## - APPENDIX E – CRITICAL FACILITIES

<b>Emergency Services Facilities</b>									
AMED 400 Tyrone	1216 Blair Ave	Tyrone Municipality							
AMED 430 Altoona	1012 7 <sup>th</sup> Ave	Altoona Municipality							
AMED 440 Roaring Spring	808 E Main St	Roaring Spring Borough							
AMED 480 Lakemont	312 Lotz Ave	Logan Township							
Bellwood 450	601 N 3 <sup>rd</sup> St	Bellwood Borough							
Duncansville 420	1414 Peach St	Duncansville Borough							
Duncansville 429	1934 Plank Rd	Allegheny Township							
Hollidaysburg 410	801 Scotch Valley Rd	Hollidaysburg Borough							
Hollidaysburg 419	303 W Allegheny St	Martinsburg Borough							
Hollidaysburg 419	1381 Plank Rd	Allegheny Township							
Williamsburg 490	420 W 2 <sup>nd</sup> St	Williamsburg Borough							
Blair County Emergency Operations Center	615 4 <sup>th</sup> St	City of Altoona							

	Fire Stations			
Tyrone Blazing Arrow Fire Department	1216 Blair Ave	Tyrone	PA	16686
Northern Blair County Forest Fire Crew	1260 Lincoln Ave	Tyrone	PA	16686
Altoona Fire Department	1319 Washington Ave	Altoona	PA	16601
Claysburg Fire Department	13223 Dunnings Hwy	Claysburg	PA	16625
Bald Eagle Fire Department	13389 S Eagle Valley Rd	Tyrone	PA	16686
Freedom Township Fire Department	139 Municipal St	East Freedom	PA	16637
Greenwood Fire Department	1500 E Pleasant Valley Blvd	Altoona	PA	16602
Tyrone Neptune Fire Department	1701 Lincoln Ave	Tyrone	PA	16686
Martinsburg Fire Department	205 S Market St	Martinsburg	PA	16662
Phoenix (Hollidaysburg) Fire Deparment	206 Wayne St	Hollidaysburg	PA	16648
Pinecroft Fire Department	2134 Old 6th Avenue Rd	Altoona	PA	16601
Geeseytown Fire Department	215 Mary St	Hollidaysburg	PA	16648
Tipton-Antis Fire Department	269 Tipton Road	Tipton	PA	16684
Newburg Fire Department	2808 Washington Ave	Altoona	PA	16601
Williamsburg Fire Department	305 E 2nd St	Williamsburg	PA	16693
Lakemont Fire Department	312 Lotz Ave	Altoona	PA	16602
Duncansville Fire Department	313 14th St	Duncansville	PA	16635
Excelsior (Bellwood) Fire Department	399 S 1st St	Bellwood	PA	16617
Logan United Fire Department	611 Grandview Rd	Altoona	PA	16601
Allegheny Township Fire Department	651 Sugar Run Rd	Altoona	PA	16601
Sinking Valley Fire Department	710 Laurel Ln	Altoona	PA	16601
Friendship Fire Department	808 E Main St	Roaring Spring	PA	16673
Logan Township United (Kittaning Trail) Fire Department	937 Edison Ave	Altoona	PA	16601

	Police Stations			
Martinsburg Borough Police Dept	109 S Mulberry St	Martinsburg	PA	16662
Allegheny Township Police Dept	3131 Colonial Dr	Duncansville	PA	16635
Altoona Police Dept	1106 16th St	Altoona	PA	16601
Bellwood Borough Police Dept	516 Main St	Bellwood	PA	16617
Blair Township Police Dept	375 Cedarcrest Dr	Duncansville	PA	16635
Duncansville Boro Police Dept	1146 3rd Ave	Duncansville	PA	16635
Freedom Township Police Dept	131 Municipal St	East Freedom	PA	16637
Greenfield Township Police Dept	477 Ski Gap Rd	Claysburg	PA	16625
Hollidaysburg Borough Police Dept	401 Blair St	Hollidaysburg	PA	16648
Logan Township Police Dept	100 Chief Logan Cir	Altoona	PA	16602
North Woodbury Township Police Dept	113 Cranberry Rd	Martinsburg	PA	16662
Roaring Spring Borough Police Dept	616 Spang St	Roaring Spring	PA	16673
Tyrone Police Dept	1100 Logan Ave	Tyrone	PA	16686
Williamsburg Borough Police Dept	305 E 2nd St	Williamsburg	PA	16693
Pennsylvania State Police Troop G	1510 North Juniata St	Hollidaysburg	PA	16648

