Appendix A

Inventory of Assets

Jurisdiction: Pierce

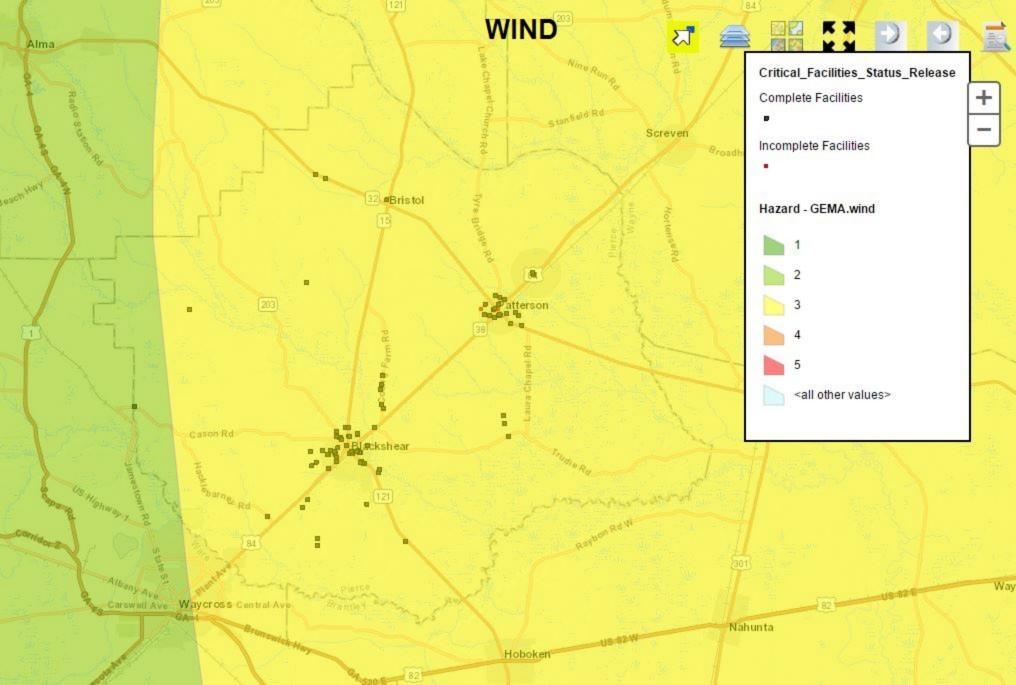
Hazard: Thunderstorms and Wind

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Struct	ures	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9.335			207,940,361	207,940,361	100.000%	18.935		
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%
Religious/ Non-									
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935	

Task B. Determine whether (and where) you want to collect additional inventory data.

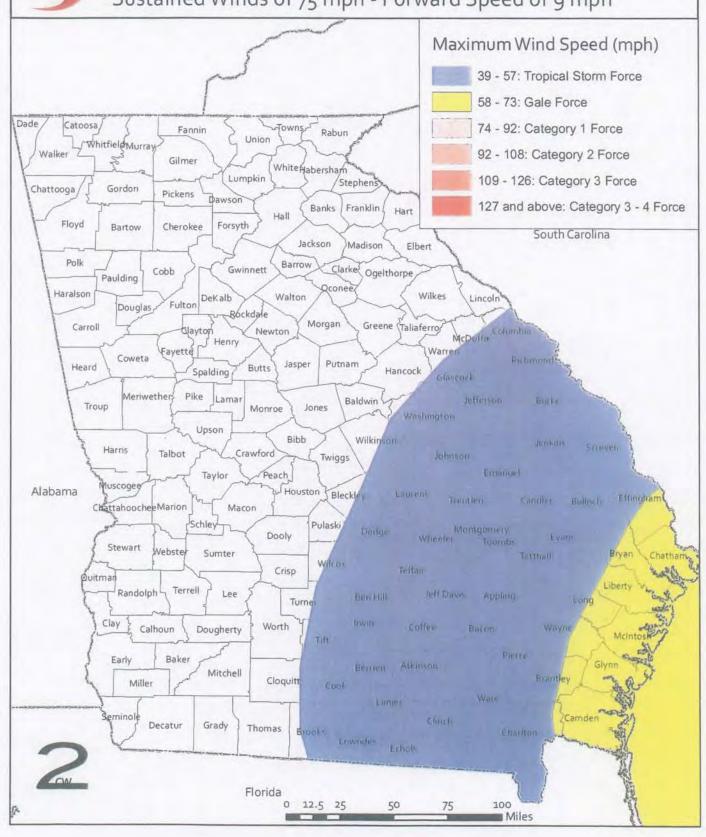
1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	





Maximum Envelope of Wind

Georgia Coast Landfall - Category 1 Hurricane Sustained Winds of 75 mph - Forward Speed of 9 mph



Inventory of Assets

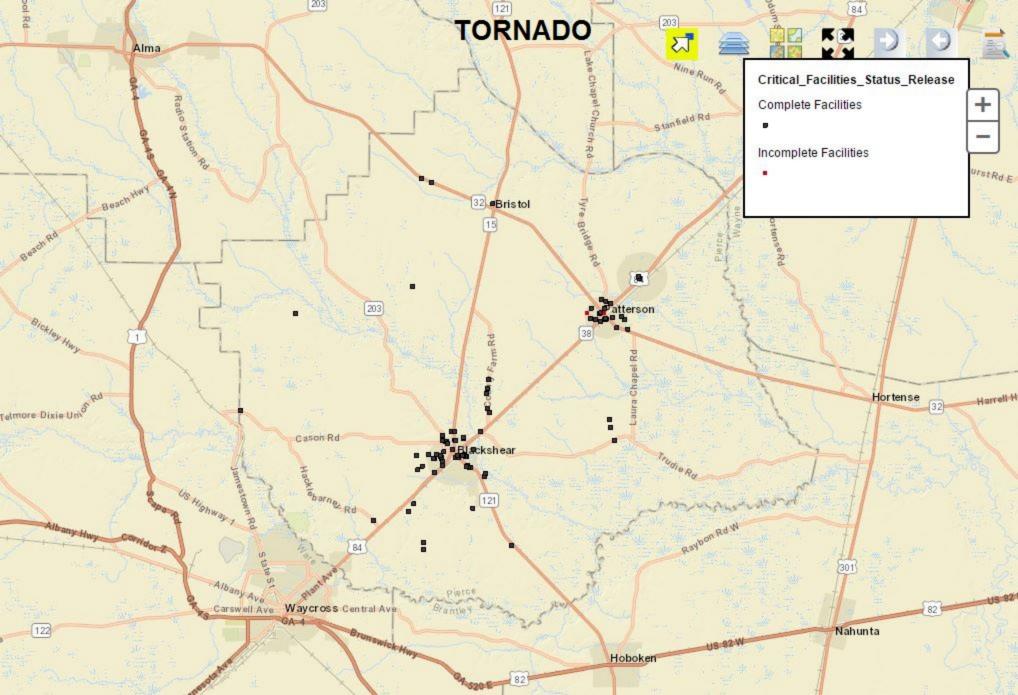
Jurisdiction: Pierce Hazard: Tornado

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

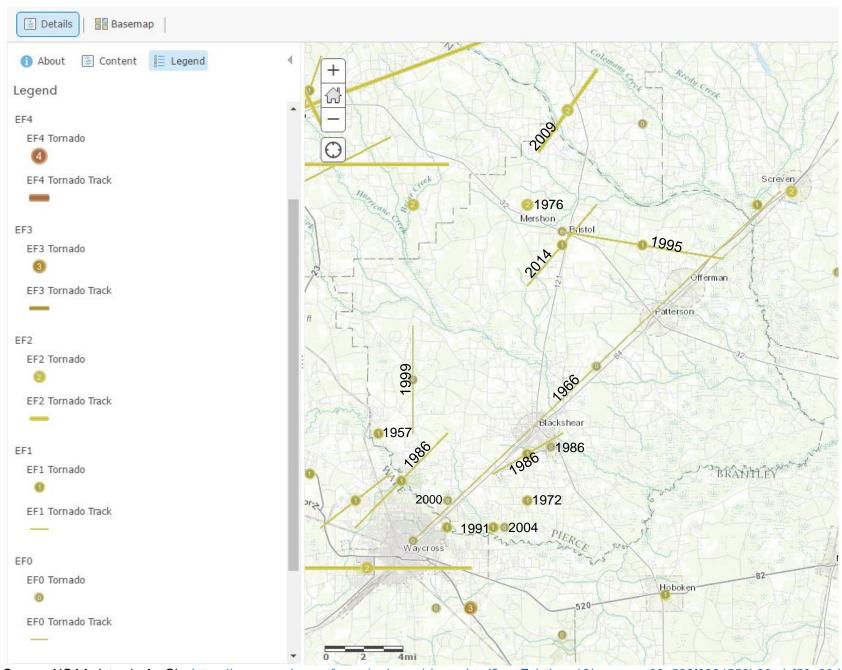
	Nu	umber of Struct	ures		Value of Structures		1	Number of People		
Type of Structure	# in						# in			
(Occupancy	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community	# in Hazard	% in Hazard	
Class)	of State	Area	Area	State	\$ in Hazard Area	Area	or State	Area	Area	
Residential	9,335	9,335	100.000%	207,940,361	207,940,361	100.000%	18,935	18,935	100.000%	
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%	
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%	
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%	
Religious/ Non-										
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%	
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%	
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%	
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%	
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935		

Task B. Determine whether (and where) you want to collect additional inventory data.

1. Do you know where the greatest damages may occur in your area?	Y Y	N
	Y	
2. Do you know whether your critical facilities will be operational after a hazard event?	ĭ	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



ArcGIS ▼ Tornado Tracks (NOAA)



Source: NOAA data via ArcGis; https://www.arcgis.com/home/webmap/viewer.html?useExisting=1&layers=ae96a522f2824552b20cdcf53a30d3c1

Inventory of Assets

Jurisdiction: Pierce

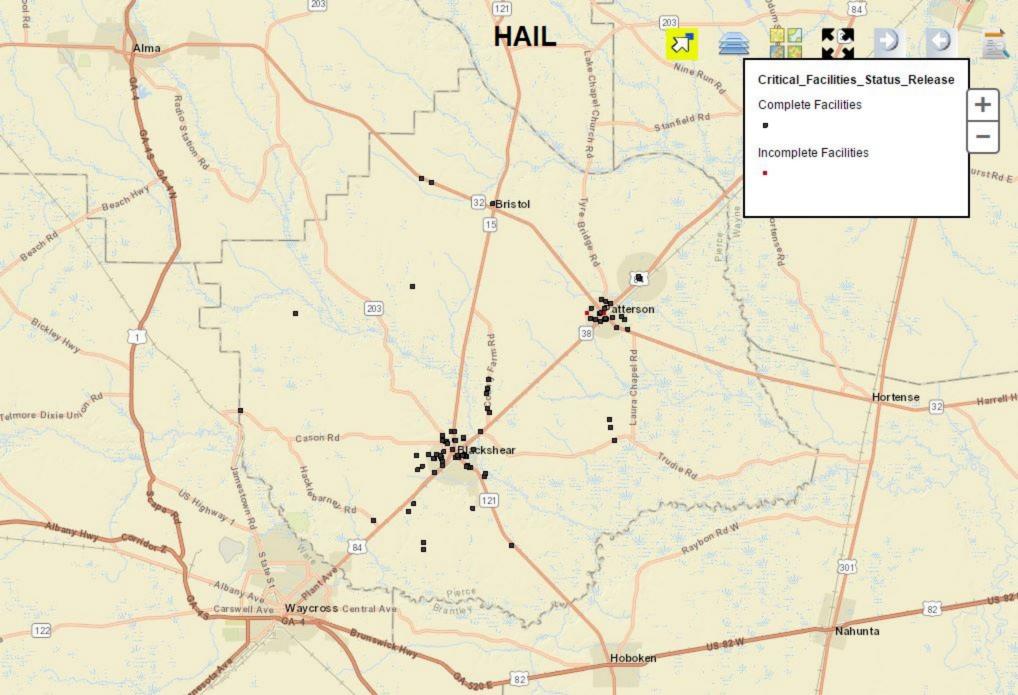
Hazard: Hail

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Struct	ures	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9.335			207,940,361	207,940,361	100.000%	18.935		
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%
Religious/ Non-									
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935	

Task B. Determine whether (and where) you want to collect additional inventory data.

1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



Inventory of Assets

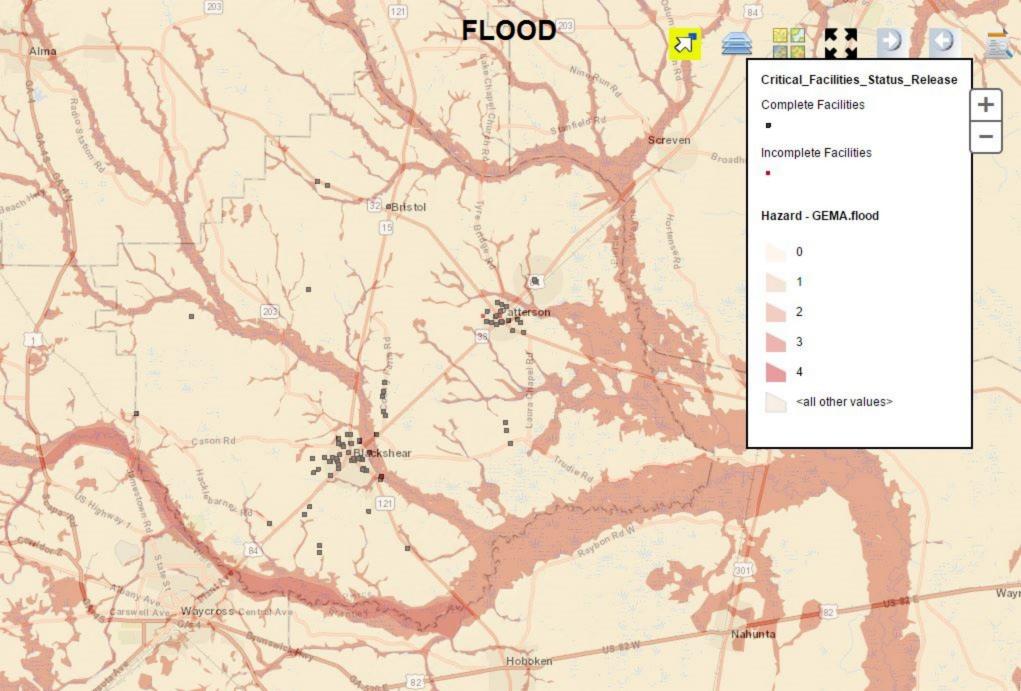
Jurisdiction: Pierce Hazard: Flood

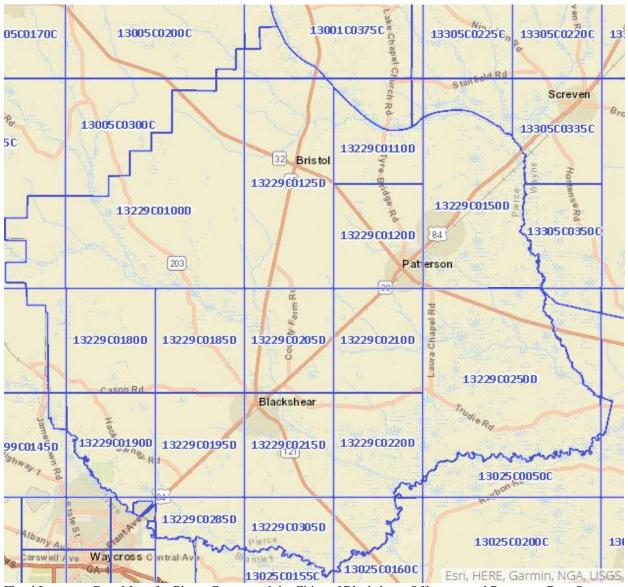
Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Nu	umber of Struct	ures	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9,335	465	4.981%	207,940,361	10,358,036	4.981%	18,935	943	4.981%
Commercial	451	7	1.552%	43,241,481	671,154	1.552%	0	0	0%
Industrial	28	1	3.571%	14,184,654	506,595	3.571%	0	0	0%
Agricultural	1,820	330	18.132%	96,022,096	17,410,600	18.132%	0	0	0%
Religious/ Non- profit	156	2	1.282%	34,496,268	442.260	1.282%	0	0	0%
Government	103	4	3.883%	53,165,359	2,064,674	3.883%	0	0	0%
Education	9	0	0.000%	6,594,648	0	0.000%	0	0	0%
Utilities	9	0	0.000%	35,426,279	0	0.000%	0	0	0%
Total	11,911	809		491,071,146	31,453,319		18,935	943	

Task B. Determine whether (and where) you want to collect additional inventory data.

1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard even	ent? Y	
3. Is there enough data to determine which assets are subject to the greatest potentia damages?	ıl Y	
4. Is there enough data to determine whether significant elements of the community vulnerable to potential hazards?	are Y	
5. Is there enough data to determine whether certain areas of historic, environmental political, or cultural significance are vulnerable to potential hazards?	l, Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, of likelihood of occurrence?	or N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	or N	





Flood Insurance Rate Maps for Pierce County and the Cities of Blackshear, Offerman, and Patterson. Data Source: FEMA website, msc.fema.gov.

Inventory of Assets

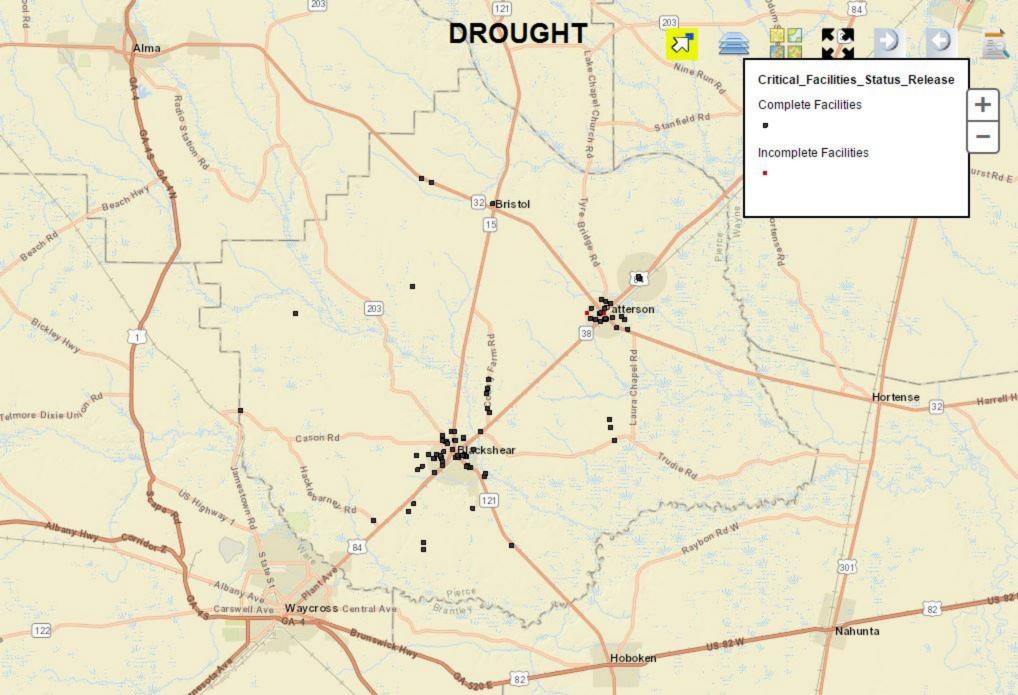
Jurisdiction: Pierce Hazard: Drought

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	Nu	umber of Struct	ures		Value of Structures		1	Number of People		
Type of Structure	# in						# in			
(Occupancy	Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	Community	# in Hazard	% in Hazard	
Class)	of State	Area	Area	State	\$ in Hazard Area	Area	or State	Area	Area	
Residential	9,335	9,335	100.000%	207,940,361	207,940,361	100.000%	18,935	18,935	100.000%	
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%	
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%	
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%	
Religious/ Non-										
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%	
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%	
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%	
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%	
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935		

Task B. Determine whether (and where) you want to collect additional inventory data.

