
Appendix E:
Data Sources Reference Table and Study Geospatial Database Schema

Appendix E2 – Study Geospatial Database Schema

Page 1

Table E1. Summary of References

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
State of New Jersey Hazard Mitigation Plan	http://ready.nj.gov/mitigation/2014-mitigation-plan.shtml	Hazard mitigation plan for the State of NJ	State of New Jersey	2014
Bergen County Hazard Mitigation Plan	http://meri.njmeadowlands.gov/downloads/BC%20Plan_ALL.pdf	Bergen County Hazard Mitigation Plan	Bergen County, NJ	2015
Essex County Hazard Mitigation Plan	http://www.essexsheriff.com/wp-content/uploads/2016/10/Mitigation-Plan-Essex-Sheriff.pdf	Essex County Hazard Mitigation Plan	Essex County, NJ	2015
Hudson Hazard Mitigation Plan	http://www.hudsoncountynj.org/all-hazard-mitigation-plan/	Hudson County Hazard Mitigation Plan	Hudson County, NJ	2015
Passaic County Hazard Mitigation Plan	http://www.passaiccountynj.org/index.aspx?NID=1247	Passaic County Hazard Mitigation Plan	Passaic County, NJ	2015
Morris County Hazard Mitigation Plan	https://oem.morriscountynj.gov/mitigation/	Morris County Hazard Mitigation Plan	Morris County, NJ	2015
Somerset County Hazard Mitigation Plan	https://www.co.somerset.nj.us/government/public-health-safety/hazard-mitigation/hazard-mitigation-plan	Somerset County Hazard Mitigation Plan	Somerset County, NJ	2015

Appendix E1 – Data Resources Table

Page 2

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Sussex County Hazard Mitigation Plan	https://www.sussex.nj.us/documents/sheriff/pdm/20160412/2016-Sussex-County-Draft-Plan.pdf	Sussex County Hazard Mitigation Plan	Sussex County, NJ	2016
Union County Hazard Mitigation Plan	http://ucnj.org/public-safety/2015-hazard-mitigation-plan-update/	Union County Hazard Mitigation Plan	Union County, NJ	2015
NOAA Technical Report NOS CO-OPS 083, Sea Level Rise Scenarios	https://tidesandcurrents.noaa.gov/publications/technical_rpt83_Global_and_Regional_SLR_Scenarios_for_the_US_final.pdf	Global and regional sea level rise scenarios for the United States	Global with a focus on the U.S.	2017
NOAA Technical Report OAR CPO-1, Global Sea Level Rise Scenarios for the United States National Climate Assessment	https://scenarios.globalchange.gov/sites/default/files/NOAA_SLR_r3_0.pdf	Global sea level rise scenarios for the United States National Climate Assessment	U.S. Coastal Communities	2012
Incorporating Sea Level Change Scenarios at the Local Level	https://www.nauticalcharts.noaa.gov/hsd/docs/Incorporating_Sea_Level_Change_Scenarios_at_the_Local_Level.pdf	“Low-Tech” Guide to incorporating sea level change scenarios at the local level	U.S. Coastal Communities	2012

Appendix E1 – Data Resources Table

Page 3

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
USGS Professional Paper 1821, Flood Reports	https://pubs.usgs.gov/pp/1821/pp1821.pdf	Study for flooding in Northeastern U.S. in 2011, discussed annual exceedance probabilities for various events.	Northeastern U.S.	2015
USGS Scientific Investigations Report 2013–5234, Flood Reports	https://pubs.usgs.gov/sir/2013/5234/pdf/sir2013-5234.pdf	Hurricane Irene and associated floods of August 27-30, 2011, in New Jersey. Has information on high water marks and streamflow records.	New Jersey	2013
USGS Open-File Report 2013–1043, Flood Reports	https://pubs.usgs.gov/of/2013/1043/pdf/ofr2013-1043.pdf	Monitoring Storm Tide and Flooding from Hurricane Sandy along the Atlantic Coast. Has information on high water marks and streamflow records.	Northeastern U.S.	2013
USGS Open-File Report 2012–1022, Flood Reports	https://pubs.usgs.gov/of/2012/1022/pdf/ofr2012-1022.pdf	Monitoring Inland Storm Tide and Flooding from Hurricane Irene along the Atlantic Coast	Northeastern U.S.	2012
Hurricane Irene Storm Tide Mapper	https://stn.wim.usgs.gov/fev/#Irene	Interactive USGS Mapper of Water Levels during Hurricane Irene	Northeastern U.S.	2012

