>
- Pennsylvania Department of Health (PDOH) 2019. Vulnerability Report County Maps Packet. Retrieved from <https://www.health.pa.gov/topics/Documents/Opioids/Vulnerability%20Report%20County%20Maps%20Packet.pdf>
- Pennsylvania Emergency Management Agency. 2018. "Chapter 4: Risk Assessment Human-made Hazards." <https://pahmp.com/wp-content/uploads/2018/10/Chapter-4-Risk-Assessment-Human-made-Hazards.pdf>
- Pennsylvania State. 2021. The Pennsylvania State Climatologist – Philadelphia. Retrieved from http://www.climate.psu.edu/data/city_information/index.php?city=phl&page=dwa&type=big7
- Pennsylvania State Historic Preservation Office. July 2020. Manayunk Main Street Historic District Flood Guide. https://gis.penndot.gov/CRGISAttachments/Survey/2020H004101A_3.pdf
- Pew Charitable Trusts. December 15, 2021. "Philadelphia Businesses See Modest Pandemic Recovery in Third Quarter, but Job Growth Remains Slow." <https://www.pewtrusts.org/en/research-and-analysis/articles/2021/12/15/philadelphia-businesses-see-modest-pandemic-recovery-in-third-quarter-but-job-growth-remains-slow>
- Philadelphia Department of Public Health (Philadelphia DPH). 2008. 2008 Annual Report. Retrieved from https://hip.phila.gov/Portals/_default/HIP/DataReports/AnnualReports/DDC_Annual_Report_2008.pdf
- --. 2020. Public Health Emergency Update: Hepatitis A Outbreak among At-Risk People in Philadelphia. Retrieved from https://hip.phila.gov/Portals/_default/HIP/HealthAlerts/2020/PDPH-HAN_Alert_HepAUpdates_010920-UPDATED.pdf
- --. 2021. Syphilis Surveillance. Retrieved from <https://hip.phila.gov/DataReports/Syphilis>
- The Philadelphia Redevelopment Authority (PRA). 25 March 2019. Lower Eastwick Public Land Strategy: Planning for an inclusive and resilient future in Eastwick. https://issuu.com/interfacestudio/docs/lepls_final_031319

- Philadelphia Water Department. 30 December 2015. "Be Ready: Frozen Pipes Are No Winter Wonderland." <http://water.phila.gov/blog/be-ready-frozen-pipes-are-no-winter-wonderland>
- Reed, Carrie, Matthew Biggerstaff, Lyn Finelli, Lisa Koonin, Denise Beauvais, Amra Uzicanin, Andrew Plummer, Joe Bresee, Stephen Redd, and Jernigan. January 2013. Novel Framework for Assessing Epidemiologic Effects of Influenza Epidemics and Pandemics. https://wwwnc.cdc.gov/eid/article/19/1/12-0124_article
- Rush, M. 2019. In Philly, a History of Oil Refinery Fires Going Back Decades. The Philadelphia Inquirer. Retrieved from <https://www.inquirer.com/news/philadelphia-refinery-fire-history-of-explosions-timeline-20190621.html>
- Seculore Solutions. n.d. Pennsylvania Cyber Attacks. Retrieved from <https://www.seculore.com/resources/cyber-attack-archive/pennsylvania>
- Shumway, Allison, Mark Petersen, Peter Powers, Sanaz Rezaeian, Kenneth Rukstales, and Brandon Clayton. 14 December 2020. "The 2018 update of the US National Seismic Hazard Model: Additional period and site class data." Earthquake Spectra 2021: 37 (2). <https://journals.sagepub.com/doi/10.1177/8755293020970979>
- Siders, A.R. 2018. "Social justice implications of US managed retreat buyout programs." <https://link.springer.com/article/10.1007/s10584-018-2272-5>
- Spizzirri, John. 20 October 2021. "Innovative models predict effects of climate change on nor'easters." <https://www.anl.gov/article/innovative-models-predict-effects-of-climate-change-on-noreasters>
- Substance Use Philadelphia. 2020. Unintentional Overdose Deaths. Retrieved from <https://www.substanceusephilly.com/unintentional-overdose-deaths>
- Todt, Ron and Claudia Lauer. 5 January 2022. "8 children, 2 mothers among dead in Philadelphia house fire." AP. <https://apnews.com/article/fires-philadelphia-354ff353667f19639883779aa6e18daa> US Fire Administration. October 2021. "Fire Risk in 2019." Topical Fire Report Series. <https://www.usfa.fema.gov/downloads/pdf/statistics/v21i8.pdf>
- United Nations Office for Disaster Risk Reduction (UNDRR). N.d. "Poverty and inequality as a risk driver of disaster." <https://www.preventionweb.net/understanding-disaster-risk/risk-drivers/poverty-inequality>
- United States Census Bureau (U.S. Census Bureau). 2019. Philadelphia City, Philadelphia County, Pennsylvania. Retrieved from <https://data.census.gov/cedsci/profile?q=0600000US4210160000>
- U.S. Chemical Safety and Hazard Investigation Board. 16 October 2019. "Fire and Explosions at Philadelphia Energy Solutions Refinery Hydrofluoric Acid Alkylation Unit." https://www.csb.gov/assets/1/6/pes_factual_update_-_final.pdf
- United States Environmental Protection Agency (USEPA). 2021a. "Climate Change Indicators: Tropical Cyclone Activity." <https://www.epa.gov/climate-indicators/climate-change-indicators-tropical-cyclone-activity#ref1>
- --. 2021b. Climate Change Indicators: Cold-Related Deaths. Retrieved from <https://www.epa.gov/climate-indicators/climate-change-indicators-cold-related-deaths>
- United State Geological Survey (USGS). n.d. Sinkholes. Retrieved from https://www.usgs.gov/special-topic/water-science-school/science/sinkholes?qt-science_center_objects=0#qt-science_center_objects
- --. 2018. "2018 Long-term National Seismic Hazard Map." <https://www.usgs.gov/media/images/2018-long-term-national-seismic-hazard-map>

