

## Summary of Environmental Performance at Harvard

### Greenhouse Gas Emissions from Harvard University by Location: FY2010

	2010 Baseline Emissions (MTCDE) <sup>(1)</sup>	% Change Baseline Emissions (MTCDE) FY06-10	2010 Total Emissions (MTCDE)	% Change Total Emissions (MTCDE) FY06-10
Faculty of Arts and Sciences	70,127	-23.0%	87,553	-5.1%
Engineering and Applied Sciences	5,466	-5.4%	5,466	-5.4%
Business	14,123	-37.1%	14,150	-37.0%
Design	1,605	-13.7%	1,605	-13.7%
Divinity	1,019	-25.7%	1,019	-25.7%
Education*	1,717	-16.1%	1,847	-9.8%
Government	2,232	-17.0%	2,232	-17.0%
Law	6,242	-29.5%	7,217	-20.8%
Radcliffe*	1,629	-16.2%	1,629	-16.2%
Public Health*	12,227	-18.6%	12,231	-18.6%
Medical School (Including Dental)*	53,465	-3.4%	58,700	-6.1%
HRES/UOS/Others <sup>(2)</sup>	52,991	-25.6%	59,908	-18.1%
<b>TOTAL - North America Campus only</b>	<b>222,843</b>	<b>-20.3%</b>	<b>253,556</b>	<b>-10.4%</b>

The 2010 Harvard University Greenhouse Gas Inventory represents the full breadth of the University's GHG footprint in North America. The inventory covers more than 26 million square feet of space and reports on all of the critical Kyoto protocol gases from both direct (Scope 1) and indirect (Scope 2) sources.

Harvard's emissions are reported annually in two ways, 1) FY06 vs. FY10 for just our Baseline Buildings (e.g., Buildings that have remained constant since FY 2006) and 2) FY06 vs. FY10 for the Total Campus (including any growth in square footage or usage).

*The data in the table indicate a 10.4% decline in Harvard's overall GHG Emissions since Fiscal Year 2006, including growth, from a Fiscal Year 2006 baseline, with a 20.3% decline in emissions if growth is excluded.*

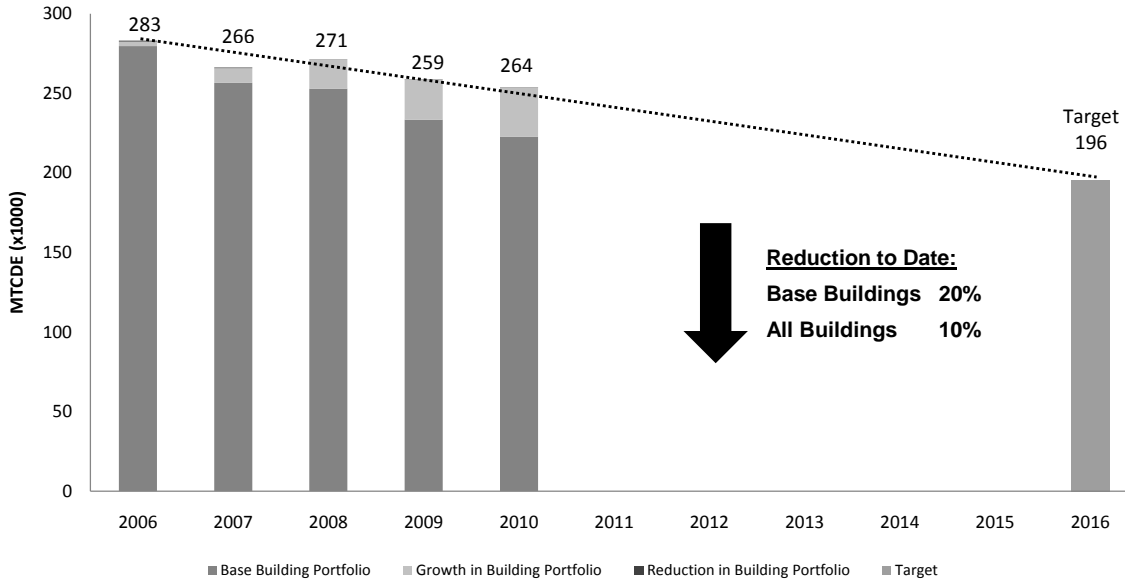
Adjustments to these emissions associated with Harvard's use of biofuels, biomass, Carbon uptake associated with the 3,500 acre Harvard Forest and Renewable Energy Certificates have not been made.