Appendix E1 – Data Resources Table

Page 4

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
USGS Water Resources Investigation Report 02-4099, Flood Reports	https://pubs.usgs.gov/wri/2002/4099/report.pdf	Water Resources Investigation Report for Sparta, NJ flooding in 2000 from a 14-inch high intensity rainfall event causing four dams in Sussex County to fail.	Sparta, NJ	2002
USGS Fact Sheet FS-076-03	https://pubs.usgs.gov/fs/fs07603/pdf/fs07603.pdf	Effects of Urban Development on Floods, general fact sheet on urban development.	Nationwide	2003
USGS Flood Inundation Mapper	https://wimcloud.usgs.gov/apps/FIM/FloodInundationMapper.html#	Interactive flood mapping	Nationwide	2017
Congressional Research Services Emergency Relief Program: Federal-Aid Highway Assistance for Disaster-Damaged Roads and Bridges	https://fas.org/sgp/crs/homesec/R42804.pdf	This report describes FHWA assistance for the repair and reconstruction of highways and bridges damaged by disasters or catastrophic failures (such as a bridge collapse).	Nationwide	2012
New Jersey Disasters Payments for Hurricane Irene	http://ready.nj.gov/plan/pdf/20151002_dr4021_payments.pdf	List of applicant/community, county, funded project type, eligible amount, and federal funds disbursed.	New Jersey	2013

Appendix E1 – Data Resources Table

Page 5

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Climate Change Vulnerability and Risk Assessment of New Jersey's Transportation Infrastructure	http://state.nj.us/dep/ages/docs/NJTPA_Climate%20Vulnerability%20and%20Risk%20in%20NJ.pdf	The primary objective of this project is to pilot the Federal Highway Administration's (FHWA) vulnerability and risk assessment Conceptual Model using New Jersey as a case study.	Northern New Jersey	2011
FHWA-HEP-14-005, FHWA Climate Change Vulnerability Assessment Pilot Project	http://www.dvrpc.org/Resiliency/pdf/New_Jersey_FHWA_Vulnerability_Assessment.pdf	FHWA Climate Change Vulnerability Assessment Fact Sheet on the NJTPA project	Northern New Jersey	2010
NJTPA Plan 2040, Regional Transportation Plan for Northern New Jersey	http://www.njtpa.org/planning/plan-update-to-2040/plan2040final.aspx	Regional transportation plan (RTP) for the 13-county region of the Northern New Jersey Transportation Planning Authority's 13-county region.	Northern New Jersey	2013
States at Risk: New Jersey. Extreme weather conditions for NJ.	http://statesatrisk.org/new-jersey/all	Summary and infographics of New Jersey related to changes in climate and extreme weather conditions for NJ.	New Jersey	N/A

Appendix E1 – Data Resources Table

Page 6

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Passaic River Basin Flood Advisory Commission Report/Status of Recommendations	https://www.montclair.edu/media/montclair.edu/csam/pri/symposiumv/david-rosenblatt-njdep-passaic-flood.pdf	PowerPoint Presentation on the Passaic River Basin Flood Advisory Commission summary and update on of recommendations	Passaic River Basin	2014
Passaic River Basin Flood Advisory Commission Recommendations/Status of Recommendations	http://www.nj.gov/dep/passaicriver/docs/prbfac-progress-report.pdf	Progress of 15 recommendations updated October 2016	Passaic River Basin	2016
Passaic River Basin Flood Advisory Commission Recommendations	http://www.nj.gov/dep/passaicriver/docs/passaic-report201101.pdf	Report to the Governor: recommendations of the Passaic River Basin Flood Advisory Commission	Passaic River Basin	2011
New Jersey Institute of Technology Flood Mitigation Report	http://www.nj.gov/dep/docs/flood/final-studies/njit-moonachie/njit-njdep-fmerc-finalreport-06182014.pdf	Flood Mitigation Engineering Resource Center (FMERC) – Project EC 14-005; The FMERC will be a premier research, engineering and technology resource for the State of New Jersey in the domain of strategic planning and response to flood analysis and mitigation needs	New Jersey	2014

