

UMB - Building Btu/Gsf Report for Oct (FY15 vs FY16 vs FY17)

Building Name	Building Code	GSF	Electric			Heating (Steam/Natural Gas)			Total Btu/Sq. Ft.			HVAC % Ventilation Air	Building Use Type
			2015	2016	2017	2015	2016	2017	2015	2016	2017		
School of Pharmacy	841	103,166	11,378	13,118	10,347	10,391	8,679	6,594	21,769	21,797	16,942	90%	Research
School of Pharmacy Addition	841	128,591	16,514	15,713	20,780	5,367	5,768	5,275	21,881	21,481	26,054	80%	Research
Biomedical Research (108 N. Greene St.)	8081	56,759	12,036	11,427	12,363	8,289	7,593	7,358	20,324	19,020	19,720	100%	Research
Howard Hall	826	232,384	13,265	13,149	11,907	12,897	13,124	14,358	26,161	26,273	26,265	100%	Research
Health Sciences Facility I (HSF I)	8091	214,946	8,511	8,638	7,791	11,079	10,472	12,211	19,590	19,110	20,003	100%	Research
Bressler Research Building	8050	334,571	16,616	15,802	16,052	9,133	9,183	10,339	25,749	24,985	26,391	100%	Research
IHV	8089	210,695	10,857	9,283	10,436	5,817	6,049	5,647	16,674	15,332	16,084	90%	Research
Health Sciences Facility II (HSF II)	8100	191,572	12,464	13,364	14,444	9,686	10,563	9,677	22,150	23,927	24,121	100%	Research
Allied Health Building	8087	84,391	6,401	5,909	5,802	4,173	1,175	8,885	10,574	7,084	14,687	100%	Research
School of Dentistry	8101	366,540	7,886	7,467	7,608	3,870	5,049	6,644	11,755	12,516	14,252	80%	Research
Medical School Teaching Facility (MSTF)	839	314,158	8,466	7,732	9,213	6,982	7,300	6,504	15,448	15,031	15,717	100%	Research
General Research Building	8001	38,147	9,034	12,290	8,627	10,410	8,066	8,358	19,443	20,356	16,984	100%	Research
Westminster Hall	8060	6,420	12,772	9,563	10,201	11,820	2,694	903	24,591	12,257	11,105	15%	Offices
Pine St. Station (212 N. Pine St.)	8058	9,028	10,166	7,672	10,023	166	2,857	1,872	10,333	10,529	11,894	15%	Offices
Pharmacy Learning Center	8104	15,621	3,590	3,465	2,512	2,792	3,703	1,063	6,382	7,168	3,575	15%	Offices
Pearl Street Garage (O&M Offices)	8067	36,806	7,142	8,064	7,682	3,412	2,896	4,526	10,554	10,960	12,208	15%	Offices
Recycling Center (663 W. Saratoga St)	855	6,844	-	-	-	6,740	9,551	6,879	6,740	9,551	6,879	0%	Offices
Environmental Health & Safety Building	8062	16,828	5,192	5,239	4,812	-	131	16,219	5,192	5,370	21,031	15%	Offices
Penn Street Garage (Offices)	8078	6,912	17,860	10,583	9,985	20,297	3,233	7,348	38,157	13,816	17,333	15%	Offices

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Cops Building / Penn Police	8114	800	6,594	6,316	3,843	-	-	-	6,594	6,316	3,843	15%	Offices
Sch. of Nursing - New (635 W. Lombard)	833	151,824	5,731	5,720	6,521	4,298	3,876	1,097	10,028	9,596	7,619	20%	Offices
East Hall	806	7,277	2,132	1,590	1,446	2,381	1,872	2,430	4,513	3,462	3,876	15%	Offices
Sch of Nursing - Old (655 W. Lombard)	833	67,283	3,406	4,718	2,848	2,742	3,835	1,923	6,148	8,552	4,771	20%	Offices
Health Sciences & Human Services Library	8092	175,961	6,100	5,656	5,022	1,855	1,974	2,226	7,955	7,629	7,248	15%	Offices
Saratoga Office Tower	8115	98,901	4,389	4,339	4,313	1,693	1,542	1,919	6,081	5,881	6,231	15%	Offices
School of Law	8102	256,353	6,294	5,869	5,340	5,112	5,274	4,273	11,405	11,143	9,613	15%	Offices
300 Russell St (600 Washington Blvd)	8118	4,132	2,844	2,421	2,440	121	218	194	2,965	2,639	2,634	15%	Offices
George Gray Hall	805	18,528	2,031	1,619	1,373	1,877	1,464	1,909	3,908	3,083	3,282	15%	Offices
Davidge Hall	804	19,490	1,511	1,836	1,408	1,784	1,392	1,815	3,295	3,228	3,223	15%	Offices
Pine St. Annex Building	8103	20,197	3,838	3,789	4,413	216	534	216	4,054	4,322	4,629	15%	Offices
Lexington Building	8128	115,700	2,392	2,237	2,155	295	243	209	2,687	2,479	2,364	15%	Offices
100 N Greene Street	8085	32,683	4,938	4,113	3,644	-	-	-	4,938	4,113	3,644	15%	Offices
737 W Lombard St	815	75,513	3,780	2,996	3,594	2,917	3,097	2,845	6,697	6,093	6,440	15%	Offices
School of Social Work - East	8035	72,176	6,196	5,795	5,769	13	1,396	215	6,209	7,191	5,984	15%	Offices
School of Social work - West	802	22,704	2,255	2,150	1,894	26	495	368	2,281	2,645	2,263	15%	Offices
All State Buildings *		3,513,901	9,078	8,793	8,960	6,132	6,191	6,463	15,209	14,983	15,423		State

* Note: All State Buildings total values are a group average for each energy source. They are not a sum of each building's respective Btu/Gsf values (i.e. it is not possible to add ratios with different denominators).