Additional GHG Inventory Reporting information can be found at [www.green.harvard.edu/reporting](http://www.green.harvard.edu/reporting).

\* Schools include buildings that are not on the central utility plant and therefore do not see the benefits of emissions reductions associated with central utilities.

### Harvard University Greenhouse Gas Emissions: FY2006 - FY2010 <sup>(3)</sup>

Expressed in thousands of MTCDE



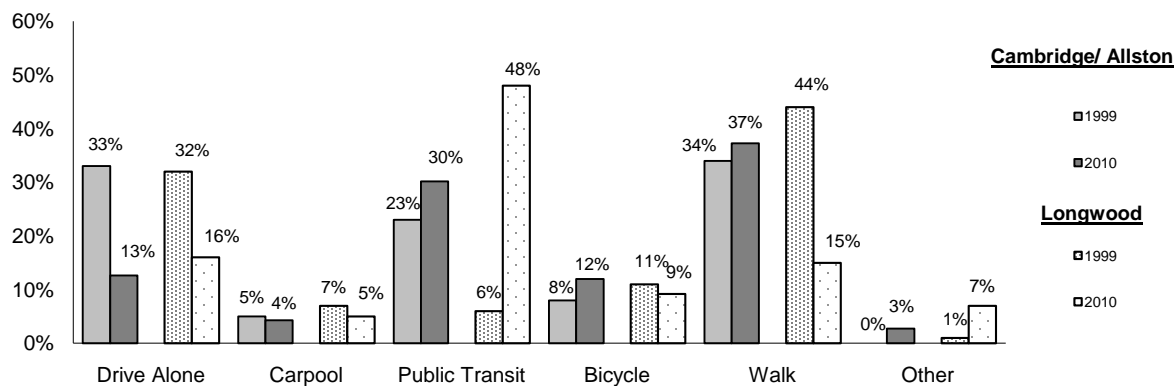
(1) MTCDE: Metric Tons of Carbon Dioxide Equivalent.

(2) HRES refers to Harvard Real Estate Services and UOS refers to University Operations Services.

(3) Emission for FY2006 through FY2009 have been restated based on the new methodology being followed. All North America Campuses are included.

SOURCE: HARVARD OFFICE FOR SUSTAINABILITY AND ENVIRONMENTAL HEALTH AND SAFETY

### Commute Trends: FY1999 - FY2010



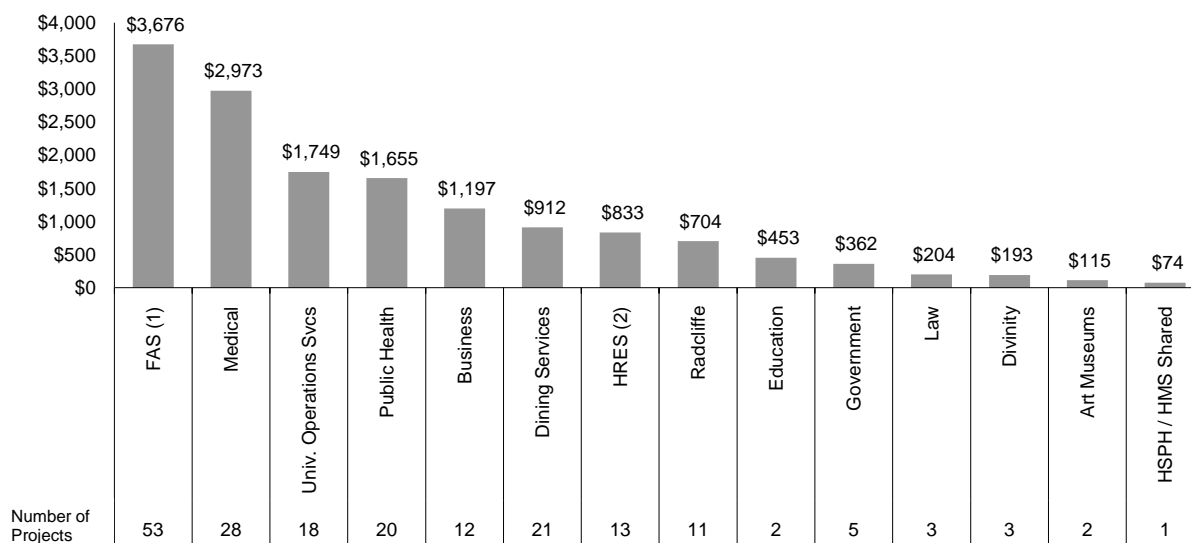
Cambridge Commute Type data is from UOS, Transportation Services Department.  
 Longwood Commute Data is from the Harvard Medical School Parking Office.