Appendix E1 – Data Resources Table

Page 7

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Stevens Institute of Technology, Davidson Laboratory Technical Report TR-2933	http://www.nj.gov/dep/docs/flood/final-studies/stevens-hudson/hudson-river-waterfront-sandy-surge-mitigation-analysis-final.pdf	Street Scale Modeling of Storm Surge Inundation along the New Jersey Hudson River Waterfront	New Jersey Hudson River Waterfront	2014
Rutgers University Flood Mitigation Report	http://www.nj.gov/dep/docs/flood/final-studies/rutgers-hudson/hudson-river-study-area-flood-mitigation-final-report.pdf	Strategies for flood risk reduction for vulnerable coastal populations along Hudson River at Hoboken and Jersey City	Hudson River at Hoboken and Jersey City, NJ	2014
Rutgers University Flood Mitigation Report	http://www.nj.gov/dep/docs/flood/final-studies/rutgers-hackensack/hackensack-river-study-area-flood-mitigation-final-report.pdf	Strategies for flood risk reduction for vulnerable coastal populations along Hackensack River at Little Ferry and Moonachie	Hackensack River at Little Ferry and Moonachie, NJ	2014
Rutgers University Flood Mitigation Report	http://www.nj.gov/dep/docs/flood/final-studies/rutgers-arthur-kill/arthur-kill-study-area-flood-mitigation-final-report.pdf	Strategies for flood risk reduction for vulnerable coastal populations along Arthur Kill at Elizabeth, Linden, Rahway, Carteret and Woodbridge	Elizabeth, Linden, Rahway, Carteret and Woodbridge, New Jersey	2014

Appendix E1 – Data Resources Table

Page 8

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Resilience of NJ TRANSIT Assets to Climate Impacts	https://rucore.libraries.rutgers.edu/rutgers-lib/47313/	This report provides a regional overview and can be used to identify critical impacts on assets and take appropriate measures to reduce its vulnerability to extreme weather.	New Jersey	2012
USACE New York District Flood Risk Management	http://www.nan.usace.army.mil/Portals/37/docs/civilworks/projects/nj/frm/passaic_study/reports/Passaic_River_Main_Stem_Preliminary_Alternative_Reevaluation_Report.pdf	This report details the results of the Phase 1 alternative reevaluation for the Passaic River Main Stem flood risk management.	Passaic River Basin	2013
FHWA-HEP-16-079, US DOT 2013-2015 Climate Resilience Pilot Program: Outcomes, Lessons Learned, and Recommendations	https://www.fhwa.dot.gov/environment/sustainability/resilience/pilots/2013-2015_pilots/final_report/fhwahep16079.pdf	This report highlights results and lessons learned from those efforts and will be helpful for others conducting climate change vulnerability assessment.	Nationwide	2016

Appendix E1 – Data Resources Table

Page 9

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
New Jersey Association for Floodplain Management's Testimony Before the New Jersey State Legislature Assembly Statewide Flooding Legislative Panel Flood Risk Management	https://rucore.libraries.rutgers.edu/rutgers-lib/27576/	In the testimony, NJAFM makes recommendations for improvements in policy and practices that will dramatically improve New Jersey's resilience to flooding and lessen the costs to the public, homeowners and businesses caused by flooding	New Jersey	2007
USDOT FHWA Risk-Based Transportation Asset Management: Evaluating Threats, Capitalizing on Opportunities	https://www.fhwa.dot.gov/asset/pubs/hif12035.pdf	A report that defines risk, explains risk management and examine their application to transportation asset management plans.	Nationwide	2012
FEMA Flood Insurance Studies	https://msc.fema.gov/portal/advanceSearch#searchresultsanchor	Various county level FEMA Flood Insurance Studies	Counties in Study Area	Ranging from 1980s to recent years
USGS observed flow and gage height	https://waterdata.usgs.gov/nj/nwis/current/?type=flow	Recent USGS gage data within the Passaic River Basin, approximately 62 stations	Passaic River Basin	Recent 10-20 years