1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



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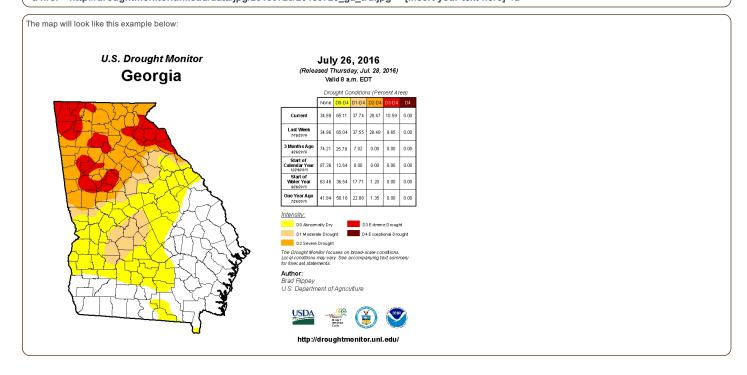
http://droughtmonitor.unl.edu/data/jpg/20160726/20160726_ga_trd.jpg

HTML Code

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Copy the following code into the HTML code of your page to link to this map.

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Inventory of Assets

Jurisdiction: Pierce

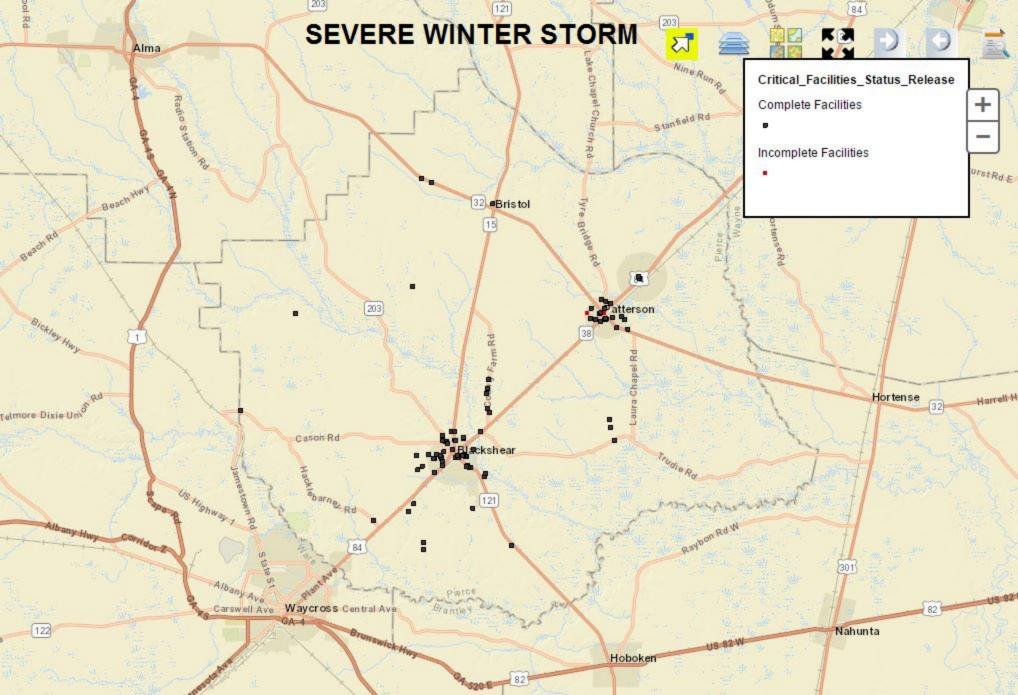
Hazard: Severe Winter Storm

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Struct	ures	Value of Structures			Number of People		
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9.335			207,940,361	207,940,361	100.000%	18.935		
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%
Religious/ Non-									
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935	

Task B. Determine whether (and where) you want to collect additional inventory data.

1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



Inventory of Assets

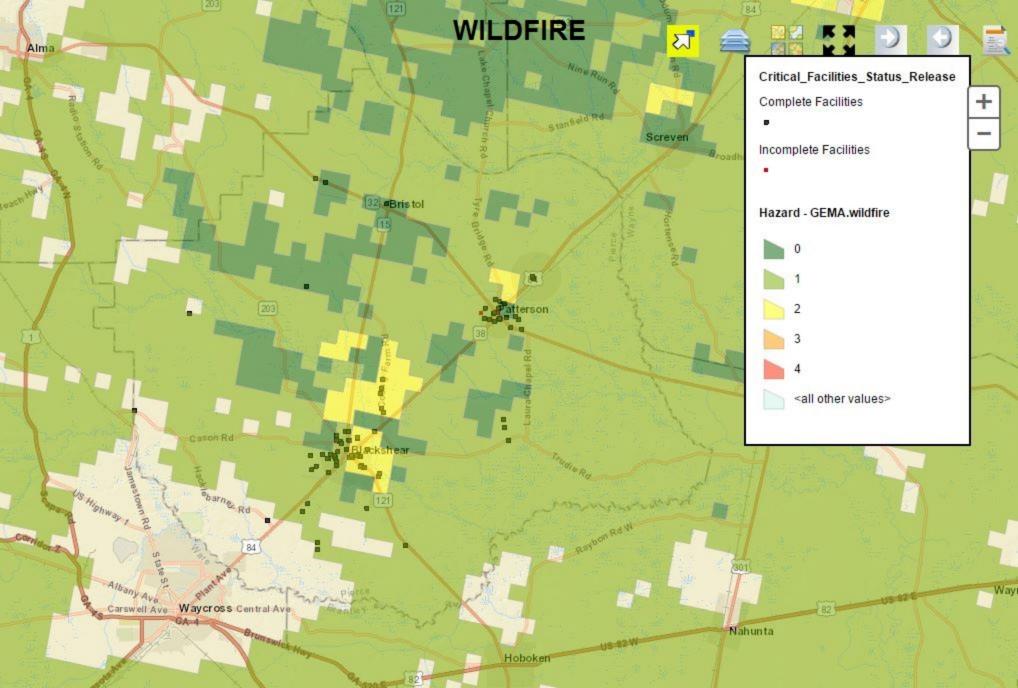
Jurisdiction: Pierce Hazard: Wildfire

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Struct	ures		Value of Structures		1	Number of Peop	e
Type of Structure (Occupancy	# in Community	# in Hazard	% in Hazard	\$ in Community or		% in Hazard	# in Community	# in Hazard	% in Hazard
Class)	of State	Area	Area	State	\$ in Hazard Area	Area	or State	Area	Area
Residential	9,335	8,308	89.000%	207,940,361	185,066,921	89.000%	18,935	16,852	89.000%
Commercial	451	401	89.000%	43,241,481	38,484,918	89.000%	0	0	0%
Industrial	28	25	89.000%	14,184,654	12,624,342	89.000%	0	0	0%
Agricultural	1,820	1,620	89.000%	96,022,096	85,459,665	89.000%	0	0	0%
Religious/ Non-									
profit	156	139	89.000%	34,496,268	30,701,679	89.000%	0	0	0%
Government	103	92	89.000%	53,165,359	47,317,170	89.000%	0	0	0%
Education	9	8	89.000%	6,594,648	5,869,237	89.000%	0	0	0%
Utilities	9	8	89.000%	35,426,279	31,529,388	89.000%	0	0	0%
Total	11,911	10,601		491,071,146	437,053,320		18,935	16,852	

Task B. Determine whether (and where) you want to collect additional inventory data.

	Y	N
1. Do you know where the greatest damages may occur in your area?	Y	
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



Inventory of Assets

Jurisdiction: Pierce

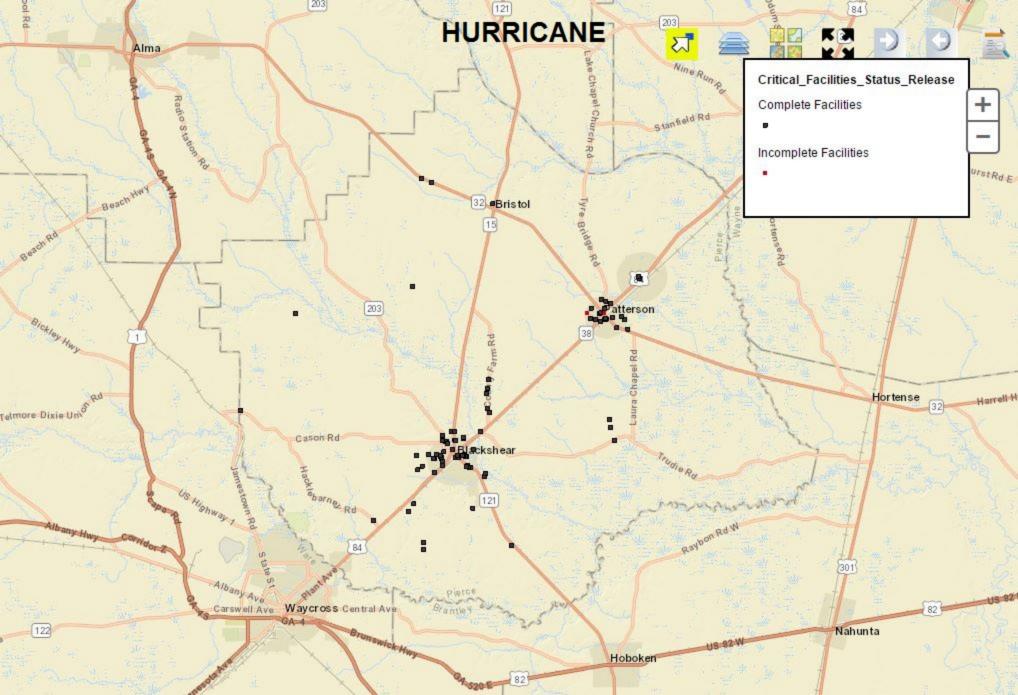
Hazard: Hurricane/Tropical Storm

Task A. Determine the proportion of buildings, the value of buildings, and the population in your community or state that are located in hazard areas.

	N	umber of Struct	ures		Value of Structures		1	Number of Peop	e
Type of Structure (Occupancy Class)	# in Community of State	# in Hazard Area	% in Hazard Area	\$ in Community or State	\$ in Hazard Area	% in Hazard Area	# in Community or State	# in Hazard Area	% in Hazard Area
Residential	9.335			207,940,361	207,940,361	100.000%	18.935		
Commercial	451	451	100.000%	43,241,481	43,241,481	100.000%	0	0	0%
Industrial	28	28	100.000%	14,184,654	14,184,654	100.000%	0	0	0%
Agricultural	1,820	1,820	100.000%	96,022,096	96,022,096	100.000%	0	0	0%
Religious/ Non-									
profit	156	156	100.000%	34,496,268	34,496,268	100.000%	0	0	0%
Government	103	103	100.000%	53,165,359	53,165,359	100.000%	0	0	0%
Education	9	9	100.000%	6,594,648	6,594,648	100.000%	0	0	0%
Utilities	9	9	100.000%	35,426,279	35,426,279	100.000%	0	0	0%
Total	11,911	11,911		491,071,146	491,071,146		18,935	18,935	

Task B. Determine whether (and where) you want to collect additional inventory data.

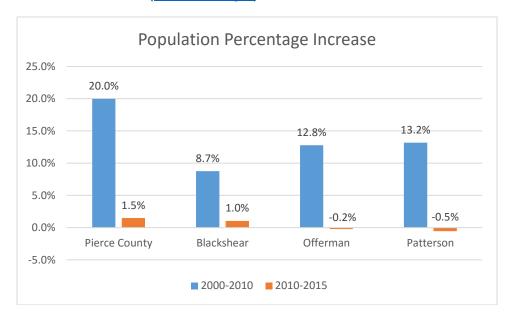
1. Do you know where the greatest damages may occur in your area?	Y Y	N
2. Do you know whether your critical facilities will be operational after a hazard event?	Y	
3. Is there enough data to determine which assets are subject to the greatest potential damages?	Y	
4. Is there enough data to determine whether significant elements of the community are vulnerable to potential hazards?	Y	
5. Is there enough data to determine whether certain areas of historic, environmental, political, or cultural significance are vulnerable to potential hazards?	Y	
6. Is there concern about a particular hazard because of its severity, repetitiveness, or likelihood of occurrence?	N	
7. Is additional data needed to justify the expenditure of community or state funds for mitigation initiatives?	N	



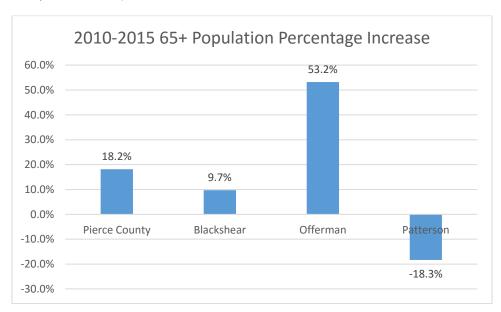
Appendix B

3. Analysis of Data and Information

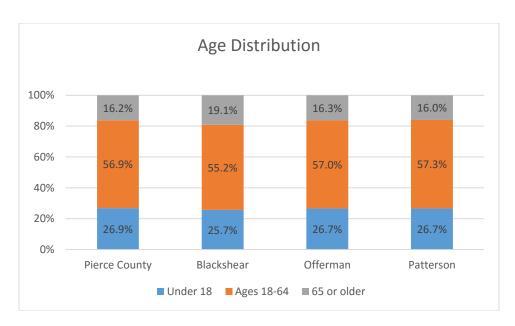
Data source: U.S. Census Bureau (www.census.gov)



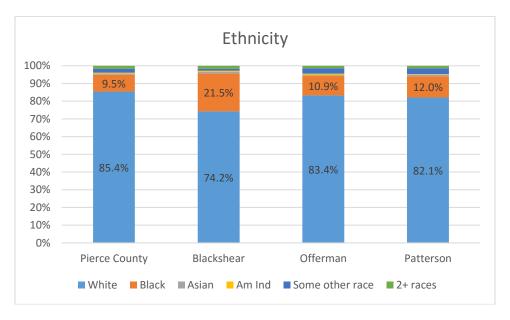
The 2015 population of Pierce County (the most recent figure currently available) is estimated at 18,934, a 1.5% increase since 2010. The 2015 population of Blackshear is estimated at 3,522, a 1.0% increase since 2010. The 2015 population of Offerman is 433, a decrease of 0.2% since 2010. The 2015 population of Patterson is 720, a 0.5% decrease since 2010. All jurisdictions gained population from 2000 to 2010 (20.0% for Pierce County, 8.7% for the City of Blackshear, 12.8% for the City of Offerman, and 13.2% for the City of Patterson).



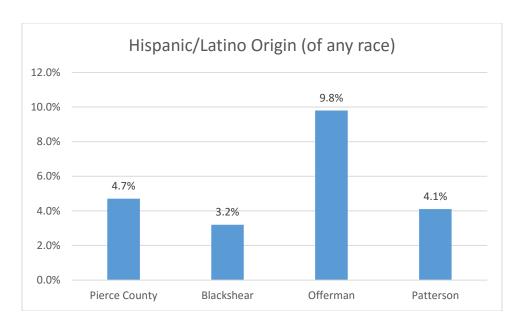
The percentage of the population aged 65 and older has increased in Pierce County and the City of Blackshear (18.2% and 9.7% respectively), has increased greatly (53.2%) in the City of Offerman, and has decreased by 18.3% in the City of Patterson.



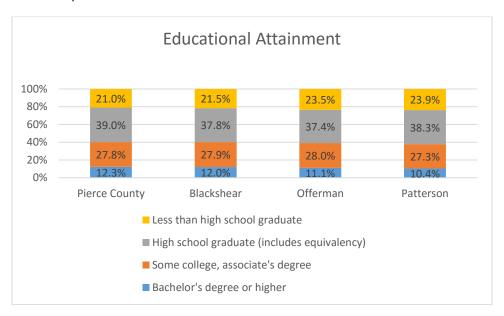
According to 2015 estimates, the age distribution in Pierce County is 16.2% over 65, 56.9% ages 20-64, and 26.9% under 20. In the City of Blackshear, the age distribution is 19.1% over 65, 55.2% ages 20-64, and 25.7% under 20. In the City of Offerman, the age distribution is 16.3% over 65, 57% ages 20-64, and 26.7% under 20. In the City of Patterson, the age distribution is 16.0% over 65, 57.3% ages 20-64, and 26.7% under 20.



The population of Pierce County is 85.4% White/Caucasian, 9.5% Black/African American, 2.3% some other race, 1.6% two or more races, 0.7% Asian, and 0.5% Native American. The City of Blackshear's population is 74.2% White/Caucasian, 21.5% Black/African American, 1.6% some other race, 1.2% two or more races, 0.9% Asian, and 0.6% Native American. The City of Offerman's population is 83.4% White/Caucasian, 10.9% Black/African American, 3.0% some other race, 1.4% two or more races, and 0.9% Native American. The City of Patterson's population is 82.1% White/Caucasian, 12.0% Black/African American, 3.2% some other race, 1.5% two or more races, 0.8% Asian, and 0.4% Native American.



Pierce County's population is 4.7% Hispanic/Latino, the City of Blackshear's population is 3.2% Hispanic/Latino, the City of Offerman's population is 9.8% Hispanic/Latino, and the City of Patterson's population is 4.1% Hispanic/Latino.