Hospitals										
UPMC Altoona	620 Howard Avenue	Altoona	PA	16601						
James E Van Zandt Va Medical Center	2907 Pleasant Valley Boulevard	Altoona	PA	16602						
Healthsouth Rehabilitation Hospital Of Altoona	2005 Valley View Boulevard	Altoona	PA	16602						
Tyrone Hospital	187 Hospital Drive	Tyrone	PA	16686						
Nason Hospital	105 Nason Drive	Roaring Spring	PA	16673						

Claysburg-Kimmel El School   240 Ck Elementary Drive   Claysburg   PA   16625		Schools			
Juniata El Sch 418 N 8th Ave Juniata Altoona PA 16601 Logan El Sch 301 Sycamore Street Altoona PA 16602 Pleasant Valley El Sch 310 Cayuga Avenue Altoona PA 16602 Bellwood Antis Ms 400 Martin Street Bellwood PA 16617 Martinsburg El Sch 415 Spring Street Martinsburg PA 16662 Tyrone Area Ms 1001 Clay Ave Tyrone PA 16686 Mowrie A Ebner El Sch 308 Hillside Avenue Altoona PA 16601 Spring Cove El Sch 137 Spring Cove Dr Roaring PA 16673 Spring Irving El Sch 110 Cherry Ave Altoona PA 16601 Tyrone Area El Sch 601 Clay Avenue Tyrone PA 16686 Altoona Area El Sch 61 Clay Avenue Tyrone PA 16686 Altoona Area Hs 1415 6th Ave Altoona PA 16601 Tyrone Area Hs 1001 Clay Ave Tyrone PA 16686 Charles W Longer El Sch 1320 Union St Hollidaysburg PA 16648 Lewis M Myers El Sch 220 Martin Street Bellwood PA 16601 Kimmel Alternative School 900 S Jaggard Street Altoona PA 16602 Altoona Area Jr Hs 1400 7th Ave Altoona PA 16602 Altoona Area Jr Hs 1400 7th Ave Altoona PA 16603 Spring Cove Ms 185 Spring Cove Drive Roaring PA 16636 Spring Cove Ms 185 Spring Cove Drive Roaring PA 16638 Spring Cove Ms 185 Spring Cove Drive Roaring PA 16648 Hollidaysburg Area Shs 1510 North Montgomery Street Bellwood PA 16617 Bellwood-Antis Hs 400 Martin Street Bellwood PA 16603 Bellwood-Antis Hs 400 Martin Street Bellwood PA 16604 Hollidaysburg Area Shs 1510 North Montgomery Street Bellwood PA 16603 Bellwood-Antis Hs 400 Martin Street Bellwood PA 16604 Bellwood-Antis Hs 400 Martin Street Bellwood PA 16604 Claysburg-Kimmel Hs 531 Bedford St Claysburg PA 16648 Claysburg-Kimmel Hs 531 Bedford St Claysburg PA 16662 Central Pa Digital Lrng 721 N. Juniata St. Suite 3 Hollidaysburg PA 16662 Penn-Lincoln El Sch 411 12th St Altoona PA 16602 Williamsburg Community El Sch 16 Sage Hill Dr Williamsburg PA 16603	Claysburg-Kimmel El School	240 Ck Elementary Drive	Claysburg	PA	16625
Logan El Sch   301 Sycamore Street Greenwood   Altoona   PA   16602	Greater Altoona Ctc	1500 4th Avenue	Altoona	PA	16602
Pleasant Valley El Sch 310 Cayuga Avenue Altoona PA 16602 Bellwood Antis Ms 400 Martin Street Bellwood PA 16617 Martinsburg El Sch 415 Spring Street Martinsburg PA 16662 Tyrone Area Ms 1001 Clay Ave Tyrone PA 166601 Spring Cove El Sch 308 Hillside Avenue Altoona PA 16601 Spring Cove El Sch 137 Spring Cove Dr Roaring Spring PA 16673 Irving El Sch 110 Cherry Ave Altoona PA 16601 Tyrone Area El Sch 601 Clay Avenue Tyrone PA 166601 Tyrone Area El Sch 601 Clay Avenue Tyrone PA 166602 Tyrone Area Hs 1415 6th Ave Altoona PA 16602 Tyrone Area Hs 1001 Clay Ave Tyrone PA 166686 Charles W Longer El Sch 1320 Union St Hollidaysburg PA 16678 Kimmel Alternative School 900 S Jaggard Street Altoona PA 16602 Altoona Area Jr Hs 1400 7th Ave Altoona PA 16602 Juniata Gap El Sch 3365 Juniata Gap Road Altoona PA 16603 Spring Cove Ms 185 Spring Cove Drive Roaring PA 16673 Spring Cove Ms 185 Spring Cove Drive Roaring PA 16673 Williamsburg Community Jshs 515 W Third St Williamsburg PA 16648 Hollidaysburg Area Shs 1510 North Montgomery Hollidaysburg PA 16648 Bellwood-Antis Hs 400 Martin Street Bellwood PA 16617 Baker El Sch 108 W Ward Ave Altoona PA 16604 Hollidaysburg Area Jhs 1000 Hewit St Hollidaysburg PA 166648 Claysburg-Kimmel Hs 531 Bedford St Claysburg PA 16662 Central Hs 718 Central High Road Martinsburg PA 16662 Central Pa Digital Lrng 721 N. Juniata St. Suite 3 Hollidaysburg PA 16662 Penn-Lincoln El Sch 411 12th St Altoona PA 16600 Williamsburg Community El Sch 451 Gage Hill Dr Williamsburg PA 16602	Juniata El Sch	418 N 8th Ave Juniata	Altoona	PA	16601
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Street  Bellwood-Antis Hs  400 Martin Street  Bellwood  PA  16617  Baker El Sch  108 W Ward Ave  Altoona  PA  16602  Hollidaysburg Area Jhs  1000 Hewit St  Claysburg-Kimmel Hs  531 Bedford St  Central Hs  718 Central High Road  Martinsburg  PA  16648  Central Pa Digital Lrng  Foundation Cs  Penn-Lincoln El Sch  411 12th St  Milliamsburg  PA  16693	Frankstown El Sch	2463 Reservoir Rd	Hollidaysburg	PA	16648
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Claysburg-Kimmel Hs 531 Bedford St Claysburg PA 16625  Central Hs 718 Central High Road Martinsburg PA 16662  Central Pa Digital Lrng 721 N. Juniata St. Suite 3 Hollidaysburg PA 16648  Foundation Cs  Penn-Lincoln El Sch 411 12th St Altoona PA 16602  Williamsburg Community El Sch 16 Sage Hill Dr Williamsburg PA 16693	Baker El Sch	108 W Ward Ave	Altoona	PA	16602
Central Hs 718 Central High Road Martinsburg PA 16662  Central Pa Digital Lrng 721 N. Juniata St. Suite 3 Hollidaysburg PA 16648  Foundation Cs  Penn-Lincoln El Sch 411 12th St Altoona PA 16602  Williamsburg Community El Sch 16 Sage Hill Dr Williamsburg PA 16693	Hollidaysburg Area Jhs	1000 Hewit St	Hollidaysburg	PA	16648
Central Pa Digital Lrng 721 N. Juniata St. Suite 3 Hollidaysburg PA 16648 Foundation Cs Penn-Lincoln El Sch 411 12th St Altoona PA 16602 Williamsburg Community El Sch 16 Sage Hill Dr Williamsburg PA 16693	Claysburg-Kimmel Hs	531 Bedford St	Claysburg	PA	16625
Foundation CsImage: Company of the compan	Central Hs	718 Central High Road	Martinsburg	PA	16662
Penn-Lincoln El Sch411 12th StAltoonaPA16602Williamsburg Community El Sch16 Sage Hill DrWilliamsburgPA16693		721 N. Juniata St. Suite 3	Hollidaysburg	PA	16648
Williamsburg Community El Sch 16 Sage Hill Dr Williamsburg PA 16693		411 12th St	Altoona	PA	16602
				<u> </u>	
	Adelphoi Education At Altoona	600s. Jaggard St.	Altoona		16602