Appendix E1 – Data Resources Table

Page 10

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Mitchell, J. K. (2006). <u>New Jersey's Environments: Past, Present, and Future.</u> Rutgers University Press, New Brunswick: 164-198.	N/A	A Century of Natural Disasters in A State of Changing Vulnerability: New Jersey 1900-99.	New Jersey	2006
Bowman, M. J. and R. D. Flood (2002). " Hydrologic feasibility of storm surge barriers to protect the metropolitan New York – New Jersey region. "	N/A	Feasibility study of a storm surge barrier across the NY Bight	Metropolitan New York – New Jersey Region	2002
Cerco, C. F., B. Bunch and J. Letter (1999). " Impact of flood-diversion tunnel on Newark Bay and adjacent waters. " <u>Journal of Hydraulic Engineering</u> 125 (4): 328-338.	N/A	Study on impact of flood diversion in Newark Bay	Newark Bay, NJ	1999
Ella, F. F. and W. W. Joseph (1990). " The Flood Control Saga in the Passaic River Basin. " <u>Population and Environment</u> (4): 285.	N/A	Summary of flood control issues and Federal projects	Passaic River Basin	1990

Appendix E1 – Data Resources Table

Page 11

FILE TYPE/NAME	WEB LOCATION	DESCRIPTION	COVERAGE AREA	DATE OF PUBLICATION
Philips, M. O. and R. D. Schopp (1986). Flood of April 5-7, 1984, in Northeastern New Jersey	https://pubs.er.usgs.gov/publication/ofr86423W	Summary of impacts from a rainfall event in 1984	Northern New Jersey	1986

Appendix E2 – Study Geospatial Database Schema

DATABASE NAME: <i>NJTPA_ClimateResiliencyPlan.gdb</i>					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
Railroad	Rail_Transportation	Railroad Stations (from NJ Highlands Council Open Data)	It_Railroad_Stations	Passenger rail station points on rail, light rail, and subway services lines	Point
		Railroad (passenger) (from NJ Highlands Council Open Data)	It_Railroad_passenger	Right-of-way centerlines for rail, light rail, and subway service lines; connecting commuter lines	Line
		NJT Rail Lines – NJTPA Region (2016) (NJTPA-Transportation site download)	It_NJT_Rail_Lines_NJTPA_region_2016	NJ Transit rail lines	Line
		NJT Rail Stations – NJTPA Region (2016) (NJTPA-Transportation site download)	It_NJT_Rail_Stations_NJTPA_region_2016	NJ Transit rail stations	Point
		NJT Light Rail Lines – NJTPA Region (2013) (NJTPA-Transportation site download)	It_NJT_Light_Rail_Lines_NJTPA_region_2013	NJ Transit light rail lines	Line
		NJT Light Rail Station – NJTPA Region (2013) (NJTPA-Transportation site download)	It_NJT_Light_Rail_Station_NJTPA_region_2013	NJ Transit light rail stations	Point
		Intermodal_Facilities_BTS (NJTPA-email)	It_Intermodal_Facilities_BTS	Intermodal Facilities	Point
		MNR Stations (NJTPA-email)	It_MNRstations	Metro North Railroad stations	Point
		MNR Station Stops (NJTPA-email)	It_MNRstations_stops	Metro North Railroad stops	Point
		MNR Lines (NJTPA-email)	It_mnrr_line	Metro North Railroad lines	Line
		Rail Lines 2017 (US Census TIGER lines)	It_Rail_2017	2017 Railway lines from TIGER data	Line
Rail Yards (NJTPA-email)	It_Facilities_Yard_PortAuthority	Rail yards	Polygon		
Bus	Bus_Transportation	Private Bus Routes (from NJ Highlands Council Open Data)	It_Private_Bus_Routes	Private commute bus lines	Line
		NJ Transit Bus Routes (2016) (NJTPA-Transportation site download)	It_NJ_TRANSIT_Bus_Routes_2016	Bus routes in NJ	Line
		Bus Garages (NJ Transit-email)	It_NJT_BusGarages_010818	Bus garages	Point