Among persons aged 25 or older, in Pierce County, 21.0% have no high school diploma, 39.0% are high school graduates (includes equivalency) with no further education, 27.8% have an associate's degree or some college, and 12.3% have a bachelor's or higher degree. Among persons aged 25 or older in the City of Blackshear, 21.5% have no high school diploma, 37.8% are high school graduates (includes equivalency) with no further education, 27.9% have an associate's degree or some college, and 12.0% have a bachelor's or higher degree. Among persons aged 25 or older in the City of Offerman, 23.5% have no high school diploma, 37.4% are high school graduates (includes equivalency) with no further education, 28.0% have an associate's degree or some college, and 11.1% have a bachelor's or higher degree. Among persons aged 25 or older in the City of Patterson, 23.9% have no high school diploma, 38.3% are high school graduates (includes equivalency) with no further education, 27.3% have an associate's degree or some college, and 10.4% have a bachelor's or higher degree.

<u>Pierce County 5-Year Community Work Program Update</u> (2018-2022)

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
ECONOMIC DEVELOPMENT		-		-					
Develop programs to market the area and promote economic development in cooperation with the IDBA and Chamber of Commerce.	\$200,000	Local	County/Cities/IDBA and Chamber of Commerce	1	х	x	х	х	x
Conduct County-wide recruiting efforts to attract appropriate employers.	Staff time	Local	County/Cities/IDBA and Chamber of Commerce	1	х	х	х	х	х
Conduct business analysis of the local economy composition and industry contribution of the Cities and the County.	Staff time	Local	County/Cities/IDBA and Chamber of Commerce	1	х	х			
Conduct a program that promotes the County's Work Ready status to all potential new businesses and industries.	\$2,500 and staff time	Local	County/Cities/IDBA and Chamber of Commerce	1	х	х			
Conduct and support cultural activities and festivals in the Cities and County.	\$75,000	Local	County and Cities	1	х	х	х	х	х
HOUSING					-				
Participate in the state's Georgia Initiative for Community Housing (GICH) program.	\$5,000	Local and DCA	County and Cities	2	х	х	х	х	х
Update ordinances and codes to protect against insufficient and poor quality housing.	Staff time	Local	County	2	х	х	x	x	х
NATURAL RESOURCES									
Identify appropriate areas and funding sources for fee simple acquisition of environmentally sensitive lands.	\$5,000	Local	County and Cities	3	х	х			
Evaluate ways to prioritize areas for additional greenspace acquisition/design.	Staff time	Local	County and Cities	3	х	х	х		
CULTURAL RESOURCES									
Establish an Historic District and create a Historic Resources Commission.	Staff time	Local and RC	County and Cities	4	х	х			

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
Establish historic resources protection ordinances within the County.	\$3,500	Local	County	4	х	х	х		
Develop confederate prison war sites within Pierce County as local historical tourist areas.	Staff time	Grants	County	4	х	х	х	х	х
COMMUNITY FACILITIES & SERVICES		-		-					
Evaluate the feasibility of adopting capital improvement programs in each community.	Staff time	Local	County and Cities	5	х	х	х		
Evaluate financing methods for new infrastructure.	\$2,000	Local	County and Cities	5	х	х	х	х	
Remodel vacant public buildings for community centers and public recreational use, as feasible.	\$1 million	Local, CDBG, DNR, other grants	County and Cities	5	х	х	х	х	х
Implement improved recreational programs and facilities within the County.	\$2.5 million	Local, State, Federal, Grants, DCA, Local Development Funds (LDF)	County and Cities	5	х	х	х	х	х
Implement public infrastructure projects that improve drainage and transportation systems, including maintaining and rehabilitating drainage canals in the County and all Cities.	\$6 million	Local, GDOT, CDBG, other grants	County and Cities	5	х	х	х	х	х
Update the Blackshear/Pierce County/Patterson Volunteer Fire Department Master Plans, and conduct an ISO study.	\$20,000	Local	County and Cities	5		х	x	х	х
Upgrade fire equipment in the Pierce County, Blackshear, Patterson and Offerman Volunteer Fire Department, as needed.	\$1,000,000	Local/State/Federal	County and Cities	5	x	х	x	х	х
Explore areas where impact fee requirements would expedite infrastructure improvements.	Staff time	Local	County and Cities	5	х	х	х	х	х
Construct new jail with 200-225 person capacity	\$14 million	Local/State/Federal/Grants	County	5		х	х	х	х

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
Centralize all recreational fields and facilities to maximize efficiency and convenience for all residents.	\$2.5 million	Local/DNR/CDBG	County and Cities	5	х	х	х	х	х
Renovate vacant existing schools for reuse.	\$19 million	Local	BOE	5	х	х	х	х	х
TRANSPORTATION									
Conduct traffic studies for new development in known congested areas.	\$10,000 per intersection	Local, GDOT	County and Cities	5, 6	х	х	х	х	х
Work with GA DOT and others in developing a corridor congestion management plan.	\$25,000	Local, GDOT	County and Blackshear	5, 6		х	х	х	
Organize a system for upgrading and modifying road design in order to increase public safety.	Staff time	Local	County and Cities	5, 6	х	х	х	х	х
Implement measures to improve traffic flow design and operations, specifically in congested areas.	\$5 million	Local, GDOT, Grants	County and Cities	5, 6	х	х	х	x	х
Promote the existing rural transit system and seek additional funds in order to operate the system 7 days per week.	\$5,000	Local	County and Cities	5, 6	х	х	х	x	х
Pave 75 miles of dirt roads	\$22.5 million	Local, State, Federal	County and Cities	5, 6	Х	Х	Х	Х	х
Work with the DOT to establish a school zone at County Farm Road and Highway 84.	\$5,000	GDOT	County and BOE	5, 6	x	х	х	x	х
Develop strong pedestrian/bicycle connections to encourage residents to walk/bike to work, shop, and other designations in the community.	\$60,000	Local, GDOT, Grants	County and Cities	5, 6	х	х	х	х	x
LAND USE									
Adopt large-lot zoning (minimum 10-acre lots) to preserve the economic function of agriculture, livestock and forestry in Pierce County.	Staff time	Local	County	8	х	х			

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
Evaluate the benefits and costs of employing a conservation subdivision ordinance consistent with policy.	Staff time	Local	County and Cities	3, 8	х	х			
Adopt regulations allowing limited land splits for heirs.	Staff time	Local	County	8	х	х	х		
Update existing zoning ordinances and maps that will be administered through the Joint Planning Commission.	\$50,000	Local	County and Cities	8	х	х			
Adopt ordinances to protect environmentally sensitive areas.	Staff time	Local	County and Cities	8	х	х	х	х	х
Access and review successful land planning and development concepts from other communities.	\$3,000	Local	County and Cities	8	х	х	х	х	х
Update the public on new zoning laws and ordinances through Public Awareness measures.	\$5,000	Local	County and Cities	8	х	х	х	х	х
Adopt a "right to farm" ordinance.	\$5,000	Local	County	8	Х				
Develop ordinances that will encourage infill and cluster development.	\$7,500	Local	County	8	х	х	х	х	х
Evaluate the benefits and costs of prohibiting junkyards and equipment storage in areas that would be visible from the highway.	Staff time	Local	County	8	x	x	х		
Evaluate the benefits and costs of developing ordinances to guide the placement of mobile home parks and single family manufactured homes in the County and Cities.	Staff time	Local	County	2, 8	х	х	х	х	x
Develop and adopt a rights-of-way ordinance for future development, including commercial, industrial and residential.	\$12,500	Local/DOT	County and Cities	8	x	х	x	х	х
Extend Money Hole Rd to Hwy 121	\$10 million	Local/GDOT	County	8		Х	Х	Х	Х
INTERGOVERNMENTAL COORDINATIO	N								
(none identified)									

<u>City of Blackshear 5-Year Community Work Program Update</u> (2018-2022)

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
ECONOMIC DEVELOPMENT					_				
Conduct a program to recruit local and outside entrepreneurs to expand or locate in downtown Blackshear.	Staff time	Local governments, grants	City of Blackshear, Main Street, Chamber of Commerce, IDBA	1	х	х	х	х	х
Establish an Enterprise Zone or Opportunity Zone within the City to encourage redevelopment and infill.	\$10,000	Local, RC	City of Blackshear	1	х	х	х		
HOUSING									
Establish a redevelopment strategy for identified declining areas in the City of Blackshear, and develop a Redevelopment Plan.	\$15,000	Local	City of Blackshear	2	x	х	x	х	х
Redevelop housing in declining areas that will facilitate the provision of affordable housing to low and moderate income families.	\$100,000	USDA/CHIP/CDBG	City of Blackshear	2	х	х	х	х	x
CULTURAL RESOURCES					-				
Nominate Downtown Blackshear for the National Register of Historic Places.	Staff time	Local and DDA	City of Blackshear	4	х				
COMMUNITY FACILITIES & SERVICES									
Evaluate current water distribution and sewage collection systems, determine and correct deficiencies (including new well/water tower), and maximize capacity for future growth areas.	\$5 million	Local, USDA, CDBG, other grants/loans	City of Blackshear	5	х	х	х	х	х
Construct public safety building	\$3 million	Local, grants, loans	City of Blackshear	5		Х	Х	Х	
Purchase police cars	\$150,000	Local, grants, loans	City of Blackshear	5	х		Х		Х
Renovate the old train depot	\$500,000	Local, grants	City of Blackshear	5		Х	Х	Х	
Purchase 25 acres for solid waste facility / yard debris disposal site	\$150,000	Local, grants	City of Blackshear	5	х	х	х	х	

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
Construct wastewater treatment plant	\$7 million	Local, USDA, CDBG, other grants/loans	City of Blackshear	5	х	х			
Install solar panels for wastewater treatment plant	\$2.5 million	Local, grants	City of Blackshear	5	х	х			
TRANSPORTATION									
Repave and resurface streets	\$150,000 per year	Local, LMIG	City of Blackshear	6	х	х	х	х	х
Repair sidewalks	\$500,000	Local, SPLOST	City of Blackshear	6	Х	Х	х	Х	х

City of Patterson 5-Year Community Work Program Update (2018-2022)

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
ECONOMIC DEVELOPMENT				-	-				
Conduct a program to recruit local and outside entrepreneurs to expand or locate in downtown Patterson.	Staff time	Local governments, grants	City of Patterson, Main Street, Chamber of Commerce, IDBA	1	х	х	х	х	х
Establish an Enterprise Zone or Opportunity Zone within the City to encourage redevelopment and infill.	\$10,000	Local, grants	City of Patterson	1	х	х	х		
Update website and create infrastructure to make Patterson a Camera-Ready Community.	Staff time	Local	City of Patterson	1	х	х			
Secure funding for economic development	\$1,000,000	Local, State, Federal, grants	City of Patterson	1	х	х	х	х	х
HOUSING									
Develop a redevelopment plan	\$5,000	Local, State, Federal, grants	City of Patterson	2		х	х	х	
Redevelop housing in declining areas that will facilitate the provision of affordable housing to low and moderate income families.	\$200,000	USDA/CHIP/CDBG	City of Patterson	2	х	х	х	х	х
CULTURAL RESOURCES		-		•					
Nominate Downtown Patterson for the National Register of Historic Places.	Staff time	Local and DDA	City of Patterson	4	x				
COMMUNITY FACILITIES & SERVICES									
Evaluate current water distribution and sewage collection systems, determine and correct deficiencies, and maximize capacity for future growth areas.	\$200,000	Local, State, Federal, grants	City of Patterson	5	х	x	х	х	х
Construct walking track/trail	\$200,000	Local, State, Federal, grants	City of Patterson	5		х	х	х	х
Construct playground	\$30,000	Local, grants	City of Patterson	5		Х			

PROJECTS	ESTIMATED COST	FUNDING SOURCE	RESPONSIBLE PARTY	GOAL	FY 18	FY 19	FY 20	FY 21	FY 22
Repair tennis courts	\$30,000	Local, grants	City of Patterson	5		х			
Renovate Downtown buildings	\$1,000,000	Local, State, Federal, grants	City of Patterson	5		х	х	х	х
Complete renovation of Eagle Station	\$330,000	Local, State, Federal, grants	City of Patterson	5	х				
Purchase 1 new fire truck	\$200,000	Local, State, Federal, grants	City of Patterson	5	х				
Purchase 1 new police car	\$50,000	Local, State, Federal, grants	City of Patterson	5	х				
TRANSPORTATION									
Install and/or repair sidewalks in needed places throughout the community.	\$200,000	Local, State, Federal, grants	City of Patterson	6	х	х	х	х	х
Repair and/or resurface approximately 3 miles of roads (including drainage improvements), including Industrial Blvd. and Tyre Bridge Road.	\$250,000	Local, State, Federal, grants	City of Patterson	6	х	х	х	х	х

CITY OF OFFERMAN COMPREHENSIVE PLAN 2017-2036

Five Year Short Term Work Program

The STWP identifies specific implementation actions the local government intends to take during the interim planning period. The plan should include any ordinances, administrative processes, community improvements or investments, financing arrangements, or other programs or initiatives to be put in place to implement the plan. The STWP includes the following information for each listed activity:

A brief description of the events:

- Timeframe for undertaking the activity
- Responsible party for implementing the activity
- Estimated cost (if any) of implementing the activity
- Funding source if applicable

CITY OF OFFERMAN COMPREHENSIVE PLAN 2017-2036

Short Term Work Program 2017-2021

HOUSING

Project Number/Policy	Annual Estimated Cost	Funding Source	Implementation Year	Responsibility
1. Policy 1.2.1 Provide funding for the building and code enforcement program.	\$1000	Administrative and user fees	2017-2021	City and user fees

ECONOMIC DEVELOPMENT

Project Number/Policy	Annual Estimated Cost	Funding Source	Implementation Year	Responsibility
2. Policy 1.7.1 Provide funding for programs that attract businesses that are compatible with our goals, natural resources, and unique geological features.	\$500	General Funds	2017-2021	City
3. Policy 1.7.1 Recruit new local businesses	\$100	General Funds	2017-2021	City

CITY OF OFFERMAN COMPREHENSIVE PLAN 2017-2036

COMMUNITY FACILITIES AND INFRASTRUCTURE

Project Number/Policy	Annual Estimated Cost	Funding Source	Implementation Year	Responsibility
4. Policy 1.5.1 Phase one: Collect funds for the constructing of a multipurpose building to provide educational services, senior center programs and after school programs. Also to be used as a public information center and for community events	\$100,000	General Funds, CDBG, and SPLOST	2017-2021	City
5. Policy 1.4.6 Purchase land for future capital projects	\$1,000	General Funds	2017-2021	City
6. Policy 1.5.1 Purchase recreational equipment for park	\$500	DNR and General Funds	2017-2021	City
7. Policy 2.1.5 Drainage and Street Improvements	\$25,000	General Funds, CDBG, and SPLOST	2017-2021	City
8. Policy Purchase equipment to help maintain streets and right-aways	\$5,000	General Funds	2017-2021	City
9. Policy 1.4.2 Purchase equipment for fire department	\$1,000	General Funds, Local assistance grants and Homeland Security Grants	2017-2021	City

CITY OF OFFERMAN COMPREHENSIVE PLAN 2017-2036

10. Policy 2.1.1	\$2,000	General Funds	2017-2021	City and
Develop pathways or sidewalks to maintain community connectively				Developers

NATURAL AND HISTORIC RESOURCES ELEMENT

Project Number/Activity	Annual Estimated Cost	Funding Source	Implementation Year	Responsibility
11. Policy 1.8.1	\$100	General Funds	2017-2021	City
Inventory structures that are at least 50 years of age to determine if they are of historical significant.				

LAND USE ELEMENT

Project Number/Activity	Annual Estimated Cost	Funding Source	Implementation Year	Responsibility
12. Policy 1.6.1 Develop a base map with the parcel and land use layers.	\$100	General Funds	2017-2021	City, volunteers, and staff
Require contractors to submit CADD and shapefiles when the project involves improvements on public property.	\$100	General Funds	2017-2021	City

CITY OF OFFERMAN COMPREHENSIVE PLAN 2017-2036

INTERGOVERNMENTAL COORDINATION

Project Number/Activity	Annual Estimated	Funding Source	Implementation Year	Responsibility
14. Policy 1.1.1 Purse intergovernmental cooperation when cost	Cost N/A	N/A	2017-2021	City
15. Policy 1.1.2 Promote the sharing of services.	N/A	N/A	2017-2021	City
16. Policy 1.1.3 Participate in committees, groups, and organizations promoting intergovernmental cooperation.	N/A	N/A	2017-2021	City

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GEORGIA DEPARTMENT OF REVENUE Local Government Services Division County Digest Section

2016 TAX DIGEST CONSOLIDATED SUMMARY

County:PIERCE County #:113 Tax District:PIERCE COUNTY

Dist #: 00 Assessment %: 040 Tot Parcels:12419

		ECT DENITE AL				7/	
		RESIDENTIAL			UTILIT		400/ 1/ 1
	Count		40% Value	Code	Count	Acres	40% Value
	19,738		174,638,465	U1			
R3	5,399	•	26,126,840	U2	38		20,960,870
R4	3,953	13,564.92	27,627,182	U3	1	1.14	0
R5	4	179.42	317,590	U4			
R6	8		10,237	U5			
R7				U7			
R9	1	0	4,297	U9			
RA	1		7,000	UA			
RB	1,257		1,616,917	UB			
RF				UF			
RI				UZ			
RZ					EXEMPT PRO	PERTY	
F	RESIDEN	TIAL TRANS	ITIONAL	Code	Count	40% Value	
Code	Count	Acres	40% Value	E0			
T1				E1	219	21,656,743	
Т3				E2	299	6,686,647	
T4				E3	14	554,460	
		HISTORIC		E4	22	144,123	
Code	Count	Acres	40% Value	E5			
Н1				E6	20	3,088,989	
Н3				E7			
	A	GRICULTURA	L	E8			
Code	Count	Acres	40% Value	E9	5	13,124,229	
A1	2,474		21,791,677				
А3	•			TOTAL	579	45,255,191	
A4	190	1,565.21	1,697,015	HOMESTE	AD AND PROP	ERTY EXEMPT	TONS
A5	544	•	20,019,657	Code	Count	M&O	Bond
A6	544	,	1,135,404	S1	2,674	5,344,949	
A7			,, -	sc	54	108,000	
Α9	1	0	38,304	S2	0	0	
AA	_		,	S3	115	228,232	
AB				S4	876	3,493,995	
AF	1		4,020	S5	42	1,571,761	
AI	_		7,020	SD	33		
AZ				SS	1	40,996	
74	D	REFERENTIA		SE	0	0	
Codo	Count		40% Value	SG	0	0	
coue	Count		40% value				