Lighthouse Christian School	4200 Broad Ave	Altoona	PA	16601
Lone Pine School	133 Lone Pine Ln	Tyrone	PA	16686
Bishop Guilfoyle Catholic High School	2400 Pleasant Valley Blvd	Altoona	PA	16602
Blair County Christian School	925 Blacks Lane	Duncansville	PA	16635
Great Commission Schools	1100 6th Ave	Altoona	PA	16602
Harbor House Center Early Academics	113 Byron Ave	Altoona	PA	16602
Hollidaysburg Catholic School	321 Spruce St	Hollidaysburg	PA	16648
Penn Montessorri Academy	131 Holliday Hills Dr	Hollidaysburg	PA	16648
Shady Pond School	560 Golf Course Rd	Altoona	PA	16601
St Matthew Elementary School	1105 Cameron Ave	Tyrone	PA	16686
St Patrick School	731 Patrick Ln	Newry	PA	16665
St Rose Of Lima School	5519 6th Ave	Altoona	PA	16602
Tender Love For Children Child	1401 12th Ave 1st Lutheran	Altoona	PA	16601
Care	Ch			
Faith Tabernacle School	439 5th Ave	Altoona	PA	16602
White Oak School	5791 Kettle Rd	Tyrone	PA	16686
St John The Evangelist School	311 Lotz Ave	Altoona	PA	16602
Altoona Central Catholic School	1400 4th Ave	Altoona	PA	16602
Living Water Christian Academy	1960 William Penn Hwy	Williamsburg	PA	16693
Northwestern Human Services Autism School	1012 8th Ave	Altoona	PA	16602
Piney Creek Parochial School	982 Piney Creek Rd	Martinsburg	PA	16662
Cove Lane Parochial School	1769 Cove Lane Rd	Martinsburg	PA	16662
Emmanuel Baptist Christian School	480 Emmanuel Dr	Claysburg	PA	16625
Greater Altoona Career & Technology Center	1500 Fourth Avenue	Altoona	PA	16602
Altoona Beauty School Inc	1528 Valley View Blvd.	Altoona	PA	16602
The Salon Professional Academy- Altoona	415 D Orchard Avenue	Altoona	PA	16601
Pennsylvania State University- Penn State Altoona	3000 Ivyside Park	Altoona	PA	16601
Yti Career Institute-Altoona	2900 Fairway Dr	Altoona	PA	16602
Yellow Springs Mennonite School	2474 William Penn Highway	Williamsburg	PA	16693