Appendix E1 – Data Resources Table

Page 13

DATABASE NAME: NJTPA_ClimateResiliencyPlan.gdb					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		NJ Transit Bus Stops (2016) (NJTPA-Transportation site download)	It_NJ_TRANSIT_Bus_Stops_2016	NJT bus stops	Point
Roadways	Roadways	Park and Rides (from NJ Highlands Council Open Data)	It_Park_and_Rides	Existing park and ride locations sourced from NJDOT	Point
		2015 Park and Rides (NJ Transit)	It_NJTRANSIT_ParkRide2015	Existing park and ride locations as of 2015	Point
		Bridges (NJTPA-Morris Co. TAC)	It_BridgeFeatures_MorrisCo	Historic bridges of significance in Morris County	Point
		Bridge footprints (NJTPA-Morris Co. TAC)	It_BridgeTracts_MorrisCo	Bridge extents for bridge features (above)	Polygon
		NJ Bridges – NJ Office of GIS (NJTPA-Transportation site download)	It_New_Jersey_Bridges_NJ_Office_of_GIS	Bridges in NJ	Point
		NJ Roadway Network (NJDOT)	It_NJ_Roadway_Network	NJ State-wide Road Network	Line
		Hurricane Sandy Highway Events (NJTPA-email)	It_HurricaneSandyHwyEvents_2012	Highway Events during Hurricane Sandy	Point
		Evacuation Routes (HMP/NJ OEM)	It_Evacuation_Routes_Matrix	Evacuation Routes identified from County HMPs and NJ OEM	Point
		NJOIT Road Centerlines (2014) (NJTPA-Transportation site download)	It_NJOIT_Road_Centerlines_2014	Road centerlines of NJ	Line
Truck/Ship	FreightShipping_Network	National Highway Freight Network (NJTPA-Transportation site download)	It_National_Highway_Freight_Network	Roadways most critical to the national movement of goods	Line
		NJ Large Truck Network – Trucks Prohibited (2015) (NJTPA-Transportation site download)	It_NJ_Large_Truck_Network_Trucks_Prohibited_2015	Trucks prohibited roadways NJDOT (trucks and commercial vehicles cannot travel)	Line
		NJ Large Truck Network – National Network (2015) (NJTPA-Transportation site download)	It_NJ_Large_Truck_Network_National_Network_2015	National network (Interstate highways, NJ Turnpike, and some State highways) NJDOT	Line
		NJ Large Truck Network – Access Network (2015) (NJTPA-Transportation site download)	It_NJ_Large_Truck_Network_Access_Network_2015	Access network (state highways and some county roadways) NJDOT	Line

Appendix E1 – Data Resources Table

DATABASE NAME: <i>NJTPA_ClimateResiliencyPlan.gdb</i>					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		Rail Freight Network (US Census TIGER lines)	lt_2017_rail	US Census Bureau's TIGER lines for rail lines, which are designated by the MTFCC beginning with an "R".	Line
		Port Newark (NJTPA-email)	lt_PortNewark	Shipping port	Polygon
Emergency Facilities	Facilities	Morris County DPW Garages (Morris Co. TAC)	If_MorrisCo_DPW_Garages	Location of DPW Garages in Morris County	Point
		Municipal Facilities - Morris Co (NJTPA-Morris Co. TAC)	lt_MorrisCo_Municipal_Facilities	Municipal Facilities for Morris County (Police, Fire, Medical Facilities, etc)	Point
		EMS facilities (NJ Geographic Information Network)	If_EMS_NJGIN	EMS facilities within the Study Area (compiled by Matrix Engineering)	Point
		EOC facilities (DHS)	If_EOC_DHS	Local Emergency Operation Centers within the Study Area (compiled by Matrix Engineering)	Point
		Fire Stations (NJ Geographic Information Network)	If_Fire_NJGIN	Fire Stations within the Study Area (compiled by Matrix Engineering)	Point
		Hospitals (DHS)	If_Hospitals_DHS	Hospitals within the Study Area (compiled by Matrix Engineering)	Point
		Nursing facilities (DHS)	If_Nursing_DHS	Nursing facilities within the Study Area (compiled by Matrix Engineering)	Point
		Police Stations (NJ Geographic Information Network)	If_Police_NJGIN	Police Stations within the Study Area (compiled by Matrix Engineering)	Point
		Church Emergency Shelters (County Hazard Mitigation Plans)	If_Shelter_Church_HMP	Churches that act as emergency shelters, identified from the Somerset HMP (compiled by Matrix Engineering)	Point
		School Emergency Shelters (County Hazard Mitigation Plans)	If_Shelter_Schools_HMP	Schools that act a emergency shelters, identified from HMP research (compiled by Matrix Engineering)	Point
		Emergency Shelters (DHS)	If_Shelters_DHS	All other emergency shelters within the Study Area, as identified from DHS website (compiled by Matrix Engineering)	Point