### Green Campus Loan Fund: FY2003 - FY2010

The Green Loan Fund is a revolving \$12 million fund that provides capital for high performance campus design, operations, maintenance and occupant behavior projects. Project eligibility guidelines state that projects must reduce the University's environmental impacts and meet specific payback requirements. Additional information can be found at [green.harvard.edu/loan-fund](http://green.harvard.edu/loan-fund).

### Total Amount Loaned per Faculty: FY2002 - FY2010\*

Expressed in thousands of dollars



\* Total amount loaned FY2002 - FY2010 is \$15,098,485. This number includes all open, pending and closed loans.

(1) FAS refers to Faculty of Arts and Sciences.

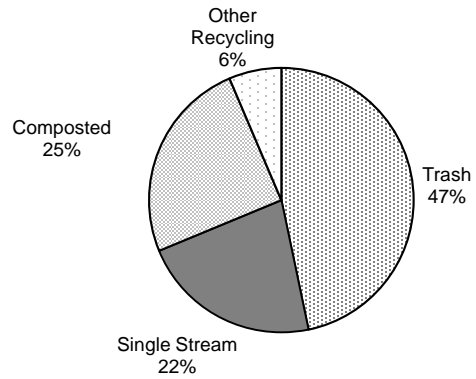
(2) HRES refers to Harvard Real Estate Services.