7/2017					Displa	ay Digest	
Р3				S6			
P4				S7			
P5				S8			
P6				S9			
P7				SF	17	18,508,649	
P9				SA	0	0	
	CONS	SERVATION	USE	SB	0	0	
Code	Count	Acres	40% Value	SP	1,375	1,018,705	
V3				SH	0	0	
V4	341	5,503.06	6,162,411	ST	0	0	
V5	1,138	125,347.58	75,152,160	SV	1,479	55,024,445	
V6	681		1,325,467	SJ	32	1,868,733	
	BROWI	NFIELD PROF	PERTY	sw	0	0	
Code	Count	Acres	40% Value	SX			
B1				SN	201	0	
В3				DO NOT US	E CODES L1-	L9 ON STATE	SHEET
B4				L1	1,733	0	
B5				L2	0	0	
В6				L3	103	0	
FOR	REST LAN	ID CONSERV	ATION USE	L4	824	0	
Code	Count	Acres	40% Value	L5			
J3				L6			
J4				L7			
J5	32	20,930.4	5,106,904	L8			
J9				L9	1,542	11,274,573	
	FLPA FA	IR MARKET	ASSMT	TOTAL	11 101	00 034 530	
Code	Count	Acres	40% Value	TOTAL	SUMMA	99,934,539	0
F3				Code	Count		40% Value
F4				Residential			
F5	32	20,930.4	5,773,815	Residential	30,361	19,334.94	230,348,528
F9				Transitional			
T-1-1	22	20.020.4	E 772 04 E	Historical			
Total	32	20,930.4 IENTALLY SE	5,773,815	Agricultural	3,754	39,992.08	44,686,077
	Count		40% Value	Preferential	,	,	, ,
W3	Count	Acres	40% value	Conservation			
W4				Use	2,160	130,850.64	82,640,038
W5				Brownfield			
***		OMMERCIAL		Property			
Code	Count	Acres	40% Value	Forest Land	32	20,930.4	5,106,904
C1	1,073	710105	24,545,075	Cons Use Environmentally			
C3	323	287.15	4,998,248	Sensitive			
C4	146	463.29	3,328,504	Commercial	2,395	952.68	52,401,967
C5	1	202.24	120,000	Industrial	248		44,006,772
C7			•	Utility	39		20,960,870
C9				Motor Vehicle	13,148		23,322,630
CA				Mobile Home	1,873		10,172,814
СВ	2		588	Timber 100%	194	13,684	9,748,365
CF	580		13,618,920	Heavy	0		
CI	270		5,790,632	Equipment	0		0
СР				Gross Digest	54,204	226,492.39	523,394,965
CZ				Exemptions			
	I	NDUSTRIAL		Bond			
Code	Count	Acres	40% Value	Net Bond Digest			523,394,965
I1	162		7,823,982	Gross Digest	54,204	226,492.39	523,394,965
13	7	21.39	63,025	Exemptions- M&O			99,934,539
14	20	168.91	533,040	Net M&O Digest			423,460,426
15	7	535.73	1,021,549	ido Digest			. 25, 100,720
ne-//anne	dor as an	v/diagetcone ol	idation/Display[Dinest asny			

4/7/2017				Display	/ Digest	
17				TAX LEVI	ED	
I9 IA			TYPE	ASSESSED VALUE	MILLAGE	TAX
IB			M & O	423,460,426	.000	0.00
IF	18	11,764,545	BOND	523,394,965	.000	0.00
II	17	4,291,982				
IP	17	18,508,649				
IZ						
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GEORGIA DEPARTMENT OF REVENUE Local Government Services Division County Digest Section

2016 TAX DIGEST CONSOLIDATED SUMMARY

County:PIERCE County #:113 Tax District:BLACKSHEAR

Dist #: 05 Assessment %: 040 Tot Parcels:3595

	Dist #: 05 Assessment %: 040 Tot Parceis:3595								
	RES	SIDENT	[AL		UTILI	TY			
Code	Count	Acres	40% Value	Code	Count	Acres	40% Value		
R1	2,624		34,119,036	U1					
R3	1,658	897.09	6,761,383	U2	9	1.62	2,644,907		
R4	26	141.97	332,839	U3					
R5	1	54.72	118,982	U4					
R6				U5					
R7				U7					
R9				U9					
RA				UA					
RB	154		140,154	UB					
RF				UF					
RI				UZ					
RZ					EXEMPT PR	OPERTY			
RES	IDENTI	AL TRAI	NSITIONAL	Code	Count	40% Value			
Code	Count	Acres	40% Value	EO					
T1				E1	118	4,870,804			
Т3				E2	113	4,203,056			
T4				E3	7	475,302			
	Н	ISTORI	С	E4	1	54,672			
Code	Count	Acres	40% Value	E5					
Н1				E6	11	2,615,191			
Н3				E7					
	AGR	ICULTU	RAL	E8					
Code	Count	Acres	40% Value	E9	2	56,343			
A1	3		7,702						
А3				TOTAL	252	12,275,368			
A4	1	1	2,085	HOMESTE	AD AND PROF	PERTY EXEMP	TIONS		
A5	1	25	13,831	Code	Count	M&O	Bond		
A6				S1	366	0			
A7				SC					
Α9				S2					
AA				S3					
AB				S4					
AF				S5	10	303,364			
ΑI				SD	12	563,256			
AZ				SS	0	0			
PREFERENTIAL				SE	0	0			
Code	Count	Acres	40% Value	SG	0	0			

7/2017						Display Dig	gest
Р3				S6			
Р4				S7			
Р5				S8			
Р6				S9			
P7				SF	7	2,691,123	
Р9				SA	0	0	
	CONSE	RVATIO	N USE	SB	0	0	
Code	Count	Acres	40% Value	SP	265	221,154	
V3				SH	0	0	
V4	1	18.38	38,318	ST	0	0	
V5	1	75.74	34,186	SV	2	50,057	
V6				SJ	0	0	
В	ROWNF	IELD PF	ROPERTY	SW	0	0	
Code	Count	Acres	40% Value	SX			
B1				SN	110	0	
В3					E CODES L1-	L9 ON STATE	SHEET
В4				L1			
B5				L2			
В6				L3			
FOR	EST LAN		SERVATION	L4			
Cada	Count	USE	400/ Value	L5			
J3	Count	Acres	40% Value	L6			
J3 J4				L7			
J4 J5				L8			
J9				L9			
	PA FATE	R MARKI	ET ASSMT	TOTAL	772	3,828,954	0
			40% Value		SUMM		
F3				Code	Count	Acres	40% Value
F4				Residential	4,463	1,093.78	41,472,394
F5				Residential			
F9				Transitional			
	,			Historical			
Total	I			Agricultural	5	26	23,618
ENVI	RONME	NTALLY	SENSITIVE	Preferential			
	Count	Acres	40% Value	Conservation Use	2	94.12	72,504
W3				Brownfield			
W4				Property			
W5				Forest Land			
		MMERCI		Cons Use			
			40% Value	Environmentally			
C1	566		16,627,150	Sensitive			
C3 C4			3,580,742 1,630,096	Commercial	1,253	299.97	31,893,385
C5	37.	122.24	1,030,090	Industrial	95	99.96	13,542,304
C7				Utility	9	1.62	2,644,907
C9				Motor Vehicle	1,476		2,896,380
CA				Mobile Home	8		30,410
СВ	1		120	Timber 100% Heavy	0	0	0
CF	279		6,495,492	Equipment	0		0
CI	152		3,559,785	Gross Digest	7,311	1,615.45	92,575,902
СР			, ,	Exemptions			
CZ				Bond			
	INI	DUSTRI	AL	Net Bond Digest			92,575,902
Code	Count	Acres	40% Value	Gross Digest	7,311	1,615.45	92,575,902
I1	58		3,710,971	Exemptions-			3,828,954
13	3	11.44	48,029	M&O			
14	11	88.52	328,647	Net M&O Digest			88,746,948
			4	DisplayDigest aspx			

4/7/2017					Display Diges	st
15				TAX LEV	IED	
17 19			TYPE	ASSESSED VALUE	MILLAGE	TAX
IA			M & O	88,746,948	11.990 1,0	064,075.91
IB			BOND	92,575,902	.000	0.00
IF	8	5,619,590				
II	8	1,143,944				
IP	7	2,691,123				
IZ						
			Return			

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GEORGIA DEPARTMENT OF REVENUE Local Government Services Division County Digest Section

2016 TAX DIGEST CONSOLIDATED SUMMARY

County:PIERCE County #:113 Tax District:PATTERSON

Dist #: 10 Assessment %: 040 Tot Parcels:558

	RES	DENTI/	AL		UTILITY	,	
		_	40%	Code	Count	Acres	40% Value
Code	Count	Acres	Value	U1			
R1	639		8,040,103	U2	10	5.35	1,010,315
R3	409 3	359.64	1,266,977	U3	1	1.14	0
R4	35	134.8	270,377	U4			
R5				U5			
R6				U7			
R7				U9			
R9				UA			
RA				UB			
RB	49		27,568	UF			
RF				UZ			
RI					EXEMPT PROF	PERTY	
RZ				Code	Count	40%	
RESI	DENTIA	L TRAN	SITIONAL		Court	Value	
Code	Count	Acres	40%	EO			
T1			Value	E1	22	494,042	
T3				E2	24	323,710	
T4				E3	1	4,879	
14	шт	STORIC		E4	1	4,423	
	111	STORIC	40%	E5	_		
Code	Count	Acres	Value	E6	2	355,624	
Н1				E7			
НЗ				E8 E9			
	AGRI	CULTUR	AL	E9			
Codo	Count	Acros	40%	TOTAL	50 1	L,182,678	
Code	Count	Acres	Value	HOMESTEAL	D AND PROPEI		TIONS
A1	15		214,915	Code	Count	M&O	Bond
А3				S1	94	0	
A4				sc			
A5	6 3	337.71	195,941	S2			
A6				S3			
A7				S4			
A9				S5	2	49,562	
AA				SD	0	0	
AB				SS	0	0	
AF				SE	0	0	
AI							

4/7/2017 Display Digest

72011						Diopia	Digost
AZ				SG	0	0	
	PREF	ERENTI	AL	S6			
		_	40%	S7			
Code	Count	Acres	Value	S8			
Р3				S9			
P4				SF	2	0	
P5				SA	0	0	
Р6				SB	0	0	
P7				SP	67	37,330	
P9				SH	0	0	
	CONSE	RVATION	N USE	ST	0	0	
Codo	Count	Acres	40%	SV	11	252,661	
Code	Count	Acres	Value	SJ	0	0	
V3				sw	0	0	
V4	6	59.51	99,449	SX			
V5	5	345.56	229,519	SN	19	0	
V6	2		4,172	DO NOT USE	CODES L1-L	9 ON STAT	E SHEET
BR	OWNFI	ELD PR	OPERTY	L1			
Code	Count	Acres	40%	L2			
		710.00	Value	L3			
B1				L4			
В3				L5			
B4				L6			
B5				L7			
В6				L8			
FORE	ST LAN		ERVATION	L9			
		USE	40%				
Code	Count	Acres	Value	TOTAL	195	339,553	0
J3					SUMMAR	RY	
14				Code	Count		40% Value
J 5				Residential	1,132	494.44	9,605,025
J9				Residential			
FLP	A FAIR	MARKE	T ASSMT	Transitional			
0 - 1 -			40%	Historical Agricultural	21	227.71	410.056
Code	Count	Acres	Value	Preferential	21	337.71	410,856
F3							
F4				Conservation Use	13	405.07	333,140
F5				Brownfield			
F9				Property			
,				Forest Land			
Total				Cons Use			
I		DNMENT		Environmentally			
	SE	NSITIVE		Sensitive			
Code	Count	Acres	40% Value	Commercial	266	68.31	
W3			74140	Industrial	22	16.82	, ,
W4				Utility	11	6.49	, ,
W5				Motor Vehicle	348		563,790
	COM	IMERCI/	ΔL	Mobile Home	20		52,094
	001		40%	Timber 100%	0	0	0
Code	Count	Acres	Value	Heavy	0		0
C1	121		1,593,281	Equipment Gross Digest	1 022	1 220 04	17,402,989
С3	57	44.64	978,233	Exemptions	1,833	1,320.84	17,702,309
C4	7	23.67	93,220	Exemptions			
C5				Net Bond Digest			17,402,989
C7				Gross Digest	1,833	1,328.84	17,402,989
С9				Exemptions-	_,	,	
CA				M&O			339,553

СВ				Net M&O Diges	st		17,063,436
CF	58	1,25	3,547		TAX LEVI	ED	
CI CP	23	48	8,136	TYPE	ASSESSED VALUE	MILLAGE	TAX
CZ				M & O	17,063,436	8.881	151,540.38
INDUSTRIAL				BOND	17,402,989	.000	0.00
Code	Count	Acres	40% Value				

	IND	USTRIA	L	DOINE	177.02/303
Code	Count	Acres	40% Value		
I1	14		317,492		
13	1	5.97	14,328		
14	2	10.85	26,040		
15					
17					
19					
IA					
IB					
IF	2		238,751		
II	1		18,293		
ΙP	2		406,448		
IZ					

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Appendix C

APPENDIX C Other Planning Documents

I Community Wildfire Protection Plan



A Program of the Georgia Forestry Commission with support from the U.S. Forest Service

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Community Wildfire Protection Plan An Action Plan for Wildfire Mitigation and Conservation of Natural Resources

Pierce County, Georgia



Prepared by; Donald James, Ranger II Pierce County Will Fell CWPP Specialist Georgia Forestry Commission 6047 E Main St Patterson, GA 31557

The following report is a collaborative effort among various entities; the representatives listed below comprise the core decision-making team responsible for this report and mutually agree on the plan's contents:

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PLAN CONTENTS

PREFACE

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	Pierce County Wildfire Pre-suppression Plan	

NFPA 1141 Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.

Preface

The extreme weather conditions that are conducive to wildfire disasters (usually a combination of extended drought, low relative humidity and high winds) can occur in this area of Georgia as infrequently as every 10-15 years. This is not a regular event, but as the number of homes that have been built in or adjacent to forested or wildland areas increases, it can turn a wildfire under these weather conditions into a major disaster. Wildfires move fast and can quickly overwhelm the resources of even the best equipped fire department. Advance planning can save lives, homes and businesses.

This Community Wildfire Protection Plan (CWPP) includes a locally assessed evaluation of the wildland urban interface areas of the county, looking at the critical issues regarding access to these areas, risk to properties from general issues such as building characteristics and "fire wise" practices and response from local fire fighting resources. It further incorporates a locally devised action plan to mitigate these risks and hazards though planning, education and other avenues that may become available to address the increasing threat of wildland fire. The CWPP does not obligate the county financially in any way, but instead lays a foundation for improved emergency response if and when grant funding is available to the county.

The Plan is provided at no cost to the county and can be very important for county applications for hazard mitigation grant funds through the National Fire Plan, FEMA mitigation grants and Homeland Security. Under the Healthy Forest Restoration Act (HFRA) of 2003, communities (counties) that seek grants form the federal government for hazardous fuels reduction work are required to prepare a Community Wildfire Protection Plan.

This plan will:

- Enhance public safety
- Raise public awareness of wildfire hazards and risks
- Educate homeowners on how to reduce home ignitability
- Build and improve collaboration at multiple levels

The public does not have to fall victim to this type of disaster. Homes (and communities) can be designed, built and maintained to withstand a wildfire even in the absence of fire equipment and firefighters on the scene. It takes planning and commitment at the local level before the wildfire disaster occurs and that is what the Community Wildfire Protection Plan is all about.

I. OBJECTIVES

The mission of the following report is to set clear priorities for the implementation of wildfire mitigation in Pierce County. The plan includes prioritized recommendations for the appropriate types and methods of fuel reduction and structure ignitability reduction that will protect this community and its essential infrastructure. It also includes a plan for wildfire suppression. Specifically, the plan includes community-centered actions that will:

- Educate citizens on wildfire, its risks, and ways to protect lives and properties,
- Support fire rescue and suppression entities,
- Focus on collaborative decision-making and citizen participation,
- Develop and implement effective mitigation strategies, and
- Develop and implement effective community ordinances and codes.

II. COMMUNITY COLLABORATION

The core team convened on October 27th, 2011 to assess risks and develop the Community Wildfire Protection Plan. The group is comprised of representatives from local government, local fire authorities, and the state agency responsible for forest management. Below are the groups included in the task force:

Pierce County EMA
Pierce County Volunteer Fire Depts
Pierce County Board of Commissioners
City of Blackshear Fire Department
City of Patterson Fire Department

Georgia Forestry Commission

It was decided to conduct community assessments on the basis individual fire districts in the county. The chiefs of the fire departments in the county assessed their districts and reconvened on June 25th, 2012 for the purpose of completing the following:

Risk Assessment Assessed wildfire hazard risks and prioritized mitigation actions.

Fuels Reduction Identified strategies for coordinating fuels treatment projects.

Structure Ignitability Identified strategies for reducing the ignitability of structures

within the Wildland interface.

Emergency Management Forged relationships among local government and fire districts and

developed/refined a pre-suppression plan.

Education and Outreach Developed strategies for increasing citizen awareness and action

and to conduct homeowner and community leader workshops.

III. COMMUNITY BACKGROUND AND EXISTING SITUATION

Background

Covering 343 square miles in southeast Georgia, Pierce County is the state's 120th county, created in 1857 from Appling and Ware counties. It was named for Franklin Pierce, the fourteenth president of the United States and an anti-abolitionist from New Hampshire. The land was originally held by Creek Indians who were expelled from their territory by General David Blackshear under orders from the U.S. government after the start of the War of 1812 (1812-15). (Blackshear also directed the building of a military road through the area in 1814-15.) Parts of Pierce County were later appropriated to form Bacon County, in 1914, and Brantley County, in 1920.

The county seat is Blackshear, which was named by the state legislature before the town was created. In 1858 those responsible for choosing a site decided to build the community around a depot constructed in 1857 by the Atlantic and Gulf Railroad. The first courthouse in Blackshear was built in 1858. When it burned down in 1875, a new courthouse was constructed. This building, replaced in 1902 by the current courthouse, is now a private residence. Remodeled in the 1970s and provided with an addition in 1975, the current courthouse was placed on the National Register of Historic Places in 1980. In addition to Blackshear, two other incorporated towns, Offerman and Patterson, are found in Pierce County.

The Civil War (1861-65) began soon after Pierce County was formed, with the result that many of its healthy young men went to war before they could join in the formation of communities. The few townspeople who remained in the county's 333 households found themselves hosts to a temporary Confederate prisoner-of-war camp from November 1864 through January 1865. Nearly 5,000 Union captives were brought to Blackshear to prevent their release by Union general William T. Sherman as he marched through the state; the prisoners were subsequently sent on to Sayannah for the same reason.