Appendix E1 – Data Resources Table

Page 15

DATABASE NAME: NJTPA_ClimateResiliencyPlan.gdb					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		Gas Stations (NJTPA-Transportation site download)	lt_GasolineServiceStations	Gas Service Stations in NJ (Envr_NJEMS_gasstation)	Point
		Alternative Fuel Stations 2016 (NJTPA-Transportation site download)	lt_AlternativeFuelStations_2016	Alternative Fuel Stations in NJ	Point
		Somerset County Heating and Cooling Centers (Somerset Co. TAC)	lf_SomersetCo_HeatingCoolingCenters	Location of Heating and Cooling Centers in Somerset County	Point
Airports	Air_Transportation	NJ Airports (2010) (NJTPA-Transportation site download)	lt_NJ_Airports_2010	Airports in NJ	Point
		Newark Airport (NJTPA-Transportation site download)	lt_NewarkAirport	Newark Airport	Polygon
NJTA Transportation Improvement Projects (TIP)	Improvement_Projects	TIP Lines (2018) (NJTPA-email)	lp_FY2018_TIP_Lines	FY 2018: TIP Lines	Line
		TIP Routes (2016) (NJTPA-Transportation site download)	lp_NJTPA_TIP_Routes_2016	FY 2016: TIP Routes and Areas	Line
		TIP Areas (2016) (NJTPA-Transportation site download)	lp_NJTPA_TIP_Areas_2016	FY 2016: TIP Routes and Areas	Polygon
		TIP Points (2014) (NJTPA-Transportation site download)	lp_NJTPA_TIP_Points_2014	FY 2014: TIP Points	Point
Developed Land	Developed_Land	Transit Score (from NJ Highlands Council Open Data)	lp_Transit_Score	Developed lands within a ¼ mile buffer of significant US routes, state routes, and specified county routes	Polygon
Bike and Trail Routes	Bike_Routes	NJ Bike and Trail Routes (NJTPA-Transportation site download)	lt_NJ_Bike_and_Trail_Routes	NJ trail and tour routes	Line
Hydro	Hydrologic_Features	Culverts (NHD)	lu_NHD_culvert	NHD Flowline "connector" that run under roadways	Line
		HUC14 Boundaries (NJDEP)	le_DEP_HUC14	NJDEP 14 Digit Hydrologic Unit Code delineations (DEPHUC14)	Polygon
		HUC8 Boundaries (NHD)	le_NHD_HUC8	The national Hydrography Dataset (NHD)	Polygon
		Tributary to Passaic River (NJDEP)	le_PassaicTrib	NJDEP State Rivers (Third Order or Higher)	Line