SOURCE: HARVARD OFFICE FOR SUSTAINABILITY

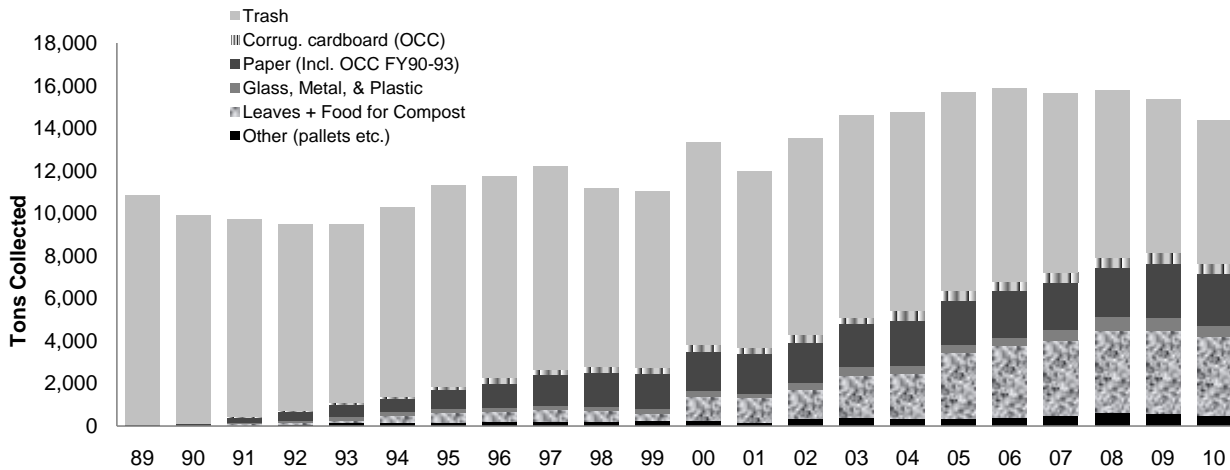
**Waste and Recycling: FY2010**

	Recycling Rate	Trash (in tons)
Faculty of Arts and Sciences	52%	2,396
SEAS <sup>(1)</sup>	67%	40
Business	62%	255
Design	69%	54
Divinity	70%	12
Education	63%	34
Government	34%	179
Law	52%	208
Radcliffe	57%	70
Medical	52%	947
Public Health & Dental	58%	253
HRES <sup>(2)</sup>	59%	272
Libraries	64%	72
Museums	80%	13
Other: UOS, UIS, HU Press	55%	590
<b>Average Recycling Rate</b>	<b>54%</b>	

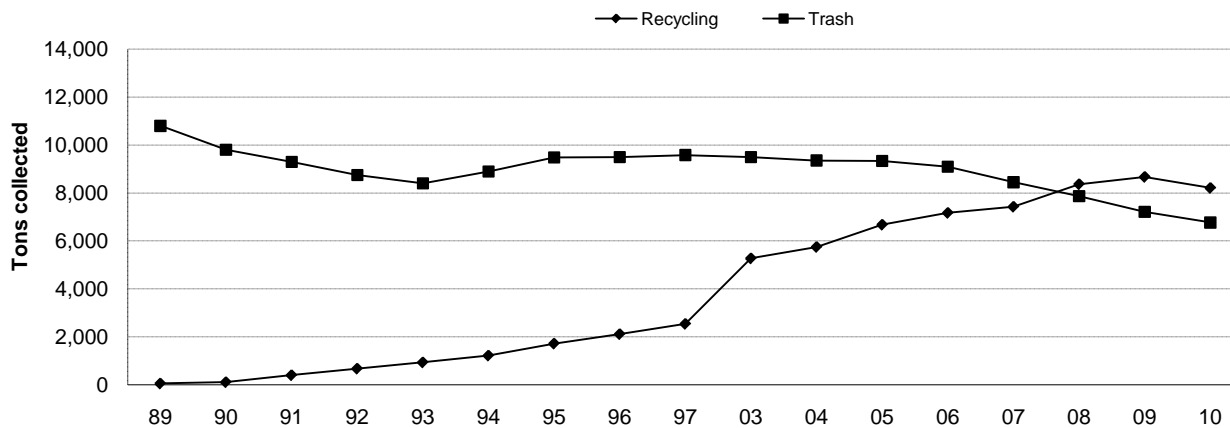
**Harvard University Refuse: FY2010**



**Harvard University Refuse: FY1989 - FY2010**



**Harvard University Trash and Recycling: FY1989 - FY2010**



(1) SEAS refers to Engineering and Applied Sciences.

(2) Harvard Real Estate Services recycling/trash data collected for University and Commercial Real Estate only. Does not include Residential Real Estate properties.