During the nineteenth century, agriculture was the primary occupation in Pierce County. The county's lush pine forests were tapped for both timber and turpentine. The timber industry brought new residents to work in the county's forests and sawmills and contributed to its growth. Businesses developed to serve those who came, and railroad lines were brought in to transport people and products. Cotton was also a major product until the 1920s, when a boll weevil infestation devastated much of Georgia's harvest. Many of Pierce County's cotton planters shifted to tobacco culture, which was the county's major agricultural product from the 1920s until late in the twentieth century.

Blackshear Presbyterian Church, built in 1874, is the oldest Presbyterian church in the county. The Reverend I. S. K. Axson of Savannah (grandfather of U.S. president Woodrow Wilson's first wife, Ellen Axson) performed the dedication service, and the church's first pastor, the Reverend Richard Quarterman Way, was a retired missionary from China. Shiloh Primitive Baptist Church and its cemetery, which is the oldest in the county, was first used in the 1830s. Civilians as well as veterans of all American conflicts through the Vietnam War (1964-73) are buried there.

Other historic sites include the Brantley Brick Warehouse. Dating from around 1900, it is one of the oldest brick tobacco warehouses in Georgia and has been converted into retail and office space. The site of the temporary Confederate prison camp is indicated by a historical marker on the outskirts of Blackshear. The Pierce County Jail, built in 1894, was added to the National Register of Historic Places in 1980. Used until the 1920s and garnering the nickname "Hanging Jail" because of its high tower, it was the third of the county's five jails.

The Heritage Museum, located in the Blackshear Depot, mounts displays pertaining to the lives of the early settlers in the county, with exhibitions on agriculture, church histories, and the Civil War. It also has a large photograph and document collection as well as a genealogical library. The Pierce County Chamber of Commerce is housed in an Atlantic Coast Line Railroad depot, which was added to the National Register of Historic Places in 2000.

The Marian Anderson Library Rosenwald School, in Blackshear, was completed in 1926. This school was one of many Rosenwald schools built in Georgia. Currently used for storage by a local business, it once served as a school for the area's African American children and housed a collection of books and paintings relating to the African American experience. The collection was moved in the 1950s to the Lee Street Resource Center, which today offers youth mentoring programs.

Pierce County shares the Little Satilla Wildlife Management Area with Wayne County.

According to the 2010 U.S. census, the population of Pierce County was 18,758, an increase from the 2000 population of 15,636.

Elizabeth B. Cooksey, Savannah, Courtesy New Georgia Encyclopedia

Existing Situation

Pierce County in south east Georgia, is still 51% forested, despite a strong agricultural presence in the county. Perhaps with the exception of the large blocks of woodlands on the eastern side of the county, there are homes and communities scattered throughout. The risks and hazards from the wildland urban interface are fairly general and substantial throughout the county even on the edges of the three incorporated cities.

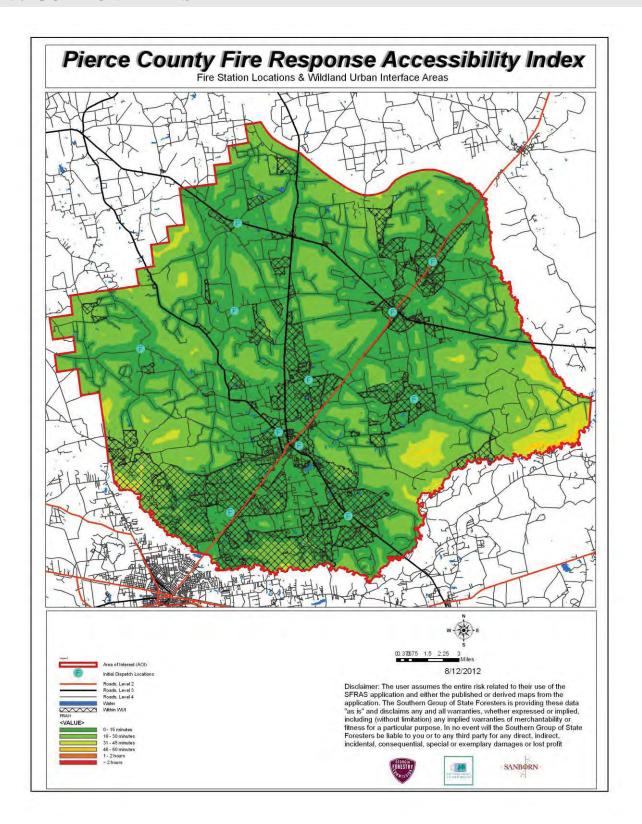
Pierce County is protected by 11 organized volunteer fire departments located in Blackshear (2 stations), Patterson, Offerman, Hacklebarney, Sunset, Walkerville, Northside, Southside and Bearville. The Georgia Forestry Commission maintains a county protection unit located one mile east of Patterson on GA Hwy 32 to respond to wildfires throughout the county. The cities of Blackshear, Patterson and Offerman are serviced by pressurized water systems with hydrants available.

Over the past 54 years, Pierce County has averaged 64 reported wildland fires per year, burning an average of 261 acres per year. Using more recent figures over the past 20 years, this number has dropped somewhat to an average of 56 fires per year burning on average 182 acres annually. The marked decrease in acres may be due to better detection and equipment over the years. The occurrence of these fires during this later period shows a pronounced peak during the months of January, February, March, and April accounting for 54% of the annual fires and 67% of the average acreage burned. There is a significant decrease during the remainder of the year, particularly during the fall months.

Over the past 20 years, the leading causes of these fires, was debris burning causing 48% of the fires and 53% of the acres burned. Over the past six years records show that over 40% of the debris fires originated from residential burning.

Georgia Forestry Commission Wildfire Records show that in the past seven years, ten homes damaged by wildfire in Pierce County resulting in estimated loss of \$253,000 along with 17 outbuildings valued at \$77,200. According to reports during this period 98 homes have been directly or indirectly threatened by these fires. Additionally three vehicles valued at \$2,500 and seven other pieces of mechanized equipment valued at \$10,300 were lost. This is a significant loss of non timber property attributed to wildfires in Pierce County.

IV. COMMUNITY BASE MAP



V. COMMUNITY WILDFIRE RISK ASSESSMENT

The Wildland-Urban Interface

There are many definitions of the Wildland-Urban Interface (WUI), however from a fire management perspective it is commonly defined as an area where structures and other human development meet or intermingles with undeveloped wildland or vegetative fuels. As fire is dependent on a certain set of conditions, the National Wildfire Coordinating Group has defined the wildland-urban interface as a set of conditions that exists in or near areas of wildland fuels, regardless of ownership. This set of conditions includes type of vegetation, building construction, accessibility, lot size, topography and other factors such as weather and humidity. When these conditions are present in certain combinations, they make some communities more vulnerable to wildfire damage than others. This "set of conditions" method is perhaps the best way to define wildland-urban interface areas when planning for wildfire prevention, mitigation, and protection activities.

There are three major categories of wildland-urban interface. Depending on the set of conditions present, any of these areas may be at risk from wildfire. A wildfire risk assessment can determine the level of risk.

- 1. "Boundary" wildland-urban interface is characterized by areas of development where homes, especially new subdivisions, press against public and private wildlands, such as private or commercial forest land or public forests or parks. This is the classic type of wildland-urban interface, with a clearly defined boundary between the suburban fringe and the rural countryside.
- **2.** "Intermix" wildland-urban interface areas are places where improved property and/or structures are scattered and interspersed in wildland areas. These may be isolated rural homes or an area that is just beginning to go through the transition from rural to urban land use.
- **3. "Island" wildland-urban interface**, also called occluded interface, are areas of wildland within predominately urban or suburban areas. As cities or subdivisions grow, islands of undeveloped land may remain, creating remnant forests. Sometimes these remnants exist as parks, or as land that cannot be developed due to site limitations, such as wetlands. (courtesy *Fire Ecology and Wildfire Mitigation in Florida* 2004)

Wildland Urban Interface Hazards

Firefighters in the wildland urban interface may encounter hazards other than the fire itself, such as hazardous materials, utility lines and poor access.

Hazardous Materials

• Common chemicals used around the home may be a direct hazard to firefighters from a flammability, explosion potential and/or vapors or off gassing. Such chemicals include paint, varnish and other flammable liquids, fertilizer, pesticides, cleansers, aerosol cans, fireworks, batteries and ammunition. In addition, some common household products such as plastics may give off very toxic fumes when they burn. Stay out of smoke form burning structures and any unknown sources such as trash piles.

Illicit Activities

 Marijuana plantations or drug production labs may be found in the wildland urban interface areas. Extremely hazardous materials such as propane tanks and flammable/toxic chemicals may be encountered.

Propane Tanks

 Both large (household size) and small (gas grill size) liquefied propane gas (LPG) tanks can present hazards to firefighters, including explosion. See the "LPG Tank Hazards" discussion for details

Utility Lines

• Utility Lines may be located above and below ground and may be cut or damaged by tools or equipment. Don't spray water on utility lines or boxes.

Septic Tanks and Fields

• Below ground structures may not be readily apparent and may not support the weight of engines or other equipment.

New Construction Materials

Many new construction materials have comparatively low melting points and may "off-gas" extremely hazardous vapors. Plastic decking materials that resemble wood are becoming more common and may begin softening and losing structural strength at 180 degrees F, though they normally do not sustain combustion once direct flame is removed. However if they continue to burn they exhibit the characteristics of flammable liquids.

Pets and Livestock

Pets and livestock may be left when residents evacuate and will likely be highly stressed
making them more inclined to bite and kick. Firefighters should not put themselves at
risk to rescue pets or livestock.

Evacuation Occurring

• Firefighters may be taking structural protect actions while evacuations of residents are occurring. Be very cautious of people driving erratically. Distraught residents may refuse to leave their property and firefighters may need to disengage from fighting fire to contact law enforcement officers for assistance. In most jurisdictions firefighters do not have the authority to force evacuations. Firefighters should not put themselves at risk trying to protect someone who will not evacuate!

Limited Access

 Narrow one-lane roads with no turn around room, inadequate or poorly maintained bridges and culverts are frequently found in wildland urban interface areas. Access should be sized up and an evacuation plan for all emergency personnel should be developed. The wildland fire risk assessments conducted in 2012 by the Pierce County Fire Departments returned a number of areas in the moderate to high range. The risk assessment instrument used to evaluate wildfire hazards to Pierce County's WUI was the Hazard and Wildfire Risk Assessment Checklist. The instrument takes into consideration accessibility, vegetation (based on fuel models), roofing assembly, building construction, and availability of fire protection resources, placement of gas and electric utilities, and additional rating factors. The following factors contributed to the wildfire hazard scores for Pierce County:

- Unpaved roads and private driveways with inadequate culverts.
- Narrow roads without drivable shoulders and inadequate overhead clearance
- Dead-end roads without "turnarounds"
- Access blocked by railroads
- Lack of uniform address signs
- Minimal defensible space around structures
- Homes with wooden siding
- Lack of pressurized or non-pressurized water systems available outside of cities.
- Large, adjacent areas of forest or wildlands
- Heavy fuel buildup in adjacent wildlands
- High occurrence of wildfires in the several locations
- Lack of homeowner or community organizations

Area/ Community	Community Access	Surrounding Vegetation	Bldg Construction	Fire Protection	Utilities	Add. Factors	Score	Hazard Rating
Blackshear	3	15	0	4	1	5	28	Low
Patterson	3	15	0	4	4	5	31	Low
Offerman	14	20	0	20	7	15	76	High
Hacklebarney	14	20	0	12	4	10	60	Moderate
Walkerville	14	20	0	18	7	15	74	Moderate
Otter Creek	14	20	0	8	7	20	69	Moderate
Bearville	14	20	0	12	7	19	62	Moderate
Sunset	14	20	0	18	7	15	74	Moderate
Southside	14	20	0	12	7	12	65	Moderate
Northside	14	20	0	18	7	15	74	Moderate

Southern Fire Risk Assessment System Maps.

The attached maps were generated from a computerized Geographical Information System (GIS) program developed by the Sanborn Company under contract from the Southern Group of State Foresters to model the various risks to life and property within the southeastern US. The program is known as the Southern Fire Risk Assessment System (SFRAS). It utilizes multiple layers of data developed cooperatively from the various states and the US Forest Service under the Southern Wildfire Risk Assessment (SWRA)

Wildland Urban Interface maps are developed using data from the SILVIS Lab at the University of Wisconsin at Madison. WUI is composed of both interface and intermix communities. In both interface and intermix communities, housing must meet or exceed a minimum density of one structure per 40 acres. Intermix communities are places where housing and vegetation intermingle. In intermix, wildland vegetation is continuous, more than 50 percent vegetation, in areas with more than one house per 40 acres. Interface communities are areas with housing in the vicinity of continuous vegetation. Interface areas have more than one house per 40 acres, have less than 50 percent vegetation, and are within 1.5 miles of an area (made up of one or more contiguous Census blocks) over 1,325 acres that is more than 75 percent vegetated. The minimum size limit ensures that areas surrounding small urban parks are not classified as interface WUI.

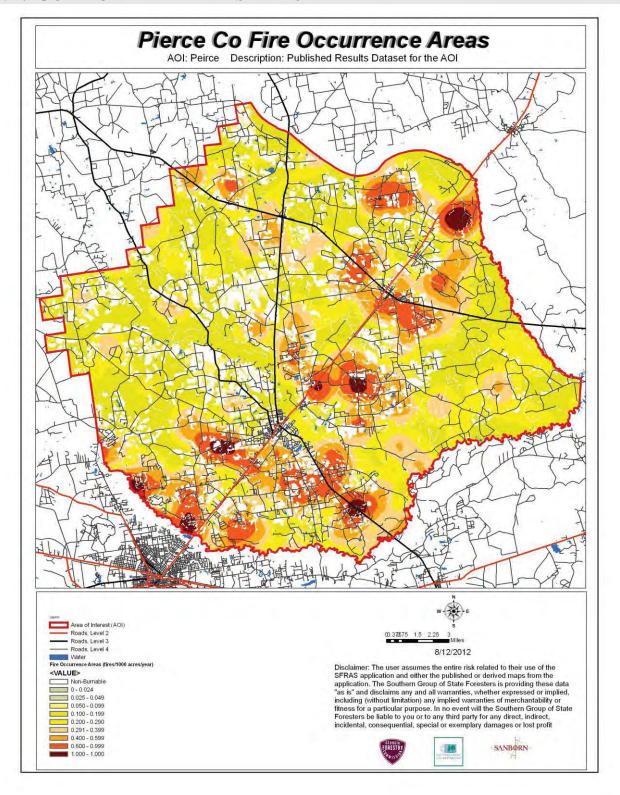
<u>Fire Response Accessibility Index</u> is a relative measure of how long it would take initial attack resources to drive from their station to various areas of the county. This index is derived from assigning average speeds to the various road classes in the county. For the purpose of this analysis the following speeds were assigned: 55 mph for level 1 roads, primarily interstates and four lane open highways, 45 mph for level 2 roads, primarily state and federal highways, 40 mph for level 3 roads, primarily paved two lanes collector roads and 20 mph for level 4 roads, mainly city streets and rural roads, paved and unpaved. For areas away from roads a travel speed of 2 mph is assigned as it is assumed travel will be by foot or extremely slow moving equipment.

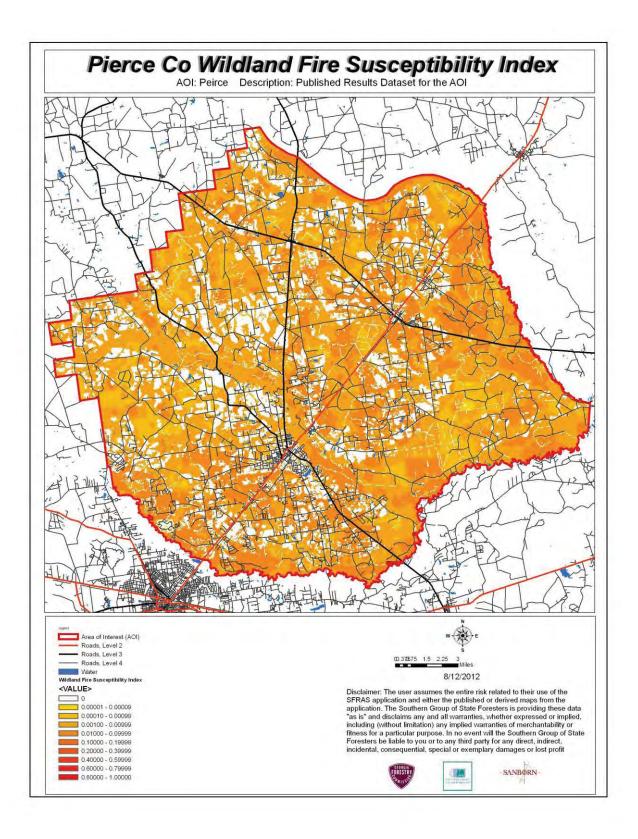
<u>Fire Occurrence Areas</u> maps use data from wildfire reports over the period from 1997-2002. The fire occurrence rates mapped are the probability of the number of fires occurring per 1000 acres per year base on this historic information.

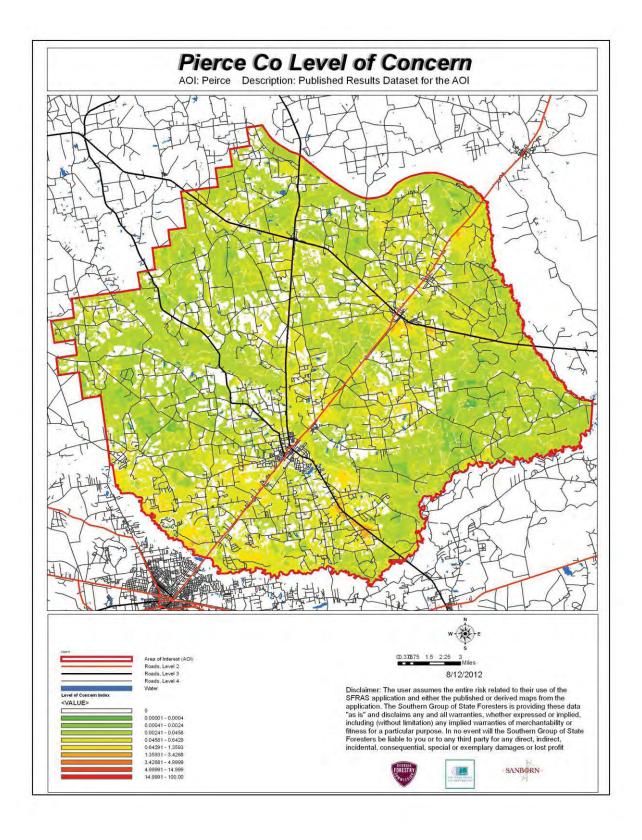
<u>Wildland Fire Susceptibility</u> maps show an index value between 0 and 1 and are developed by a mathematical calculation process for determining the probability of an acre burning and the expected final fire size. Many layers of data are used in developing this calculation including historic fire data, wildland fuels and rate of spread, canopy attributes (closure, height and density), weather influences, topography, soils and fire suppression effectiveness.