Appendix E1 - Data Resources Table

DATABASE NAME: NJTPA_ClimateResiliencyPlan.gdb					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		Passaic River (NJDEP)	le_PassaicRiver	NJDEP State Rivers (Third Order or Higher)	Line
Drainage System	Drainage_System	DMS Output (NJTPA-email)	lu_Drainage_DMS	Drainage issues along roadways	Line
Phase B Prioritization Criteria	PhaseB_Prioritization_Criteria	Cancer Risk (Statewide)	lp_CancerRisk_NJ_Percentile	Cancer Risk (Statewide) (compiled by Matrix Engineering)	Polygon
		Cancer Risk (National)	lp_CancerRisk_Percentile	Cancer Risk (National) (compiled by Matrix Engineering)	Polygon
		Critical Destinations Fastest Growth	lp_CriticalDestinations_FastestEmp	Critical Destinations Fastest Growth (compiled by Matrix Engineering)	Polygon
		Critical Destinations Largest Growth	lp_CriticalDestinations_LargestEmp	Critical Destinations Largest Growth (compiled by Matrix Engineering)	Polygon
		Diesel PM (Statewide)	lp_DieselPM_NJ_Percentile	Diesel PM (Statewide) (compiled by Matrix Engineering)	Polygon
		Diesel PM (National)	lp_DieselPM_Percentile	Diesel PM (National) (compiled by Matrix Engineering)	Polygon
		EJ Screen - Primary Project Area	lp_EJSCREEN_Primary_Project_Area	EJ Screen - Primary Project Area (compiled by Matrix Engineering)	Polygon
		EJ Screen - State Percentile Project Area	lp_EJSCREEN_StatePctile_v4_Project_Area	EJ Screen - State Percentile Project Area (compiled by Matrix Engineering)	Polygon
		High Population Growth	lp_HighPopGrowth	High Population Growth (compiled by Matrix Engineering)	Polygon
		Lead Paint (Statewide)	lp_LeadPaintInd_NJ_Percentile	Lead Paint (Statewide) (compiled by Matrix Engineering)	Polygon
		Lead Pain (National)	lp_LeadPaintInd_Percentile	Lead Pain (National) (compiled by Matrix Engineering)	Polygon
		Less HS Education (Statewide)	lp_LessHSEducationPCT_NJ_Percentile	Less HS Education (Statewide) (compiled by Matrix Engineering)	Polygon
		Less HS Education (National)	lp_LessHSEducationPCT_Percentile	Less HS Education (National) (compiled by Matrix Engineering)	Polygon

Appendix E1 - Data Resources Table

DATABASE NAME: <i>NJTPA_ClimateResiliencyPlan.gdb</i>					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		Linguistically Isolated (Statewide)	lp_LinguisticallyIsoPCT_NJ_Percentile	Linguistically Isolated (Statewide) (compiled by Matrix Engineering)	Polygon
		Linguistically Isolated (National)	lp_LinguisticallyIsoPCT_Percentile	Linguistically Isolated (National) (compiled by Matrix Engineering)	Polygon
		Low Income (Statewide)	lp_LowIncomePCT_NJ_Percentile	Low Income (Statewide) (compiled by Matrix Engineering)	Polygon
		Low Income (National)	lp_LowIncomePCT_Percentile	Low Income (National) (compiled by Matrix Engineering)	Polygon
		Minority (Statewide)	lp_MinorityPCT_NJ_Percentile	Minority (Statewide) (compiled by Matrix Engineering)	Polygon
		Minority (National)	lp_MinorityPCT_Percentile	Minority (National) (compiled by Matrix Engineering)	Polygon
		Congestion Delay in Project Area (updated)	lp_NJTPA_Congestion_Delay_ProjectArea	Congestion Delay in Project Area (updated) (compiled by Matrix Engineering)	Line
		Congestion Delay in Project Area	lp_NJTPA_CongestionDelay_PROJECT	Congestion Delay in Project Area (compiled by Matrix Engineering)	Line
		LOTTR Unreliable	lp_NJTPA_LOTTR_Unreliable	LOTTR Unreliable (compiled by Matrix Engineering)	Line
		Over Age 64 (Statewide)	lp_OverAge64PCT_NJ_Percentile	Over Age 64 (Statewide) (compiled by Matrix Engineering)	Polygon
		Over Age 64 (National)	lp_OverAge64PCT_Percentile	Over Age 64 (National) (compiled by Matrix Engineering)	Polygon
		Ozone Concentration (Statewide)	lp_OzoneCon_NJ_Percentile	Ozone Concentration (Statewide) (compiled by Matrix Engineering)	Polygon
		Ozone Concentration (National)	lp_OzoneConc_Percentile	Ozone Concentration (National) (compiled by Matrix Engineering)	Polygon
		PM 25 (Statewide)	lp_PM25Conc_NJ_Percentile	PM 25 (Statewide) (compiled by Matrix Engineering)	Polygon