SOURCE: HARVARD OFFICE FOR SUSTAINABILITY AND UNIVERSITY OPERATIONS SERVICES

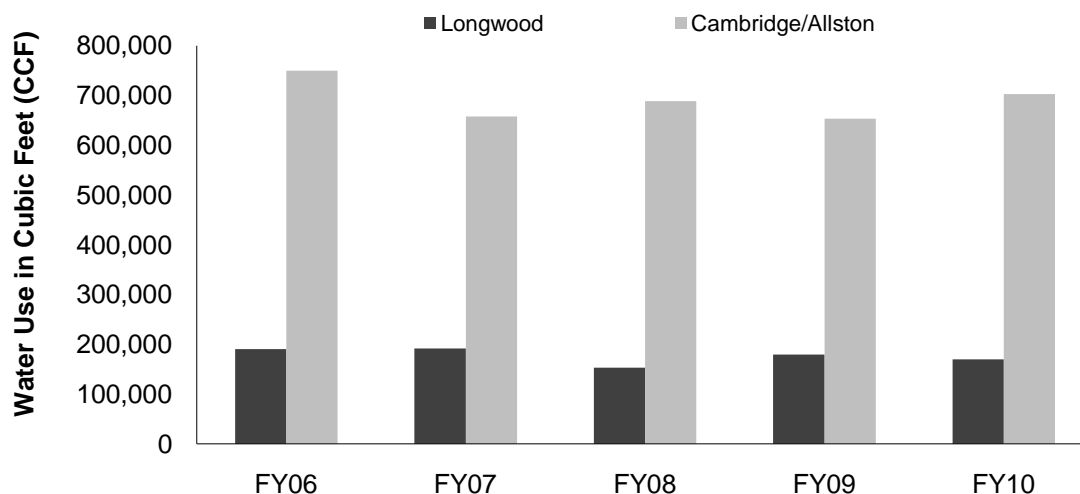
Solid Waste and Recycling data for Cambridge and Allston was reported by UOS, Solid Waste and Recycling Department.

Solid Waste and Recycling data for the Longwood campus was reported by the HMS and HSPH Operations Departments.

### Water Use in Cubic Feet (CCF): FY2010

	Water Use (CCF)	Per 1,000 Sq Ft	% Change Total Water Use (CCF) FY09-10
<b>Arts and Sciences</b>	237,362	25	1%
<b>Engineering and Applied Sciences</b>	4,034	12	-10%
<b>Business</b>	73,986	48	9%
<b>Design</b>	1,594	9	6%
<b>Divinity</b>	2,623	14	-15%
<b>Education</b>	3,093	12	-12%
<b>Government</b>	9,442	36	7%
<b>Law</b>	18,707	16	-11%
<b>Radcliffe</b>	2,845	16	-2%
<b>Medical (including Dental)</b>	144,402	54	-10%
<b>Public Health</b>	25,612	32	33%
<b>Harvard Real Estate Services</b>	209,000	n/a	-2%
<b>Other</b>	139,821	n/a	54%
<b>TOTAL</b>	<b>872,521</b>	<b>n/a</b>	<b>5%</b>

### Water Use: FY2006 - FY2010



Cambridge & Allston data is from the University Operations Services Utility Reports.

Harvard Medical School and Dental School data is reported by HMS Facilities Operations.

Harvard School of Public Health data is reported by HSPH Facilities Operations.

SOURCE: HARVARD OFFICE FOR SUSTAINABILITY AND UNIVERSITY OPERATIONS SERVICES

**Leadership in Energy and Environmental Design (LEED) Projects as of FY2010**

LEED is a rating system for green buildings and provides a nationally accepted third-party verification that a

building project meets the highest performance standards.

**LEED Certified:** The project has been third-party certified to meet the US Green Building Council LEED Standards.

**LEED Registered:** The project has registered for LEED Certification, but is not yet verified.

As of June 30, 2010, Harvard had 28 projects certified (10 since end of FY09) and 50 registered projects.

As of March 08, 2011, there have been 17 new LEED certifications and 9 new registrations in FY11.

