Appendix A

Critical Assets and Community Resources Maps

Climate Change Vulnerability Assessment
City of Cambridge, Massachusetts
November 2015
Maps - Critical Assets and Community Resources

The Built Environment

Energy
E.1: Buildings by Heating Fuel Type, City of Cambridge
E.2: Energy Infrastructures Systems, City of Cambridge

Transportation
Tr.1: MBTA Transit Ridership, City of Cambridge
Tr.2: MBTA support infrastructure
Tr.3: Road System and Traffic Count, City of Cambridge
Tr.4: Bridges, Tunnels and Underpasses, City of Cambridge
Tr.5: Parking Garages, City of Cambridge
Tr.6: Bicycle Infrastructures
Tr.7: Bicycle Critical Assets

Water
W.1: Location of surface water bodies, wetlands and dams in Cambridge
W.2: Surface water supply source area, City of Cambridge
W.3: Water distribution system, City of Cambridge
W.4: Stormwater collection system, City of Cambridge
W.5: Combined sewer collection system, City of Cambridge
W.6: Impervious surfaces, City of Cambridge

Telecommunications
Te.1: Telecommunication critical assets, City of Cambridge

Critical Services
CS.1: Critical Services, City of Cambridge

The Urban Forests
UF.1: Percentage of tree canopy in Cambridge
UF.2: Cooling impact of trees in Cambridge

The Social Environment
CR.1: K-12 Schools and Day Care Facilities in Cambridge
CR.2: Affordable Housing, City of Cambridge
CR.3: Pharmacies & Food Assistance, City of Cambridge
CR.4: Municipal Resources, City of Cambridge
CR.5: Community-Based Organizations and Services, City of Cambridge
CR.6: Hazardous Material Sites, City of Cambridge
Cambridge Buildings by Fuel Type

Legend

Cambridge Buildings by Fuel Type
Fuel Description

- GAS
- UNKNOWN (Condo Data)
- OIL
- COMBINATION
- ELECTRIC
- OTHER
- NONE
- WOOD

Cartographer: Laura Smead, City of Cambridge CDD
Coordinate System: NAD1983 StatePlane Massachusetts Mainland FIPS 2001 Feet
Sources: City of Cambridge Census Tracts (2010), City of Cambridge Parcels (FY2014), City of Cambridge Assessor’s Database (2013)
January 23, 2014

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THIS MAP HAS BEEN PREPARED FOR THE CITY OF CAMBRIDGE CLIMATE CHANGE VULNERABILITY ASSESSMENT. IT IS BASED ON GIS DATA PROVIDED BY THE CITY (11/6/2012) AND FROM MASSGIS. USERS OF THIS MAP SHOULD CONSULT PRIMARY SOURCES FOR VERIFICATION OF THE INFORMATION CONTAINED ON THIS MAP. THE CITY OF CAMBRIDGE AND ITS MAPPING CONTRACTORS ASSUME NO LIABILITY FOR THE INFORMATION CONTAINED HEREIN.
Data source: City of Cambridge, November 2012 and January 2014; MassGIS October 2009.

LEGEND

Roads by Jurisdiction
- Interstate
- US Highway
- State Route

Roads by Traffic Count (Average Daily Traffic)
- < 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- > 30,000

Critical Node
Convergence of two or more vehicular access routes with total traffic count exceeding 30,000.

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Data source: City of Cambridge, November 2012 and August 2014.

LEGEND

Bike Path and Road Markings
- Bike Path/Multi-Use Path
- Planned Bike Path/Multi-Use Path
- Bike Lane
- Planned Bike Lane
- Contro Coin
- Cycle Track
- Planned Cycle Track

Shared Lane Pavement Marking
- Planned Shared Lane Pavement Marking
- Edge Line
- Planned Edge Line
- Shared Street
- Planned Shared Street

Hubway Stations

Tr.6

BICYCLING INFRASTRUCTURE
Climate Change Vulnerability Assessment
Cambridge, Massachusetts

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Locations are approximate.
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LEGEND

Existing Tree Canopy (%)

0 - 20
20 - 40
40 - 60
60 - 80
80 - 100

Data source: Temperature calculated from Landsat 3 imagery (30m resolution); Basemap data from Mass GIS. Air temperature estimated from MIT station at date/time of Landsat image.

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Climate Change Vulnerability Assessment
Cambridge, Massachusetts

PERCENTAGE OF TREE CANOPY IN CAMBRIDGE

0 - 20
20 - 40
40 - 60
60 - 80
80 - 100

LEGEND

Existing Tree Canopy (%)

0 - 20
20 - 40
40 - 60
60 - 80
80 - 100

Data source: Temperature calculated from Landsat 3 imagery (30m resolution); Basemap data from Mass GIS. Air temperature estimated from MIT station at date/time of Landsat image.
COOLING IMPACT OF TREES IN CAMBRIDGE

Data source: Temperature calculated from Landsat 5 imagery (30m resolution); Basemap data from Mass GIS. Air temperature estimated from MIT station at date/time of Landsat image.

LEGEND
Estimated Cooling Impact of Tree Canopy (°F)

0 - 2
2 - 4
4 - 6
6 - 8
8 - 10
10 - 12

Locations are approximate
Data source: City of Cambridge, November 2012.

LEGEND

- Community Food Program
- Neighborhood Boundary
- Pharmacy

0 1,000 2,000 Feet

Locations are approximate

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Data source: City of Cambridge, November 2012.

LEGEND
- Community-based service
- Vulnerable population support
- Faith-Based Organizations

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