# - APPENDIX F – HAZUS METHODOLOGY AND RESULTS REPORT



## Hazus: Flood Global Risk Report

**Region Name:** Blair\_County

Flood Scenario: 100yr

Thursday, August 01, 2019 **Print Date:** 

### Disclaimer:

This version of Hazus utilizes 2010 Census Data. Totals only reflect data for those census tracts/blocks included in the user's study region.

The estimates of social and economic impacts contained in this report were produced using Hazus loss estimation methodology software which is based on current scientific and engineering knowledge. There are uncertainties inherent in any loss estimation technique. Therefore, there may be significant differences between the modeled results contained in this report and the actual social and economic losses following a specific Flood. These results can be improved by using enhanced inventory data and flood hazard Information.







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### General Description of the Region

Hazus is a regional multi-hazard loss estimation model that was developed by the Federal Emergency Management Agency (FEMA) and the National Institute of Building Sciences (NIBS). The primary purpose of Hazus is to provide a methodology and software application to develop multi-hazard losses at a regional scale. These loss estimates would be used primarily by local, state and regional officials to plan and stimulate efforts to reduce risks from multi-hazards and to prepare for emergency response and recovery.

The flood loss estimates provided in this report were based on a region that included 1 county(ies) from the following state(s):

- Pennsylvania

### Note

Appendix A contains a complete listing of the counties contained in the region .

The geographical size of the region is approximately 527 square miles and contains 5,654 census blocks. The region contains over 52 thousand households and has a total population of 127,089 people (2010 Census Bureau data). The distribution of population by State and County for the study region is provided in Appendix B.

There are an estimated 53,225 buildings in the region with a total building replacement value (excluding contents) of 13,407 million dollars. Approximately 91.92% of the buildings (and 72.14% of the building value) are associated with residential housing.





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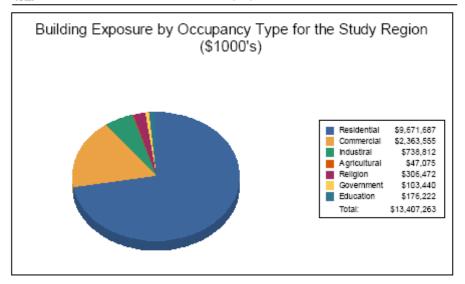
### **Building Inventory**

### General Building Stock

Hazus estimates that there are 53,225 buildings in the region which have an aggregate total replacement value of 13,407 million dollars. Table 1 and Table 2 present the relative distribution of the value with respect to the general occupancies by Study Region and Scenario respectively. Appendix B provides a general distribution of the building value by State and County.