- --. 2021. Earthquake Glossary. Retrieved from <https://earthquake.usgs.gov/learn/glossary/?term=earthquake>
- World Health Organization (WHO). 2003. Climate Change and Human Health Risk and Responses. Retrieved from <https://www.who.int/globalchange/publications/climchange.pdf>
- Zillow. 2021. Philadelphia Home Values. Retrieved from <https://www.zillow.com/philadelphia-pa/home-values/>

Capability Assessment

- City of Philadelphia Mayor's Office of Community Empowerment and Opportunity. (2019, September). "Community Empowerment & Opportunity: Strategic Framework." <http://www.sharedprosperityphila.org/wp-content/uploads/2019/09/CEO-StrategicFramework-September2019.pdf>
- City of Philadelphia Mayor's Office of Diversity, Equity, and Inclusion. (2020, January 6). "Mayor Kenney Signs Executive Order on Diversity, Equity and Inclusion." <https://www.phila.gov/2020-01-06-mayor-kenney-signs-executive-order-on-diversity-equity-and-inclusion/>
- City of Philadelphia Mayor's Office of Sustainability. (2015, November). "Growing Stronger: Toward a Climate-Ready Philadelphia." <https://www.phila.gov/media/20160504162056/Growing-Stronger-Toward-a-Climite-Ready-Philadelphia.pdf>
- City of Philadelphia Mayor's Office of Sustainability. (2016). "Greenworks: A Vision for a Sustainable Philadelphia." https://www.phila.gov/media/20161101174249/2016-Greenworks-Vision_Office-of-Sustainability.pdf
- Delaware Valley Regional Planning Commission. (2017). "Investing in People & Places: Greater Philadelphia's Comprehensive Economic Development Strategy: 2017 Annual Review and Update." <https://www.dvrpc.org/Reports/18003.pdf>
- FEMA. (2021). "National Risk and Capability Assessment." <https://www.fema.gov/emergency-managers/risk-management/risk-capability-assessment>
- Pennsylvania State Historic Preservation Office. (2020). "Manayunk Street Historic District Flood Guide." Pennsylvania Historic Preservation: Blog of the Pennsylvania State Historic Preservation Office. <https://pahistoricpreservation.com/manayunk-main-street-historic-district-flood-guide/>
- Philadelphia City Planning Commission. (2021). Philadelphia2035. <https://www.phila2035.org/>
- Philadelphia Department of Public Health. (2021). Emergency Response. Health Information Portal. <https://hip.phila.gov/EmergencyResponse>
- Philadelphia Housing Authority. (2013). Green Action Plan. PHA Sustainability Initiative. <http://www.pha.phila.gov/sustainability/overview.aspx>
- Philadelphia International Airport. "Climate Vulnerability Assessment Executive Summary." https://www.phl.org/drupalbin/media/PHL_ClimateChange_ES_V5%20%282%29.pdf
- Philadelphia Water Department. (2020, October 1). "Philadelphia Stormwater Management Guidance Manual, Version 3.2" <https://www.pwdplanreview.org/manual/introduction>
- Philadelphia Water Department. (2021). Green City, Clean Waters. <https://water.phila.gov/green-city/>