**Registered LEED Projects by School/Department**

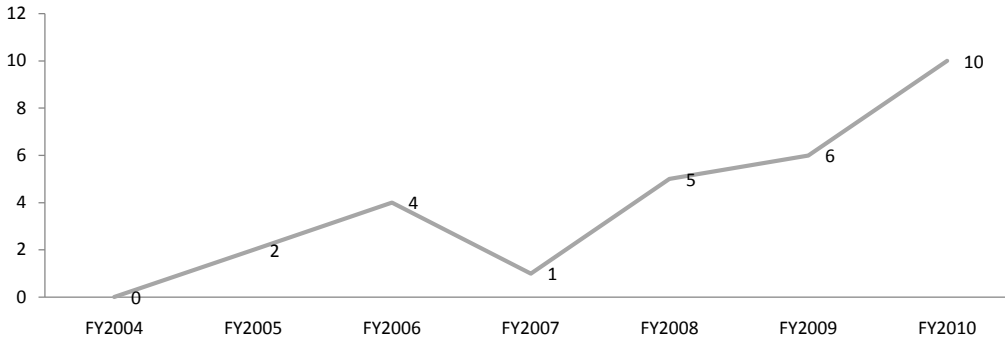
Project Type	Gross Sq Footage
<b>Arts and Sciences</b>	
Child Care	7,000
Dormitory	57,869
Laboratory	181,557
Labs/Office	1,700
Locker Room/Office	5,150
Museum	1,497
Office	22,610
<b>Engineering and Applied Sciences</b>	
Laboratory	31,280
Office	2,003
<b>Allston</b>	
Labs/Office	1,100,000
<b>Arnold Arboretum</b>	
Labs/Office	43,500
<b>Art Museum</b>	
Museum	132,310
Storage	66,101
<b>Business</b>	
Classroom	4,947
Gymnasium	118,600
<b>Education</b>	
Classroom	17,080
<b>Government</b>	
Classroom	2,928
Library	9,762
Office	6,019
<b>Harvard Management Company</b>	
Office	66,101
<b>Law</b>	
Classroom/Office	518,783
Dormitory	56,542
<b>Library</b>	
Library	126,899
<b>Medical</b>	
Laboratory	40,427
Office	43,900
<b>Public Health</b>	
Office	2,387
<b>Radcliffe</b>	
Office	42,732
<b>Total</b>	<b>2,709,684</b>

**Certified LEED Projects**

*Italics = New in FY10*

Project Name	Building Type	Level	Gross Sq Footage
<b>Arts and Sciences</b>			
<i>Littauer Fine Arts Library</i>	Library	Gold	23,300
<i>Holyoke Center 4th Floor</i>	Office	Gold	7,731
<i>Jacobsen Lab</i>	Lab	Gold	5,910
<i>Zhuang Lab</i>	Lab	Gold	3,435
<i>Schreiber Lab</i>	Lab	Gold	1,700
<b>Business</b>			
Aldrich Hall	Classroom	Silver	102,825
Gallatin Hall	Housing	Gold	48,218
Hamilton Hall	Housing	Gold	48,194
<i>McCulloch Hall</i>	Housing	Platinum	35,127
McCullum Hall	Classroom	Gold	8,165
<i>Class of 1959 Memorial Chapel</i>	Mixed Use	Gold	6,932
Wyss Hall	Office	Gold	6,155
<b>Education</b>			
Mather Dunster	Kitchen/Servery	Silver	15,870
<b>Divinity</b>			
<i>Rockefeller Hall</i>	Mixed Use	Gold	26,715
<b>Harvard Credit Union</b>			
<i>Credit Union - 104 Mt. Auburn</i>	Office	Silver	6,826
<b>Harvard Real Estate Services/University Information Systems</b>			
60 Oxford Street	IT	Certified	93,923
<b>Harvard Real Estate Services</b>			
One Western Avenue	Housing	Silver	229,000
5 Cowperthwaite Street	Housing	Gold	208,343
10 Akron Street	Housing	Gold	106,569
Zero Arrow Street	Theater/Office	Certified	40,012
90 Mount Auburn Street	Library	Gold	30,405
2 Grant Street	Housing	Platinum	1,000
<b>Law</b>			
125 Mt. Auburn, 2nd Fl.	Office	Silver	10,276
Griswold	Office	Platinum	2,078
<b>Medical</b>			
<i>Depace Lab</i>	Lab	Gold	1,800
<b>Public Health</b>			
Landmark Center	Mixed Use	Certified	42,000
<b>Radcliffe</b>			
Schlesinger Library	Library	Certified	25,988
<b>University Operations Services</b>			
Blackstone South	Office	Platinum	40,000
<b>Total</b>			<b>1,178,497</b>
<b>Total Registered and Certified LEED</b>			<b>3,888,181</b>

**Harvard LEED Certified Projects: FY2004 - FY2010**



SOURCE: HARVARD OFFICE FOR SUSTAINABILITY