Table 1
Building Exposure by Occupancy Type for the Study Region

Occupancy	Exposure (\$1000)	Percent of Total
Residential	9,671,687	72.1%
Commercial	2,363,555	17.6%
Industrial	738,812	5.5%
Agricultural	47.075	0.4%
Religion	306,472	2.3%
Government	103,440	0.8%
Education	176,222	1.3%
Total	13,407,263	100%





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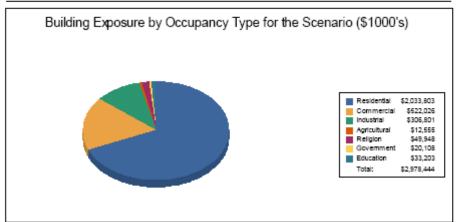
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Table 2 Building Exposure by Occupancy Type for the Scenario

Occupancy	Exposure (\$1000)	Percent of Total
Residential	2,033,803	68.3%
Commercial	522,026	17.5%
Industrial	306,801	10.3%
Agricultural	12,555	0.4%
Religion	49,948	1.7%
Government	20,108	0.7%
Education	33,203	1.1%
Total	2,978,444	100%



### **Essential Facility Inventory**

For essential facilities, there are 6 hospitals in the region with a total bed capacity of 598 beds. There are 60 schools, 28 fire stations, 16 police stations and 1 emergency operation center.





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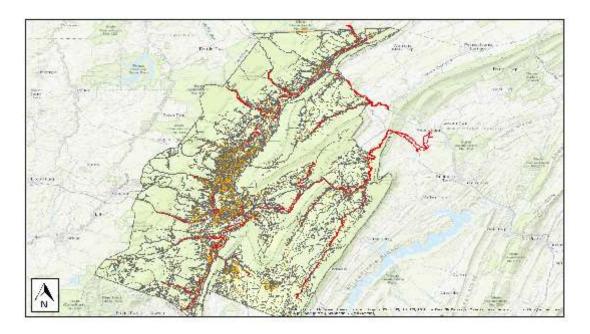
### Flood Scenario Parameters

Hazus used the following set of information to define the flood parameters for the flood loss estimate provided in this report.

Study Region Name: Blair\_County
Scenario Name: 100yr
Return Period Analyzed: 100
Analysis Options Analyzed: No What-Ifs

### Study Region Overview Map

Illustrating scenario flood extent, as well as exposed essential facilities and total exposure





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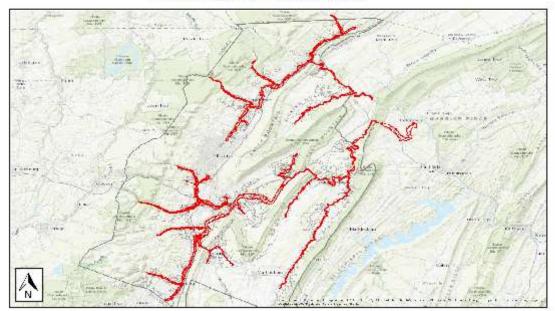


### **Building Damage**

### General Building Stock Damage

Hazus estimates that about 797 buildings will be at least moderately damaged. This is over 83% of the total number of buildings in the scenario. There are an estimated 25 buildings that will be completely destroyed. The definition of the 'damage states' is provided in the Hazus Flood Technical Manual. Table 3 below summarizes the expected damage by general occupancy for the buildings in the region. Table 4 summarizes the expected damage by general building type.

### Total Economic Loss (1 dot = \$300K) Overview Map





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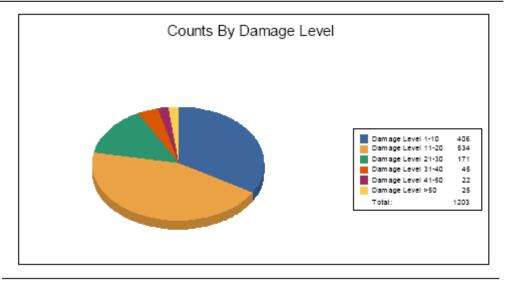
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Table 3: Expected Building Damage by Occupancy

	1-	-10	11	-20	21	-30	31	-40	41	-50	>5	0
Occupancy	Count	(%)										
Agriculture	0	0	0	0	0	0	0	0	0	0	0	0
Commercial	6	75	1	13	1	13	0	0	0	0	0	0
Education	0	0	0	0	0	0	0	0	0	0	0	0
Government	0	0	0	0	0	0	0	0	0	0	0	0
Industrial	4	67	2	33	0	0	0	0	0	0	0	0
Religion	0	0	0	0	0	0	0	0	0	0	0	0
Residential	396	33	531	45	170	14	45	4	22	2	25	2
Total	406		534		171		45		22		25	





