

APPENDIX 9 | FIRE FLOW ANALYSIS BY BUILDING

SHIPPENSBURG UNIVERSITY MASTER PLAN
REQUIRED FIRE FLOW ANALYSIS by Building
Pennoni Associates, Inc.
11/29/2007

APPENDIX 9

Building	Function	Construction Date	Gross Square Feet	Bldg Type	Sprinkled	Assignable Square Feet	Req. Fire Flow (GPM)	Sprinkler Reduction (GPM)	Flow Duration (Hours)
Little Red School House	Demonstration	1865	997	N/A		805			
Old Main	Administration	1871	113,943	4	Partial *	50,667	6,000	3,000	3
Stewart Hall	Classroom	1893	11,936	4	N	5,956	2,000	2,000	2
Horton Hall	Offices	1894	57,535	4	N	34,918	4,250	4,250	4
Martin House	Residence	1908	8,378	N/A		6,341			
Gilbert Hall	Classroom	1912	13,926	4	S	8,370	2,250	563	2
Huber Art Center	Classroom	1931	19,352	2or3	N	11,902	2,000	2,000	2
Henderson Gym	Athletics	1937	36,372	3	N	25,029	2,750	2,750	2
Reed Operations Center	Maintenance	1937	36,194	2	N	27,526	2,750	2,750	2
Rowland Hall	Classroom	1937	27,528	2or3	N	14,441	2,500	2,500	2
Shearer Hall	Classroom	1937	23,209	2or3	N	10,779	2,250	2,250	2
Memorial Auditorium	Assembly	1951	34,670	3	Partial *	18,937	2,750	1,375	2
Steam Plant	Utility	1952	13,754	2	N	10,188	1,750	1,750	2
Reisinger House	Maintenance	1954	1,866	N/A		1,272			
Kriner Hall	Food Service	1957	32,611	2	N	23,857	2,500	2,500	2
Wright Hall	Offices	1958	33,257	2	N	20,638	2,750	2,750	2
McCune Hall	Residence Hall	1959	33,697	2	S	21,947	2,750	688	2
Huber Art Center Annex	Classroom	1961	4,854	N/A		2,894			
Shippen Hall	Classroom	1963	48,473	2	S	28,774	3,250	813	2
Harley Hall	Residence Hall	1964	59,097	2	S	36,956	3,500	875	2
Kieffer Hall	Residence Hall	1964	52,498	2	S	32,676	3,250	813	2
Lackhove Hall	Residence Hall	1964	52,961	2	S	32,473	3,250	813	2
Naugle Hall	Residence Hall	1965	103,260	2	S	64,583	4,750	1,188	2
Reisner Hall	Food Service	1965	51,296	2	N	38,890	3,250	3,250	3
Ezra Lehman Memorial Library	Library	1967	76,762	2	N	61,451	4,000	4,000	4

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McLean Hall	Residence Hall	1967	99,878	2	S	67,935	4,500	1,125	2
Ceddia Union Building	Student Union	1970	83,743	2	S	49,442	4,250	1,063	2
Dauphin Humanities Center	Classroom	1970	47,671	2	Partial	27,688	3,250	1,625	2
Mathematics and Computing Tech Ct	Classroom	1996	38,982	2	S	21,833	2,750	688	2
Faculty Office Building	Offices	1970	6,550	N/A		4,325			
Franklin Science Center	Classroom	1970	119,640	2	S	78,005	5,000	1,250	2
Heiges Field House	Athletics	1970	91,634	3and4	N	68,877	5,500	5,500	4
Mowrey Hall	Residence Hall	1970	91,108	2	S	57,491	4,250	1,063	2
Seth Grove Grandstand	Athletics	1972	19,257	2	N	9,321	2,000	2,000	2
Bookstore Storage	Storage	1974	1,938	N/A		1,804			
Dermestid Facility	Research	1974	138	N/A		100			
Grounds Storage	Maintenance	1974	1,535	N/A		1,305			
Etter Health Center	Medical	1976	8,998	N/A		5,003			
Seavers Apartments	Residence Hall	1976	115,603	2	S	75,887	5,000	1,250	2
Centrex Building	Telephone	1977	1,159	N/A		1,001			
Grace B. Luhrs Univ. Ele. School	Laboratory School	2001	33,195	3	S	18,159	2,500	625	2
John L. Grove Hall	Classroom	1997	69,278	2	S	36,424	3,750	938	2
Rife House	Alumni Affairs	UNK	7,359	N/A		4,532			
Fogelsonger Warehouse	Storage	UNK	8,000	N/A		7,880			
Water Tower	Storage	1987	7,693	N/A		2,097			
Street Hockey Pavilion	Recreation	1997	11,223	1	N	11,081	1,500	1,500	2
Picnic Pavilion	Recreation	1997	666	N/A		0			
Pump House	Utility	1962	400	N/A		294			
H. Ric Luhrs Performing Arts Center	Assembly	2005	92,380	2	S	31,246	4,250	1,063	2
TOTAL			1,906,454			1,174,000			

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Building	Function	Construction Date	Square Feet	Bldg Type	Sprinkled	Assignable Square Feet	Req. Fire Flow (GPM)	Sprinkler Reduction (GPM)	Flow Duration (Hours)
Conference Center	Classroom	2005	25,917	2	S	12,506	2,500	625	2
Davis House	Offices	UNK	3,925	N/A		2,088			
Spiritual Center	Assembly	2001	9,198	N/A		7,272			
Stoneridge Commons	Residence Hall	2000	50,655	3	S	50,655	3,250	813	2
TOTAL			89,695			72,521		1,778	2

SOURCE: Director for Planning and Engineering.

Partial Sprinkled Bldgs: Old Main - Basement and Attic; Memorial Auditorium - Stage and Work Room; Dauphin - Boiler Room

Spiritual Center - Mechanical Room