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			2015	2016	2017	2015	2016	2017	2015	2016	2017		
Athletic Facility (Pratt Gym)	840	27,928	2,596	3,045	3,204	-	-	-	2,596	3,045	3,204	25%	Sports
MIEMSS	8096	45,000	10,032	9,326	9,431	12,126	7,876	7,516	22,158	17,201	16,947	20%	Offices
SMC Campus Center	822	122,056	8,299	7,508	7,456	7,261	7,523	8,591	15,560	15,031	16,047	15%	Offices
Dental Museum	803	32,977	2,781	2,821	2,728	2,634	2,060	2,678	5,415	4,881	5,406	15%	Museum
Pascault Row	8038	52,469	2,485	2,415	2,624	-	1,252	1,031	2,485	3,667	3,655	15%	Housing
Plaza Garage	817	188,652	1,219	1,151	1,130	-	-	-	1,219	1,151	1,130	0%	Garage
Baltimore Grand Garage	8882	315,028	802	689	602	43	76	21	845	765	623	0%	Garage
Saratoga Street Garage	8115	337,001	778	716	653	-	-	-	778	716	653	0%	Garage
Lexington Garage	8049	238,598	860	773	830	-	-	-	860	773	830	0%	Garage
Pearl Street Garage	8067	255,591	417	401	350	-	-	-	417	401	350	0%	Garage
Penn Street Garage	8078	305,323	703	728	692	-	-	-	703	728	692	0%	Garage
Pratt Garage Garage	840	335,136	488	443	433	-	-	-	488	443	433	0%	Garage
All Auxiliaries Buildings		2,255,759	1,470	1,378	1,400	643	576	614	2,113	1,955	2,014		Auxiliary

* Note: All Auxiliaries Buildings total values are a group average for each energy source. They are not a sum of each building's respective Btu/Gsf values (i.e. it is not possible to add ratios with different denominators). Fayette Housing deleted by GV on 9/27/11 (because we do not have control over its operation).

UMB Resiliency Strategies Matrix

12/6/2016

STRATEGY COMPONENTS

Strategy Objective Policy

STATUS OF COMPLETION TO DATE

Ex. Cond. Inventory ID Deficit Set Goals Notes/Remarks

Strategy	Objective	Policy	Ex. Cond. Inventory	ID Deficit	Set Goals	Notes/Remarks
D- Flooding & Hurricane Preparedness						
1-	Raise electrical infrastructure					
	1a- Identify outdated elements		x of y total	x	all x replaced by _	see E.1 below re substations
2-	Basement Sump Pumps					
	2a- Assess age/condition: # outdated?		x of y total	x	all x replaced by _	for each phase
	2b- Develop life/cycle replacement plan		x1, x2, x3		replacement dates	
3-	Roof Drains					
	3a- Assess age/condition: # outdated?					newly suggested so just starting
	3b- Develop life/cycle replacement plan					
E- Redundancy Planning						
1-	Create redundant electrical supply					
	1a- Build 2 new substations, fed separately		1	1	2 new by 2025	design in 2017; construction start 2018?
2-	Build campus communication redundancy					
	2a- Servers in separate IT locations		1 location?	1	2 locations by 2018	601 W Lombard & 300 W Lexington
	2b- Maintain/strengthen fire alarm redundancy		being assessed	?		
	2c- Separate repeaters for radio communications		2 locations	none?	maintain & monitor	655 W Baltimore & 220 N Arch
F- Mitigate the Urban Heat Island effect on campus						
1-	Increase tree canopy coverage on campus					
	1a- Enlarge undersized tree pits		complete			
	1b- Increase # of trees on campus by 10% by 2021		In progress		8/1/2017	
	1c- Swap columnar with larger canopy trees		In progress		8/1/2017	
2-	Increase the amount of green space on campus					
	2a- ID underutilized hardscape for conversion		In progress		4/1/2017	
	2b- Add pocket parks into campus master plan		In progress		4/1/2017	
3-	Improve reflectivity of roofs & parking lots					
	3a- ID roofs to improve & strategies		In progress		Unknown	
	3b- ID parking lots to improve & strategies		In progress		Unknown	
G- Community Resiliency Leadership Network						
1-	ID lead community contacts & coordinate actions					
	1a- ID who these leaders are		4 groups			also check city & state as 2 more groups
	1b- Meet/confirm their willingness to participate		done?			
2-	ID/evaluate current plans in place					
	2a- Research all these current plans		requested		11/15/2016	plans requested from partners;BJ will follow-up
	2b- Evaluate these & find coordination opportunities		after received		12/1/2016	
3-	Develop a coordinated plan & implementation guide					
	3a- Prepare a coordinated resiliency community plan		after 2 completed			
	3b- Set method for regular communication & quick response		after 2 completed			

KEY

completed
in progress
no progress