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Table 4: Expected Building Damage by Building Type

Building	1-	-10	11-	20	21-	30	31-4	10	41-5	60	>50	)
Туре	Count	(%)	Count (	%)	Count	(%)						
Concrete	1	100	0	0	0	0	0	0	0	0	0	0
ManufHousing	2	67	0	0	0	0	0	0	0	0	1	33
Masonry	113	35	146	45	42	13	12	4	6	2	5	2
Steel	6	75	1	13	1	13	0	0	0	0	0	0
Wood	283	33	386	45	128	15	33	4	16	2	19	2





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### **Essential Facility Damage**

Before the flood analyzed in this scenario, the region had 598 hospital beds available for use. On the day of the scenario flood event, the model estimates that 598 hospital beds are available in the region.

Table 5: Expected Damage to Essential Facilities

### # Facilities

Classification	Total	At Least Moderate	At Least Substantial	Loss of Use
Emergency Operation Centers	1	0	0	0
Fire Stations	28	5	0	5
Hospitals	6	0	0	0
Police Stations	16	1	0	1
Schools	60	2	0	2

if this report displays all zeros or is blank, two possibilities can explain this.

- (1) None of your facilities were flooded. This can be checked by mapping the inventory data on the depth grid.
- (2) The analysis was not run. This can be tested by checking the run box on the Analysis Menu and seeing if a message box asks you to replace the existing results.





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### Induced Flood Damage

### Debris Generation

Hazus estimates the amount of debris that will be generated by the flood. The model breaks debris into three general categories: 1) Finishes (dry wall, insulation, etc.), 2) Structural (wood, brick, etc.) and 3) Foundations (concrete slab, concrete block, rebar, etc.). This distinction is made because of the different types of material handling equipment required to handle the debris.

Analysis has not been performed for this Scenario.





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### **Social Impact**

### Shelter Requirements

Analysis has not been performed for this Scenario.





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### Economic Loss

The total economic loss estimated for the flood is 594.01 million dollars, which represents 19.94 % of the total replacement value of the scenario buildings.

### **Building-Related Losses**

The building losses are broken into two categories: direct building losses and business interruption losses. The direct building losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability to operate a business because of the damage sustained during the flood. Business interruption losses also include the temporary living expenses for those people displaced from their homes because of the flood.

The total building-related losses were 312.51 million dollars. 47% of the estimated losses were related to the business interruption of the region. The residential occupancies made up 33.50% of the total loss. Table 6 below provides a summary of the losses associated with the building damage.





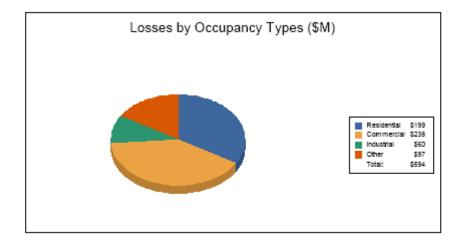
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Table 6: Building-Related Economic Loss Estimates (Millions of dollars)

Category	Area	Residential	Commercial	Industrial	Others	Total
Building Loss	<u>5</u>					
	Building	90.25	22.05	12.83	3.79	128.92
	Content	49.49	70.04	34.42	21.27	175.22
	Inventory	0.00	2.16	5.90	0.32	8.38
	Subtotal	139.74	94.26	63.16	25.37	312.61
Business Int	erruption					
	Income	2.16	51.29	1.97	8.16	63.58
	Reio cation	36.79	17.95	2.00	4.78	61.53
	Rental Income	15.23	12.84	0.46	0.68	29.22
	Wage	5.10	61.25	2.47	58.35	127.18
	Subtotal	69.28	143.34	6.90	71.98	281.60
ALL	Total	188.02	237.69	60.05	97.35	594.01





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### Appendix A: County Listing for the Region

Pennsylvania



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### Appendix B: Regional Population and Building Value Data

Buil	dina	Value	(thousan	ıds of	: dollar	51

	Population	Residential	Non-Residential	Total	
Pennsylvania	<b>7</b>				
Biair	127,089	9,671,687	3,735,576	13,407,263	
Total	127,089	9,671,687	3,735,576	13,407,263	
Total Study Region	127,089	9,671,687	3,735,57€	13,407,263	





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