<u>Level of Concern</u> maps are a complex calculation using the Wildland Fire Susceptibility Index (previously described) and the Fire Effects Index which is calculated using data layers of transportation and infrastructure, urban interface and timber values along with suppression difficulty ratings. This provides an output categorizing the expected levels of concern from low to high.

VI. COMMUNITY HAZARDS MAPS







VII. PRIORITIZED MITIGATION RECOMMENDATIONS

Executive Summary

As Southeastern Georgia continues to see increased growth from other areas seeking less crowded and warmer climes, new development will occur more frequently on forest and wildland areas. Pierce County will have an opportunity to significantly influence the wildland fire safety of new developments. It is important that new development be planned and constructed to provide for public safety in the event of a wildland fire emergency.

Over the past 20 years, much has been learned about how and why homes burn during wildland fire emergencies. Perhaps most importantly, case histories and research have shown that even in the most severe circumstances, wildland fire disasters can be avoided. Homes can be designed, built and maintained to withstand a wildfire even in the absence of fire services on the scene. The national Firewise Communities program is a national awareness initiative to help people understand that they don't have to be victims in a wildfire emergency. The National Fire Protection Association has produced two standards for reference: NFPA 1144 Standard for Reducing Structure Ignition Hazards from Wildland Fire. 2008 Edition and NFPA 1141 Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas.

When new developments are built in the Wildland/Urban Interface, a number of public safety challenges may be created for the local fire services: (1) the water supply in the immediate areas may be inadequate for fire suppression; (2) if the Development is in an outlying area, there may be a longer response time for emergency services; (3) in a wildfire emergency, the access road(s) may need to simultaneously support evacuation of residents and the arrival of emergency vehicles; and (4) when wildland fire disasters strike, many structures may be involved simultaneously, quickly exceeding the capability of even the best equipped fire departments.

The following recommendations were developed by the Pierce County CWPP Core team as a result of surveying and assessing fuels and structures and by conducting meetings and interviews with county and city officials. A priority order was determined based on which mitigation projects would best reduce the hazard of wildfire in the assessment area.

Proposed Community Hazard and Structural Ignitability Reduction Priorities

Primary Protection for Community and Its Essential Infrastructure					
Treatment Area	Treatment Types	Treatment Method(s)			
1. All Structures	Create minimum of 30-feet of defensible space**	Trim shrubs and vines to 30 feet from structures, trim overhanging limbs, replace flammable plants near homes with less flammable varieties, remove vegetation around chimneys.			
2. Applicable Structures	Reduce structural ignitability**	Clean flammable vegetative material from roofs and gutters, store firewood appropriately, install skirting around raised structures, store water hoses for ready access, and replace pine straw and mulch around plantings with less flammable landscaping materials.			
3. Community Hazards	Utility services	Work with GA Power and EMC's to encourage new underground service to rural homes. Adopt standards for safety zone around propane distribution tanks.			
4. Driveway Access	Right of Way Clearance	Maintain vertical and horizontal clearance for emergency equipment. See that adequate lengths of culverts are installed to allow emergency vehicle access.			
5. Road Access	Identify needed road improvements	As roads are upgraded, widen to minimum standards with at least 50 foot diameter cul de sacs or turn arounds.			
6. Codes and Ordinances	Examine existing codes and ordinances.	Amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris on property), Property address marking standards and other relevant concerns Review the need for subdivision and development ordinances for public safety concerns. Adopt and enforce uniform addressing ordinance.			
7. Law Enforcement	Traffic control	Work with local law enforcement to better control non essential traffic during fire emergencies.			

Proposed Community Wildland Fuel Reduction Priorities						
Treatment Area	Treatment Types	Treatment Method(s)				
1. Adjacent WUI Lands	Reduce hazardous fuels	Encourage prescribed burning for private landowners and industrial timberlands particularly adjacent to residential areas. Seek grant for mowing or prescribed burning in WUI areas.				
2. Railroad Corridors	Reduce hazardous fuels	Encourage railroads to better maintain their ROW eliminating brush and grass through herbicide and mowing. Maintain firebreaks along ROW adjacent to residential areas.				
3. Existing Fire Lines	Reduce hazardous fuels	Clean and re-harrow existing lines.				
Proposed Improved Commu	nity Wildland Fire Resp	oonse Priorities				
1. Water Sources	Helicopter Dip Spots and Dry Hydrants	Inspect, maintain and improve access to existing dry hydrants. Add signage along road to mark the hydrants. GFC to locate and pre-clear additional helicopter dip locations.				
2. Fire Stations	Equipment	Wildland hand tools. Lightweight Wildland PPE Gear.				
3. Road Names	Road Signage	Improved Road Signage at Crossroads. "Dead End" or "No Outlet" Tags on Road Signs				
4. Personnel	Training	Obtain Wildland Fire Suppression training for Fire Personnel.				
**Actions to be taken by homeowners and community stakeholders						

Proposed Education and Outreach Priorities

1. Conduct "How to Have a Firewise Home" Workshop for Pierce County Residents

Set up and conduct a workshop for homeowners that teach the principles of making homes and properties safe from wildfire. Topics for discussion include defensible space, landscaping, building construction, etc. Workshop will be scheduled for evenings or weekends when most homeowners are available and advertised through local media outlets. Target local schools, community groups and local senior centers.

Distribute materials promoting firewise practices and planning through local community and governmental meetings.

2. Conduct "Firewise" Workshop for Community Leaders

Arrange for GFC Firewise program to work with local community leaders and governmental officials on the importance of "Firewise Planning" in developing ordinances and codes as the county as the need arises. Identify "Communities at Risk" within the county for possible firewise community recognition.

3. Spring Clean-up Event

Conduct clean-up event every spring involving the Georgia Forestry Commission, Pierce County Fire Departments and community residents. Set up information table with educational materials and refreshments. Initiate the event with a morning briefing by GFC Firewise coordinator and local fire officials detailing plans for the day and safety precautions. Activities to include the following:

- Clean flammable vegetative material from roofs and gutters
- Trim shrubs and vines to 30 feet away from structures
- Trim overhanging limbs
- Clean hazardous or flammable debris from adjacent properties

Celebrate the work with a community cookout, with Community officials, GFC and Pierce County Fire Departments discussing and commending the work accomplished.

4. Informational Packets

Develop and distribute informational packets to be distributed by realtors and insurance agents. Included in the packets are the following:

- Be Firewise Around Your Home
- Firewise Guide to Landscape and Construction
- Firewise Communities USA Bookmarks

5. Wildfire Protection Display

Create and exhibit a display for the general public at local events such as the Pecan Festival. Display can be independent or combined with the Georgia Forestry Commission display.

Hold Open House at individual Fire Stations to promote Community Firewise Safety and develop community support and understanding of local fire departments and current issues.

6. Press

Invite the local news media to community "Firewise" functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Pierce County.

VIII. ACTION PLAN

Roles and Responsibilities

The following roles and responsibilities have been developed to implement the action plan:

Role	Responsibility
Hazardous Fuels and Structural Ig	gnitability Reduction
Pierce County WUI Fire Council	Create this informal team or council comprised of residents, GFC officials, Pierce County Fire Department officials, a representative from the city and county governments along with EMA Director for Pierce County. Meet periodically to review progress towards mitigation goals, appoint and delegate special activities, work with federal, state, and local officials to assess progress and develop future goals and action plans. Work with residents to implement projects and firewise activities.
Key Messages to focus on	1 Defensible Space and Firewise Landscaping
	2 Debris Burning Safety
	3 Firewise information for homeowners
	4 Prescribed burning benefits
Communications objectives	 Create public awareness for fire danger and defensible space issues Identify most significant human cause fire issues Enlist public support to help prevent these causes Encourage people to employ fire prevention and defensible spaces in their communities.
Target Audiences	1 Homeowners2 Forest Landowners and users3 Civic Groups4 School Groups
Methods	 News Releases Radio and TV PSA's for area stations and cable access channels Personal Contacts Key messages and prevention tips Visuals such as signs, brochures and posters

Spring Clean-up Day	
Event Coordinator	Coordinate day's events and schedule, catering for cookout, guest attendance, and moderate activities the day of the day of the event.
Event Treasurer	Collect funds from residents to cover food, equipment rentals, and supplies.
Publicity Coordinator	Advertise event through neighborhood newsletter, letters to officials, and public service announcements (PSAs) for local media outlets. Publicize post-event through local paper and radio PSAs.
Work Supervisor	Develop volunteer labor force of community residents; develop labor/advisory force from Georgia Forestry Commission, Pierce County Fire Departments and Emergency Management Agency. Procure needed equipment and supplies. In cooperation with local city and county officials, develop safety protocol. Supervise work and monitor activities for safety the day of the event.

Funding Needs

The following funding is needed to implement the action plan:

Project	Estimated Cost	Potential Funding Source(s)
Create a minimum of 30 feet of defensible space around structures	Varies	Residents will supply labor and fund required work on their own properties.
2. Reduce structural ignitability by cleaning flammable vegetation from roofs and gutters; appropriately storing firewood, installing skirting around raised structures, storing water hoses for ready access, replacing pine needles and mulch around plantings with less flammable material.	Varies	Residents will supply labor and fund required work on their own properties.
3. Amend codes and ordinances to provide better driveway access, increased visibility of house numbers, properly stored firewood, minimum defensible space brush clearance, required Class A roofing materials and skirting around raised structures, planned maintenance of community lots.	No Cost	To be adopted by city and county governments.
4. Spring Cleanup Day	Varies	Community Business Donations.
5. Fuel Reduction Activities	\$35/acre	FEMA & USFS Grants

POTENTIAL FUNDING SOURCES:

As funding is questionable in these times of tight government budgets and economic uncertainty, unconventional means should be identified whereby the need for funding can be reduced or eliminated.

Publications / Brochures –

- FIREWISE materials are available for cost of shipping only at www.firewise.org.
- Another source of mitigation information can be found at www.nfpa.org.
- Access to reduced cost or free of charge copy services should be sought whereby publications can be reproduced.
- Free of charge public meeting areas should be identified where communities could gather to be educated regarding prevention and firewise principles.

Mitigation -

- Community Protection Grant:
 - USFS sponsored prescribed burn program. Communities with at risk properties that lie within 3
 miles of the USFS border may apply with the GFC to have their forest land prescribed burned free
 of charge.
- FEMA Mitigation Policy MRR-2-08-01: through GEMA Hazard Mitigation Grant Program (HMGP) and Pre Disaster Mitigation (PDM)
 - To provide technical and financial assistance to local governments to assist in the implementation of long term cost effective hazard mitigation measures.
 - This policy addresses wildfire mitigation for the purpose of reducing the threat to all-risk structures through creating defensible space, structural protection through the application of ignition resistant construction, and limited hazardous fuels reduction to protect life and property.
 - With a complete and registered plan (addendum to the State plan) counties can apply for premitigation funding. They will also be eligible for HMGP if the county is declared under a wildfire disaster.
- GFC Plowing and burning assistance can be provided through the Georgia Forestry Commission as a low cost option for mitigation efforts.
- Individual Homeowners
 - In most cases of structural protection ultimately falls on the responsibility of the community and the homeowner. They will bear the cost; yet they will reap the benefit from properly implemented mitigation efforts.
 - GEMA Grant PDM (See above)

Ultimately it is our goal to help the communities by identifying the communities threatened with a high risk to wildfire and educate those communities on methods to implement on reducing those risks.

Assessment Strategy

To accurately assess progress and effectiveness for the action plan, the Pierce County WUI Fire Council will implement the following:

- Annual wildfire risk assessment will be conducted to re-assess wildfire hazards and prioritize needed actions.
- Mitigation efforts that are recurring (such as mowing, burning, and clearing of defensible space) will be incorporated into an annual renewal of the original action plan.
- Mitigation efforts that could not be funded in the requested year will be incorporated into the annual renewal of the original action plan.
- Continuing educational and outreach programs will be conducted and assessed for effectiveness. Workshops will be evaluated based on attendance and post surveys that are distributed by mail 1 month and 6 months following workshop date.
- The Pierce County WUI Council will publish an annual report detailing mitigation projects initiated and completed, progress for ongoing actions, funds received, funds spent, and in-kind services utilized. The report will include a "state of the community" section that critically evaluates mitigation progress and identifies areas for improvement. Recommendations will be incorporated into the annual renewal of the action plan.
- An annual survey will be distributed to residents soliciting information on individual mitigation efforts on their own property (e.g., defensible space). Responses will be tallied and reviewed at the next Pierce County WUI Council meeting. Needed actions will be discussed and delegated.

This plan should become a working document that is shared by local, state, and federal agencies that will use it to accomplish common goals. An agreed-upon schedule for meeting to review accomplishments, solve problems, and plan for the future should extend beyond the scope of this plan. Without this follow up this plan will have limited value



P. O. Box 819, Macon, GA 31202 1-800-GA-TREES GaTrees.org

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Appendix D

PIERCE COUNTY HAZARD FREQUENCY TABLE

							Historic	Past 10	Past 20	Past 50
	Number of	Historic	Frequency	Year	Year	Year				
	Events in	Years in	Events in	Events in	Events in	Recurrenc	%	Record	Record	Record
	Historic	Historic	Past 10	Past 20	Past 50	e Interval	chance/ye	Frequency	Frequency	Frequency
	Record	Record	Years	Years	Years	(years)	ar	Per Year	Per Year	Per Year
Hazard										
Thunderstorm / Wind	88	66	21	48	87	0.75	133.33	2.1	2.4	1.74
Tornado	13	66	3	7	13	5.08	19.70	0.3	0.35	0.26
Hail	33	66	11	29	33	2.00	50.00	1.1	1.45	0.66
Flood	7	66	4	7	7	9.43	10.61	0.4	0.35	0.14
Drought	480	16	290	480	480	0.03	3000.00	29	24	9.6
Severe Winter Storm	6	66	6	6	6	11.00	9.09	0.6	0.3	0.12
Wildfire	3256	50	475	1082	3256	0.02	6512.00	47.5	54.1	65.12
Hurricane / Tropical Storm	3	66	1	3	3	22.00	4.55	0.1	0.15	0.06

NOTE: The historic frequency of a hazard event over a given period of time determines the historic recurrence interval. For example: If there have been 20 HazMat Releases in the County in the past 5 years, statistically you could expect that there will be 4 releases a year.

Realize that from a statistical standpoint, there are several variables to consider. 1) Accurate hazard history data and collection are crucial to an accurate recurrence interval and frequency. 2) Data collection and accuarcy has been much better in the past 10-20 years (NCDC weather records). 3) It is important to include all significant recorded hazard events which will include periodic updates to this table.

By updating and reviewing this table over time, it may be possible to see if certain types of hazard events are increasing in the past 10-20 years.

Date:

What kinds of natural hazards can affect you?

Task A. List the hazards that may occur.

- 1. Research newspapers and other historical records
- 2. Review existing plans and reports.
- 3. Talk to the experts in your community, state, or region.
- 4. Gather information on Internet Websites.
- 5. Next to the hazard list below, put a check mark in the Task A boxes beside all hazards that may occur in your community or state.

Task

A

Task

B

Task B. Focus on the most prevalent hazard in your community or state.

1. Go to hazard Websites.

Use this space to record information you find for each of the hazards you

will be researching. Attach additional pages as necessary.

- 2. Locate your community or state on the Website map.
- 3. Determine whether you are in a high-risk area. Get more localized information if necessary.
- 4. Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that post a significant threat.

Coastal Erosion Coastal Storm			Hazard or Event Description (Type of hazard, date of event,	Source of Information	Map Available	Scale of Map
Dam Failure			number of injuries, cost and		for this	_
Drought	_X	_X_	types of damage, etc.)		Hazard?	
Earthquake						
Expansive Soils						
Extreme Heat						
Flood		_X_				
Hailstorm	_X_	_X_				
Hurricane	_X_	_X_				
Land Slide						
Severe Winter Storm	_X_					
Tornado	_X_	_X_				
Tsunami						
Volcano						
Wildfire	_X_	_X_				
Windstorm						
Hazard Material						
Radiological						
Other: Thunderstorm/W	Vind X	X				
Other						
Other						
Note: Bolded hazards on this How-to Guide.	are add	ressed				

GEMA Worksheet #2 Profile Hazard Events Step 2

County:	Date:	

How Bad Can It Get?

Task A. Obtain or create a base map.

GEMA will be providing you with a base map, USGS topos and DOQQ as part of our deliverables to local government for the planning process. Additionally, we will be providing you with detailed hazard layer coverages. These data layers originate from state or nationwide coverage or datasets. Therefore, it is important for local government to assess what you already have at the local level. It is important for you at the local level to have an idea of what existing maps you have available for the planning process. Some important things to think about:

- 1) What maps do we already have in the county that would be relevant to the planning process?
- 2) Have other local plans used maps or mapping technology where there is specific data that is also needed in my local plan?
- 3) What digital maps do we have?
- 4) Do we have any Geographic Information System (GIS) data, map themes or layers or databases here at the local level (or regional) that we can use?
- 5) If we do have any GIS data, where is it located at, and who is our local expert?
- 6) Are there any ongoing GIS or mapping initiatives at the local level in other planning or mapping efforts? If so, what are they, and what are the timetables for completion?
- 7) Are there mapping needs that have been identified at the local level in the past? If so, what are they and when were they identified?
- 8) Of the existing maps, GIS data and other digital mapping information, what confidence do we have at the local level that it is accurate data?

Please answer the above questions on a separate sheet of paper and attach to this worksheet. It is important to realize that those counties that already have GIS and digital mapping, (ie: parcel level data, GPS fire hydrants, etc) higher levels of spatial accuracy and detail will exist for some data layers at the local level. However, for this planning process, that level of detail will not be needed on all layers in the overall mapping and analysis.