Appendix E1 - Data Resources Table

Page 18

DATABASE NAME: NJTPA_ClimateResiliencyPlan.gdb					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		PM 25 (National)	lp_PM25Conc_Percentile	PM 25 (National) (compiled by Matrix Engineering)	Polygon
		Respiratory Hazard (Statewide)	lp_RespiratoryHaz_NJ_Percentile	Respiratory Hazard (Statewide) (compiled by Matrix Engineering)	Polygon
		Respiratory Hazard (National)	lp_RespiratoryHaz_Percentile	Respiratory Hazard (National) (compiled by Matrix Engineering)	Polygon
		RMP Proximity (Statewide)	lp_RMPPproximity_NJ_Percentile	RMP Proximity (Statewide) (compiled by Matrix Engineering)	Polygon
		RMP Proximity (National)	lp_RMPPproximity_Percentile	RMP Proximity (National) (compiled by Matrix Engineering)	Polygon
		Superfund Proximity (Statewide)	lp_SuperfundProximity_NJ_Percentile	Superfund Proximity (Statewide) (compiled by Matrix Engineering)	Polygon
		Superfund Proximity (National)	lp_SuperfundProximity_Percentile	Superfund Proximity (National) (compiled by Matrix Engineering)	Polygon
		Traffic Proximity (Statewide)	lp_TrafficProximity_NJ_Percentile	Traffic Proximity (Statewide) (compiled by Matrix Engineering)	Polygon
		Traffic Proximity (National)	lp_TrafficProximity_Percentile	Traffic Proximity (National) (compiled by Matrix Engineering)	Polygon
		TSDF Proximity (Statewide)	lp_TSDFProximity_NJ_Percentile	TSDF Proximity (Statewide) (compiled by Matrix Engineering)	Polygon
		TSDF Proximity (National)	lp_TSDFProximity_Percentile	TSDF Proximity (National) (compiled by Matrix Engineering)	Polygon
		Under Age 5 (Statewide)	lp_UnderAge5PCT_NJ_Percentile	Under Age 5 (Statewide) (compiled by Matrix Engineering)	Polygon
		Under Age 5 (National)	lp_UnderAge5PCT_Percentile	Under Age 5 (National) (compiled by Matrix Engineering)	Polygon
		Wastewater Discharge (Statewide)	lp_WastewaterDischargeInd_NJ_Percentile	Wastewater Discharge (Statewide) (compiled by Matrix Engineering)	Polygon

Appendix E1 - Data Resources Table

Page 19

DATABASE NAME: NJTPA_ClimateResiliencyPlan.gdb					
TRANSPORTATION ASSET	FEATURE DATASET	FEATURE CLASS (Source)	FEATURE CLASS NAME	DESCRIPTION	Shape
		Wastewater Discharge (National)	lp_WastewaterDischargeInd_Percentile	Wastewater Discharge (National) (compiled by Matrix Engineering)	Polygon
Basemap	Basemap	NJTPA Asset Vulnerability Study Area	lp_NJTPA_Asset_Vulnerability_Study_Area	Study area for NJTPA asset vulnerability project	Polygon
		County Boundaries (NJDEP)	lpb_stco	NJDEP Statewide County Boundaries	Polygon
		Municipal Boundaries (NJDEP)	lpb_stmun	NJDEP Municipality Boundaries for the State of New Jersey	Polygon
		Parcels for City of Newark	lc_Newark_parcels	Tax parcel polygon data for the City of Newark	Polygon
		Parcels (by County) (NJDEP)	lc_parcels	Tax parcel polygon data per county	Polygon
Tables		Transit Score	t_Transit_Score_by_County		
		Bergen County Assessors	t_Bergen_Assessors		
		Essex County Assessors	t_Essex_Assessors		
		Hudson County Assessors	t_Hudson_Assessors		
		Morris County Assessors	t_Morris_Assessors		
		Passaic County Assessors	t_Passaic_Assessors		
		Somerset County Assessors	t_Somerset_Assessors		
		Sussex County Assessors	t_Sussex_Assessors		
		Union County Assessors	t_Union_Assessors		
		TIP Description (NJTPA-Transportation site download)	t_FY2018_TIP_Descript		
		TIP Financial (NJTPA-Transportation site download)	t_FY2018_TIP_Financial		
		Hurricane Sandy Highway Events (NJTPA-email)	t_Sandy_Highway_Events_10212012-11102012		