You can use existing maps from:

- Road Maps
- USGS topographic maps or Digital Orthophoto Quarter Quads (DOQQ)
- Topographic and/or planimetric maps from other agencies
- Aerial topographic and/or planimetric maps
- Field Surveys
- GIS software
- CADD software
- Digitized paper map

Title of Map	Scale	Date

Task B. Obtain a hazard event profile.	Task C. Record your hazard event profile information.
Avalanche	
Coastal Storm / Coastal Erosion 1. Get a copy of your FIRM. 2. Verify that the FIRM is up-to-date and complete. 3. Determine the annual rate of coastal erosion. 4. Find your design wind speed.	 Transfer the boundaries of your coastal storm hazard areas onto your base map. Transfer the BFEs onto your base map. Record the erosion rates on your base map: Record the design wind speed here and on your base map:
Dam Failure	
Drought	
Earthquake 1. Go to the http://geohazards.cr.usgs.gov Website. 2. Locate your planning area on the map. 3. Determine your PGA.	 Record your PGA: If you have more than one PGA print, download or order your PGA map.
Expansive Soils	
Extreme Heat	
Flood 1. Get a copy of your FIRM 2. Verify the FIRM is up-to-date and complete	 Transfer the boundaries from your firm onto your base map (floodway, 100-yr flood, 500-yr flood). Transfer the BFEs onto your base map.
Hailstorm	
Hurricane	
Land Subsidence	
Landslide 1. Map location of previous landslides. 2. Map the topography 3. Map the geology 4. Identify thee high-hazard areas on your map.	Mark the areas susceptible to landslides onto your base map.
Severe Winter Storm	
Tornado 1. Find your design wind speed. ——————————————————————————————————	 Record your design wind speed: If you have more than one design wind speed, print, download or copy your design wind speed zones, copy the boundary of your design wind speed zones on your base map, then record the design wind speed zones on your base map.
Tsunami	
Wildfire 1. Map the fuel models located within the urbanwildland interface areas. 2. Map the topography. 3. Determine your critical fire weather frequency. 4. Determine your fire hazard severity.	Draw the boundaries of your wildfire hazard areas onto your base map.
Other 1. Map the hazard	1. Record hazard event info on your base map.

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Thunderstorms and Winds in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #1: *Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Thunderstorms and Winds.*

STAPLEE Criteria		S	(-	T	. 13	(A)	Α		/=	P	- 1\		L	N		/ -	E	,		/=-	E		
	(So	cial)	(Tec	hnic	_	(Adn	ninistr	rative)	(Po	olitic	al)		(Lega	l)		(Eco	nomic	:)				mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Increase public awareness of weather radios, shelters, emergency procedures, and the use of WKUB as the emergency broadcast system station in Pierce County and in the Cities of Blackshear, Offerman, and Patterson through public safety announcements, publications, and other means.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+			N/A		N/A
Survey unknown right-of-way areas owned by the Pierce County Commission and the Cities of Blackshear, Offerman, and Patterson in order to establish tree maintenance schedules.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Determine wind ratings and plan to wind retrofit Critical Facilities in Pierce County and in the Cities of Blackshear, Offerman, and Patterson as funds become available to do so.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

STAPLEE Criteria		3		Т			Α			P			L				E				E		
	(So	cial)	(Ted	hnic		(Adn	ninistı	rative)	(P	olitic	al)		(Lega	l)		(Eco	nomi	:)		(Er	viron	mental)	1
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	ong-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	ocal Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Disseminate information to the public concerning wind ratings, champion new construction being built to those minimum wind standards, and champion the wind retrofitting of existing buildings in Pierce County and in the Cities of Blackshear, Offerman, and	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+		N/A		N/A	N/A
Maintain, improve, and upgrade critical infrastructure to avoid/mitigate loss of power. Purchase portable and stationary generators sufficient to maintain power at critical facilities and accessories as	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Tornadoes in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Tornadoes.

STADI ET Critoria		S		T			Α			Р			L				E				E		
STAPLEE Criteria	(So	cial)	(Ted	hnic		(Adn	ninistr	rative)	(P	olitic	al)		(Lega	ıl)		(Eco	nomic	:)		(Er	nviron	mental)	
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Use building inspection program to inspect for adequate tie-downs on new and existing manufactured housing in Pierce County and the Cities of Blackshear, Offerman, and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		N/A	N/A	N/A	N/A
Identify areas in Pierce County and the Cities of Blackshear, Offerman, and Patterson where tornadoes occur frequently.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Plan for pre-disaster mitigation in Tornado & other hazard seasons by preparing public service announcements and brochures. Solicit business participation in distributing information.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

STAPLEE Criteria		S cial\	/Too	T	.al\	/ A also	A	rativa)	/D	P	al\		L	.n		/Eas	E			/E•	E		
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution piu	Secondary Impacts	Staffing	Funding Allocated	Maintenance / avita	Political Support	Local Champion oitilo	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	_		Contributes to Binary Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Promote safe shelter rooms in new and existing buildings in areas of Pierce County and the Cities of Blackshear, Offerman, and Patterson where Tornadoes and other disasters frequently occur.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		N/A	N/A		N/A
Secure funding for a hazardous weather alert system such as: sirens, weather radios, Code Red, reverse call systems, etc., in the Cities of Blackshear, Offerman, and Patterson and in populated areas of Pierce County.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Hail in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Hail.

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STAPLEE Criteria	(So	cial)	(Ted	chnic	al)	(Adn	ninisti	rative)	(P	olitic	al)		(Lega	ıl)		(Eco	nomi	c)		(Er	nviron	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Install storm windows and/or ballistic film on new and existing critical facilities and promote their installation on new and existing private buildings in Pierce County and the Cities of Blackshear, Offerman, and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Encourage the public to include hail damage under insurance coverage and to store equipment and vehicles under shelters in Pierce County and the Cities of Blackshear, Offerman, and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Flood in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Flooding.

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Considerations → for Alternative Actions ↓		Effect on Segment of Population		Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Ì		, D	Effect on Land / Water	pə	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Maintain and clean drainage canals in Pierce County and in the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #2: Plan flood and drainage projects in Blackshear near Carter's Fried Chicken (U.S. 84/121) and in areas lacking curb & gutter.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #3: Plan flood and drainage projects in Offerman at Railroad Lane, Gardenia Drive (more work needed), Mayberry Road, Shellie Trail, Armor Road, Carter Drive, and in areas lacking adequate drainage.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals		Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #4: Plan flood and drainage projects in Patterson on Peach Ave., Pear Ave., Dallas St., Dempsey Trailer Park area, and in areas lacking curb & gutter.		+	+	+	+	+	+	+		+		+	+	+	+	+	+	+	+	+	+	+	+
Action Step #5: Plan flood and drainage projects in Pierce County on Taylor Farm Road, Bennett Road, Bailey Road (off Dean Still), parts of North Bowen Road, Cross Swamp Road, Hackelbarney Road (at Whitney Lake and other areas), Turkey Ridge, SR 203 at Raulerson's Pond (near Milepost #1), Clifford Loop, Sandy Bottom, Mill Creek, Winky Trail, Twin Oaks Drive (at Cason Road), Sinclair Road, Golf Course Rd., Floyd Dr., Satilla Acres Subdivision retention area, and other flood-prone areas.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #6: Replace drainage pipes in Pierce County, Blackshear, Offerman, and Patterson with 18" minimum size pipes, as needed.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
Action Step #7: Attempt to take precautions at water facilities in unincorporated Pierce County and in the Cities of Blackshear, Offerman and Patterson to ensure flood protection, as funds become available to do so.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #8 (formerly #9): Enact subdivision ordinance in Pierce County and the Cities of Blackshear, Offerman, and Patterson requiring subdivision impact studies and 2 separate exits from subdivision areas if a subdivision exceeds a certain number of home sites.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #9 (formerly #10): Work to alleviate present evacuation & emergency access problems in Satilla Acres, behind Farr's, around Golf Course area, Blue Lake, Hacklebarney Village, Oakridge, and others in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #10 (formerly #11): Purchase UTV/ATV vehicle, flat bottomed boat, motor, and trailer for evacuation purposes.	`	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					N/A	N/A
Action Step #11 (formerly #12): Conduct routine storm-water drainage repair & cleaning, constant yard debris collection, and obtain signage and posts for 25 "Street Closed" and 25 "Water Over Road" signs in Pierce County and the Cities of Blackshear, Offerman, and		+	+	+	+	+	+	+	+	+			+	+	+	+	+	+	+	+	+	+	+

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Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #12 (formerly #13): After flood events or other hazard events in Pierce County and the Cities of Blackshear, Offerman, and Patterson, attempt to perform analysis on properties affected to determine if events have occurred in the past and attempt to mitigate or purchase, if necessary.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			N/A	N/A	N/A
Action Step #13 (formerly #14): Continue participation in NFIP and enforce floodplain and building ordinances and regulations. Work towards database to record depth of flooding to determine extent of potential damage.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #14 (formerly #15): Build up roadway and improve drainage affected by 2009 floods in Okefenokee Golf Course Area (250+ homes affected) and work with FEMA to update FIRMs covering later phases possibly in floodplains.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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STAPLEE Criteria	(So	cial)	(Ted	chnic	al)	(Adn	ninist	rative)	(P	olitic	al)		(Lega	ıl)		(Eco	nomi	c)		(Eı	nviron	mental)	
$ \begin{array}{c} \textbf{Considerations} \rightarrow \\ \textbf{for} \\ \textbf{Alternative Actions} \\ \downarrow \end{array} $	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #15 (formerly #16): Make improvements to roadway and drainage on roads affected by 2009 floods in Pierce County including Yellow Bluff Road, Voight Bridge Road, Turkey Ridge Road, Bell Road, Moneyhole Road, Hammock Drive, and in River Woods Subdivision.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Goal #1: Prevent or reduce damage caused by Drought in Pierce County and in the Cities of Blackshear, Offerman and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Drought.

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STAPLEE Criteria		cial)	(Ted	hnic	al)	(Adn		rative)	(Po	olitic	al)		(Lega	ıl)		(Eco	nomic	;)		(Er	viron	mental)	
Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Seek input from State and Federal agencies to enact procedures during Drought to limit water usage in Pierce County and the Cities of Blackshear, Offerman, and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #2: Replace antiquated water & sewer lines and equipment prone to failure in unincorporated Pierce County and in the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #3: Work with County Extension Agent to distribute literature related to best management practices in Pierce County and the Cities of Blackshear, Offerman, and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #4: Promote increased usage of surface water and surface artesian flow for agriculture and industry instead of well systems in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+
Action Step #5: Promote the installation of private water systems instead of individual wells in Pierce County.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Action Step #6: Promote the paid extension of city water lines into areas of individual wells and/or new subdivisions in the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Goal #1: Prevent or reduce damage caused by Severe Winter Storms in Pierce County and the Cities of Blackshear, Offerman, and Patterson.

Objective #1: *Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, due to Severe Winter Storms.*

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Continue the policy of wrapping exposed piping with insulation and installing new insulation layers at Critical Facilities in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A		N/A	N/A	N/A
Action Step #2: Maintain temperatures above 32 degrees to prevent freezing in government-owned occupied and unoccupied structures in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #3: Identify solutions for heating unmanned fire stations and preventing the freezing of water tanks in the fire vehicles in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #4: Disseminate information to the public concerning Severe Winter Storms and champion new construction being built to appropriate low temperature ratings and existing structures being retrofitted in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.	+ 4		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

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Goal #1: Prevent or reduce damage caused by Wildfire in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, and woodlands due to Wildfire.

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1 (formerly #2): Provide additional first responder training, air units, air unit chargers, Class A Pumper & Fire Knocker trucks, and other equipment to all Pierce County Volunteer Fire Departments for Wildfire use.	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+				N/A	N/A
Action Step #2 (formerly #3): Provide additional first responder training, air units, air unit chargers, Class A Pumper & Fire Knocker trucks, and other equipment to City of Blackshear Volunteer Fire Departments for Wildfire use.	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+					N/A
Action Step #3 (formerly #4): Provide additional first responder training, air units, air unit chargers, Class A Pumper & Fire Knocker trucks, and other equipment to City of Patterson Volunteer Fire Departments for Wildfire use.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #4 (formerly #5): Trim tree lines and create fire buffers around critical facilities and infrastructure in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				N/A	N/A
Action Step #5 (formerly #6): Encourage agencies and private property owners to trim tree lines and create fire buffers around new and existing homes, businesses, and utilities in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #6 (formerly #7): Support and enforce GA Forestry Commission burn ordinances and bans and promote hazardous fuel reduction by prescribed burning, mechanical treatment, or chemical treatment carried out and promoted by the GA Forestry in Pierce County and the Cities of Blackshear, Offerman, and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

STAPLEE Criteria		S cial)	/Too	T hnic	al)	A (Administrative)			(D	P (Political)			L (Lega	ın.	E (Economic)				E (Environmental)					
Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	ong-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / A	Political Support	ocal Champion	Public Support	^		Potential Legal Challenge	_	Cost of Action	Contributes to Economic Goals		Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws	
Action Step #7 (formerly #8): Pierce County and the Cities of Blackshear, Offerman and Patterson should become "Firewise" Communities and conduct "How to Have a Firewise Home" workshops for residents and community leaders.	+	+	+	+	+	+	+	+		+			+	+	+	+		+		N/A			N/A	
Action Step #8 (formerly #9): Identify fire coverage areas in Pierce County and the Cities of Blackshear, Offerman and Patterson, reevaluate and possibly relocate stations to more strategic locations for full benefit of fire coverage and fire rating.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	
Action Step #9 (formerly #10): Plan to acquire property for the new addition of Pierce County Volunteer Fire Stations including Otter Creek District, 911/Central Fire Station, Cason/Hackelbarney Area and others.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws	
Action Step #10 (formerly #11): Plan to make modifications to existing Pierce County and the Cities of Blackshear, Offerman and Patterson Volunteer Fire Stations as needed.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				N/A	N/A	
Action Step #11 (formerly #12): Identify funding sources and plan for a full time paid fire department in Pierce County.	+	+	+	+	+	+	+	+		+			+	+	+	+		+				N/A	N/A	
Action Step #12 (formerly #13): Purchase shower equipment, containment area, suits and rigs for exposure to chemicals and other hazardous materials while fighting fires in agricultural areas in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	

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Considerations → for Alternative Actions	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws	
Action Step #13 (formerly #14): Pass a subdivision ordinance in Pierce County and the Cities of Blackshear, Offerman and Patterson requiring that any subdivision over X number of lots requires 500 GPM capacity water pressure and fire hydrants.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			N/A	N/A	N/A	
Action Step #14 (formerly #15): Conduct a tree survey on Pierce County and the Cities of Blackshear, Offerman and Patterson right-of- ways to locate diseased and damaged trees in order to reduce available fuel.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	
Action Step #15 (formerly #16): Continue to update the Volunteer Fire Department Master Plans as needed.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A	

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Wildfire in Pierce County and in the Cities of Blackshear, Offerman, and Patterson.

Objective #2: Implement priorities, projects and recommendations contained in GA Forestry Commission's "Community Wildfire Protection Plan".

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	-	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	,	Existing Local Authority		Benefit of Action			Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	ZMAT	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Create a minimum of 30 feet of defensible space around all governmental structures and recommend to homeowners & community stakeholders that they create same space through the trimming of shrubs and vines, overhanging limbs, replacement of flammable plants with less flammable varieties and remove vegetation around chimneys.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			N/A				N/A
Action Step #2: Reduce structural ignitability by cleaning flammable vegetative materials from roofs and gutters, store firewood appropriately, install skirting around raised structures, store water hoses for easy access and replace pine straw and mulch around plantings with less flammable landscaping materials around all governmental structures and recommend same to homeowners and community stakeholders.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A				N/A

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Action Step #3: Work with GA Power and EMCs to encourage new underground service to rural homes; Adopt standards for safety zone around propane distribution tanks.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #4: Ensure Driveway Access/Right-Of- Way Clearance by maintaining vertical and horizontal clearance for emergency equipment; See that adequate lengths of culverts are installed to allow emergency vehicle access.	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+			N/A		N/A
Action Step #5: As roads are upgraded, widen to minimum standards with at least 50 foot diameter cul-de-sacs or turn arounds.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Action Step #6: Amend and enforce existing building codes as they relate to skirting, propane tank locations, public nuisances (trash/debris on property), property address marking standards and other relevant concerns; Review the need for subdivision and development ordinances for public safety concerns; Adopt and enforce uniform addressing ordinance.	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+		N/A				N/A
Action Step #7: Work with local law enforcement to better control non-essential traffic during fire emergencies.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #8: Encourage prescribed burning for private landowners and industrial timberlands particularly adjacent to residential areas; Seek grants for mowing or prescribed burning in WUI areas.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Action Step #9: Encourage railroads to better maintain their ROW eliminating brush and grass through herbicide and mowing; Maintain firebreaks along ROW adjacent to residential areas.		_	_	_	_		_	_		1			_								NI/A		N/A
Action Step #10:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Clean and re- harrowing of existing fire lines.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #11 (formerly #13): Improve road signage at crossroads; Add "Dead End" and "No Outlet" signs to road posts.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #12 (formerly #14): Ensure that all personnel are trained in Wildfire Suppression.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #13 (formerly #17): Conduct a Spring Clean-up Event every Spring.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A
Action Step #14 (formerly #18): Develop and distribute Firewise informational packets to be distributed by realtors & insurance agents.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	ong-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	ocal Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	_		Contributes to Economic Goals		Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental	Consistent With Federal Laws
Action Step #15 (formerly #19): Create and Exhibit a Wildfire Protection Display for the general public at the local events such as the Pecan Festival (Display can be independent or combined with the GA Forestry Commission display); Hold open houses at individual fire stations to promote community Firewise safety and develop community support and understanding of local fire departments and current issues.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				N/A	N/A
Action Step #16 (formerly #20): Invite local news media to community "Firewise" functions for news coverage and regularly submit press releases documenting wildfire risk improvements in Pierce County.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #17 (formerly #21): Create a Pierce County Wildland- Urban Interface (WUI) Fire Council to review progress towards mitigation goals, appoint & delegate special activities, work with Federal, State and Local officials to assess progress and develop future goals & action plans and work with residents to implement projects and Firewise activities.		+	+	+	+	+	+		+		+	+		+		+	+		N/A	N/A	N/A	N/A	N/A

Worksheet #4 Evaluate Alternative Mitigation Actions

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Hurricanes/Tropical Storms in Pierce County and in the Cities of Blackshear, Offerman and Patterson.

Objective #1: Minimize losses to existing and future structures, especially Critical Facilities and Infrastructure, and the public, due to Hurricanes/Tropical Storms.

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Design new educational facilities to the level that they could be used as public shelters for emergency purposes and test current shelters and educational facilities for safety and effectiveness in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+		+			+	+	+	+	+	+		N/A			N/A
Action Step #2: Purchase a storage trailer and construct a storage building for storage of emergency supplies needed for shelters and buy additional materials and/or relocate materials from Brunswick for shelters in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

STAPLEE Criteria	,	S		Т			Α			Р			L				E				E		
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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #3: Review building codes, local ordinances and policies & procedures regarding pre-disaster mitigation issues and streamline those items for easier enforcement in Pierce County and the Cities of Blackshear, Offerman and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			N/A		N/A
Action Step #4: Work with GDOT to improve unsafe roads in Pierce County and the Cities of Blackshear, Offerman and Patterson that already are, or could be, evacuation routes.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					N/A
Action Step #5: Cut made to fit plywood window covers and install construction materials necessary for use during Hurricanes/Tropical Storms at Critical Facilities in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Worksheet #4 Evaluate Alternative Mitigation Actions

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Goal #1: Prevent or reduce damage caused by Hurricanes/Tropical Storms in Pierce County and in the Cities of Blackshear, Offerman and Patterson.

Objective #2: Advise the public of health & safety precautions and procedures necessary during Hurricanes/Tropical Storms and

other events and on pre-disaster mitigation, in general.

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Considerations → for Alternative Actions ↓	Community Acceptance	Effect on Segment of Population	Technical Feasibility	Long-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	Local Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Acquire and distribute literature from state agencies regarding disaster health & safety issues in Pierce County and the Cities of Blackshear, Offerman and Patterson.		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				N/A	N/A
Action Step #2: Distribute information concerning predisaster mitigation to area news markets and by speaking at schools and civic clubs in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Worksheet #4 Evaluate Alternative Mitigation Actions

- 1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).
- 2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.
- 3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

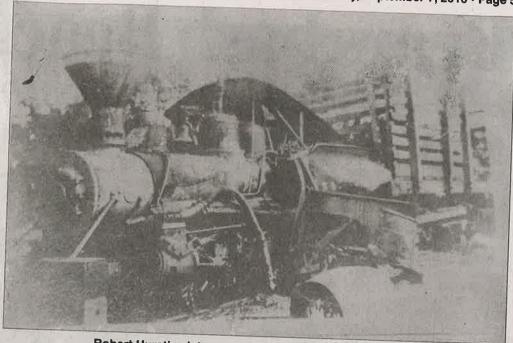
When you complete the scoring; negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal #1: Prevent or reduce damage caused by Hurricanes/Tropical Storms in Pierce County and in the Cities of Blackshear, Offerman and Patterson.

Objective #3: Ensure reliable electrical power and communications efficiency at facilities and among agencies during Hurricanes/Tropical Storms and other events..

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$ \begin{array}{c} \textbf{Considerations} \rightarrow \\ \textbf{for} \\ \textbf{Alternative Actions} \\ \downarrow \end{array} $	Community Acceptance	Effect on Segment of Population	Technical Feasibility	ong-term Solution	Secondary Impacts	Staffing	Funding Allocated	Maintenance / Operations	Political Support	ocal Champion	Public Support	State Authority	Existing Local Authority	Potential Legal Challenge	Benefit of Action	Cost of Action	Contributes to Economic Goals	Outside Funding Required	Effect on Land / Water	Effect on Endangered Species	Effect on HAZMAT / Waste Sites	Consistent with Community Environmental Goals	Consistent With Federal Laws
Action Step #1: Purchase generators and trailers for use at critical facilities and pre-wire facilities & gas pumps for generator use in Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	<u> </u>		+			+	+	+	+	+	+		шш б		N/A	N/A
Action Step #2 (formerly #3): Purchase communications equipment (radios, pagers, batteries, chargers, etc.) that comply with new FCC narrow banded requirements for Pierce County and the Cities of Blackshear, Offerman and Patterson.	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N/A	N/A	N/A	N/A	N/A

Appendix E



Robert Hurst's pictures of a locomotive on Billy's Island.

y's Island has a rich history

Okefenokee fell prey to numerous moonshining operations; because of this illegal business, many timber workers operating heavy machinery became drunken or hung-over victims.

John Hopkins, who became manager of the 219,500 acres of land purchased by Charles C. and Daniel Hebard from the Suwannee Canal Company, saw the danger involved in this action. He, setting an example, destroyed several of these stills around Billy's Island; his continued devo-

tion to the Swamp gained him a reputation as a "true friend of the Okefenokee." It was at this time, in the late 1920s, a resurgence of campaigns to preserve the Swamp appeared, tells Lois B. Mays in her Settlers of the Okefenokee.

PUBLIC NOTICE

The Pierce County Emergency Management Agency (EMA) invites the public to attend the kick-off meeting for planning and updating our local Hazard Mitigation Plan. This plan is renewed every five (5) years. We would welcome any input from our citizens and local business owners. Some of those who will be part of the planning group will be: Planning specialist from GEMHSA (Georgia Emergency Management and Homeland Security Agency), Board of County Commissioners, Cities of Blackshear, Offerman, and Patterson, Fire/EMS, Sheriff's Department, Police Departments, Health Department, Code Enforcement, Public Works, Forestry, School Board, Coastal Pines, and hopefully... you. The meeting will be for an hour on Tuesday, September 20th at 10:00 a.m. at 312 Nichols St. in the Commissioner's office Conference Room.

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Blackshear Community





Pierce County EMA/FIRE

309 Pierce Industrial Blvd., P.O. Box 421, Blackshear, GA 31516
Phone: (912)449-2040 Fax: (912)807-0573
Leonard Roberts, EMA/FIRE Director
leonard.roberts@piercecountyga.gov

Sign in Sheet For Hazard Mitigation meeting Sept.20 2016
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Ind Daniels City of Offerman offerman a Access ATC. Net
Steri Smit Lity of Patterson ssweat atc.cc
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James Spiver Pierce County FINS JAMES Spiver to pierce country of you
Amy Hitt Pierce County amy hittepierce countyga go
- Stephance Bell Vierce Wrinty piercete@amail.com
Dell BROWN PIERCE Course Joing Phonony Comm. dell. brown of pience Country Born KS GFC Hoanks@gFc. state.ga. us gg.
Tommy Banks GFC + banks@gfc.state.ga.us 99.
Jim Durrance Georgia Forestry Commission J Durrance ofc. State. ga. us
Ariel Godwin SGRC agodwin Esgreid
OHUS WHIGHT BLACKSHEAL PA) CWight@blackshearpolice.org
Bucky Goble Blackshear Fire buckygoble Egmall.com

Southern Georgia Regional Commission Pierce County Hazard Mitigation Plan Update Workshop 1 – Nov. 9, 2016

Name	<u>Organization</u>	<u>Title</u>	Email
Janut Daniels	City of Offernan	City Clerk	offermand Access ATC. Net
Brenda Denism	ofternan	Mayor	Offermana accessate. net.
Budy Coble	BFD	chul	bulygoble a gmail . 10 m
Jumes Spiver	PCENS	Director	Jamospives @ picrecounty 94. 700
DELL BROWN	PCJPC	DIRECTOR	dell. boun apierce countyge
Leonard Robert	Pierce EMA	Prector	leonard, robeits Opierce countygg, gov
Steve Layson	P.C. BOC		
Sephanie Bell	PC Family Conn	Weetn	pierce fc @ amail.com
Arlel Godula	SGRK	Planner	pierce fc @ gmail.com
_			

Southern Georgia Regional Commission Pierce County Hazard Mitigation Plan Update Workshop 2 – Jan. 11, 2017

<u>Name</u>	<u>Organization</u>	<u>Title</u>	<u>Email</u>
Ariel Godwin	5GRC	Planner	agoduin @ sgrc. w
Pell BROWN	PCJPC	Planning Director	dell. bown Decaceountygg
A.J.GoiFFIS	Road Dept	Road DepT	,
Leonard Roberts	Pierce EMA	EART Rector	lourerd, roberts @prece countyse. sou
Stevie Sweat	Patterson-Fire & Publiches	& Sugt.	ssweat@atc,cc
Janet Daniels	City of Offerman	City Clerk	Offerman a Access ATC. Net
Bus Derm	City as Offerman	Mayor	ofternante accessationel
Sophanie Bell	Pierce County Family Conn.	Director	
JAMES Spiver	Piene Ems	Director	Jamespine Diercontisa 300
Bucky Coble	Blackshar Fine		budy godhogmast.com
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Southern Georgia Regional Commission Pierce County Hazard Mitigation Plan Update Workshop 3 – Feb. 8, 2017

Name	<u>Organization</u>	Title	Email
Brenda Jun	Offen	Mayor	Ofteman accessato.1.
Janet Daniels	City of offerm	City Clerk	Offerma, a AccessATC. Net
Stine Sweat	City of Patterson	Public Works & King	
A.J.GriFFis	Road Dept.	Road superenent	
Ariel Godwin	SGRC	Planer	a godwh Ergrens
Stephanie Bell	PLEACE COUNTY JOHNT Planams	Director	pierce fa @ gmail.com
DELL BROWN	PIERCE County JOHNT Planams	DRELTUR	dell. born a prever county 99. g.
Steve Layson	PCBOC		Steve layson a pierce countyga, gov
CHRIS WRIGHT	CITY OF BLACKSHEAR (PD)		Cwrighte blackshear police.org
Leonard Roberts	Pierce EMA	EMA Prestor	lanard roberts affere count go, gov
			, ,,,,

Southern Georgia Regional Commission Pierce County Hazard Mitigation Plan Update Workshop 4 – May 16, 2017

Name	<u>Organization</u>	<u>Title</u>	<u>Email</u>
Leonard Roberts	Pierce Co EMA/Fire	Prector	leurend, tobests@place countrese.gov
Loretta Hylton	SGRC	Planner	/hy/tonosgrc.us
Bucky 605le	Blacksheme Fine	Chist	buday goblea g mail, com
Janet Daniels	City of Offerman	City Clerk	Offerman 2 Access ATC. Not
Brender Denison	City of Offerman	Mayor	Offerman@ accessate.n. L
Stophanie Bell	Pierce County Family Conn	Director	piercele @ gmail.com
Stevie Sweat	Cityof Patterson	Supt Fire	ssweateate.cc
Dell BROWN	PIERCE CONNY JUINT Planning Con	m. Director	dell. brown Dpience County gg. go
* *		F	

Southern Georgia Regional Commission Pierce County Hazard Mitigation Plan Update Workshop 5 – June 21, 2017

<u>Name</u>	Organization	<u>Title</u>	<u>Email</u>
Leanand Roberts	Pierce EMA	Drech	toward labet Opiera work 57. 00
Bucky Goble	Blacksher Fire	Chief	bucky goble a good com
Janet Daniels	City of Offerman	City Clark	Offerman D Access ATC. Net
Brenda Denisa	city of otherman	Mayor	cofferman @accessate.net.
Stevie Sweat	City of Patterson	PublicWork-Fire	ssweat@atc.cc
DELMAN (DELL) BROWN		DiRector	dell. brown a Pleace country gg. 5.
Ariel Godwin	SGRC	Planner	agodwin & Sgrc.us
	8		
			8

ians turned mber to sup-J. Turner at her daugheree Benboe bbins. They en one of us and that's ay. Keep the er, brighter Love you.

y of Randy ep the faith. p. Weeping a night, but morning. Please don't forget, we still have many sick ad shutins. Give them a call, visit or send a cheery note. They'll feel better, so will you. Pray for Sis. Hortense Brewton. She's at home recuperating. Lend a helping hand if you can.

Visit a church of your choice every Sunday. Lend a helping hand to those in need and do pray for and love one another as He has loved you.

Thought – We're in this together.

observes Easter

ly morning was held end Vance tate pastor/ reaching.

early sers Sunday even o'clock

gham, piaprelude. He ohn Dupont e congregaannounce-

wards read Earlisteen ntitled "An s as follows:

Story"
vondrous
ill,
at love
en.
t put in

y, ction plan. Thy love

st, Lamb, he cross of hill, e full price ien.

s love ny. hat love God gave His only
begotten Son,
Absolutely at peace and joy
within His love.

Easter is love in harmony. Whoever believeth in Him Shall have eternal life Right now being washed from all my sin.

Easter is love in harmony.

No deeper love will be!

"For God so loved the world"

As He died to revive us

and set us free.

Then, Bob Edwards led the congregation in singing "Christ Has Risen Today." As the offertory special music, Chris Smith sang, "You Saved the Day." Afterwards, the choir presented the Easter musical, "Victory."

The message for the day was preached by the Reverend R.C. James. The title of the message was "What a Difference a Few Days Makes" with the scripture taken from Mark: 16:1-8. The points of the message were (1) "A Ministry of Love," (2) "A Message of Life," and (3) "A Mission of Liberation."

The Reverend R.C. James gave the invitation, and the congregation sang, "Let Jesus Come Into Your Heart," followed by the benediction.

either Joe Gant or Misty Strickland.

Historical Society to meet in Nahunta

The Brantley County Historical Society will meet Friday, Apr. 20, at 10:30 a.m. at Shanes Kitchen in Nahunta.

All members are urged to attend. Visitors are welcome.

WOW work day to replace annual fish fry

The Woodmen of the World annual fish fry scheduled for Saturday, Apr. 21 at 5 p.m. has been cancelled. Instead a work day has been scheduled for Saturday, April 21 at 8 a.m. to clean the building and the yards.

Everyone bring yard tools. Also bring snacks and desserts to go with hotdogs and hamburgers which will be provided by the Chapter Hall.

For additional information call Alex Bennett, President 283-8885.



PUBLIC NOTICE

The Pierce County Emergency Management Agency (EMA), in cooperation with the Southern Georgia Regional Commission (SGRC), invites the public to attend a Joint Public Hearing to review the Pierce County and Cities of Blackshear, Offerman, and Patterson Hazard Mitigation Plan Update and provide an opportunity for public comment. The plan update has been developed in accordance with the Disaster Mitigation Act of 2000, which requires local governments to have an approved Hazard Mitigation Plan addressing natural hazards as a condition of receiving future federal disaster assistance. The SGRC staff will host a Public Hearing/Open House on May 1, 2018 at 5:30 PM at 705 College Ave., Board Meeting Room, Blackshear, GA 31516. Comments are being accepted by email at agodwin@sgrc.us, by fax at 229-333-5312, or by mailing them to Pierce HMP, 327 W. Savannah Ave., Valdosta, GA 31601. The draft of the Plan is available on the SGRC website, www.sgrc.us. For more information please call Ariel Godwin, Senior Planner at 229-333-5277.

Shorry Arrel

Pierce County and Cities of Blackshear, Offerman, and Patterson Hazard Mitigation Plan Update – Final Public Hearing

Date: May 1, 2018

Name	<u>Organization</u>	Title	Email
Ariel Godwin	SGRC	Planner	agodula Osgre.us
NENC Bennett	Pc Boc	Chairman	
Jason Rubenbauer	PCBOC	Manager	
Leen Ph S	EMA/File	Derector	
Jan Kronz	Pune Ext.		
Algende Amile			
Charles 6			
And Hitt	PCBOC	Clerk	amy hittepierce countyga gov
Franklin Rozier	TI PCBOC		fdrozier @bellsooth.net
Laniebalke	PCBOC	Commissioner	
The Shat	P.C.B.O.Comm	Comm	County E.
Lunde H. Aceie, J.	RGBO,C	15t Dist. Commission	er haroldrozier@accessate.net.

RESOLUTION FOR ADOPTION OF PIERCE COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE

WHEREAS, to be eligible for federal disaster assistance in the event of a presidentially declared disaster and mitigation assistance under the Hazard Mitigation Grant programs, local governments must have adopted or be actively developing a Hazard Mitigation Plan prepared in accordance with federal regulations promulgated pursuant to the Disaster Mitigation Act of 2000 ("the Act"); and

WHEREAS, Pierce County and the Cities of Blackshear, Offerman, and Patterson, adopted the previous Pierce County Hazard Mitigation Plan Update in 2013; and

WHEREAS, in accordance with the requirements of the Act, an updated plan is required to be submitted to FEMA through GEMA every five years; and

WHEREAS, the 2013 Plan Update will expire on December 11, 2018 and the new Hazard Mitigation Plan Update will become effective on December 12, 2018; and

WHEREAS, the Pierce County Emergency Management Agency, with the assistance of representatives from various other departments within Pierce County and the Cities of Blackshear, Offerman, and Patterson, as well as volunteer and other non-governmental agencies, has developed an updated plan to meet these requirements; and

WHEREAS, the updated plan is titled the "Pierce County and Cities of Blackshear, Offerman, and Patterson 2018-2023 Hazard Mitigation Plan Update" (referred to hereafter as "the Plan"); and

WHEREAS, the Plan applies to unincorporated Pierce County and the Cities of Blackshear, Offerman, and Patterson; and

WHEREAS, GEMA has notified the Pierce County Emergency Management Agency that the Plan satisfies the requirements of the Act;

BE IT THEREFORE RESOLVED that Pierce County, meeting in regular session, hereby adopts the Plan.

SO RESOLVED this __1st__ day of _May_, 2018.

By.

Neal Bennett

County Commission Chair

Attest

Amy Hitt County Clerk

RESOLUTION 2018-07

A RESOLUTION OF THE BLACKSHEAR CITY COUNCIL OF THE CITY OF BLACKSHEAR, GEORGIA PURSUANT TO THE DISASTER MITIGATION ACT 0F 2000 AUTHORIZING ADOPTION OF THE PIERCE COUNTY AND THE CITIES OF BLACKSHEAR, OFFERMAN, AND PATTERSON HAZARD MITIGATION PLANAND PROVIDE FOR AN EFFECTIVE DATE.

WHEREAS, Pierce County and its municipal governments are required to complete a Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Pierce County and its municipal governments have completed a Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW, THEREFORE, BE IT RESOLVED BY THE BLACKSHEAR CITY COUNCIL OF THE CITY OF BLACKSHEAR, GEORGIA, THAT:

SECTION ONE. The Blackshear City Council hereby adopts this Hazard Mitigation Plan.

SECTION TWO. This Resolution shall take effect immediately upon passage.

ADOPTED this 13th day of March, 2018.

ATTEST:

CITY OF BLACKSHEAR

SUSAN FOWLER

City Clerk

RICHARD LARSON

Mayor

A RESOLUTION OF THE CITY OF OFFERMAN CITY COUNCIL PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE PIERCE COUNTY PRE-DISASTER HAZARD MITIGATION PLAN

WHEREAS, Pierce County and its municipal governments are required to complete a Pre-Disaster Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Pre-Disaster Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Pierce County and its municipal governments have completed a Pre-Disaster Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT THE CITY OF OFFERMAN COUNCIL FORMALLY ADOPTS THIS PRE-DISASTER HAZARD MITIGATION PLAN.

RESOLVED THIS 22 DAY OF May 2018

Signed: Brenda Denison, Mayor

(City Seal)

Attest: Janet Daniels / County Clerk

A RESOLUTION OF THE CITY OF PATTERSON CITY COUNCIL PURSUANT TO THE DISASTER MITIGATION ACT OF 2000 AUTHORIZING ADOPTION OF THE PIERCE COUNTY PRE-DISASTER HAZARD MITIGATION PLAN

WHEREAS, Pierce County and its municipal governments are required to complete a Pre-Disaster Hazard Mitigation Plan by the Disaster Mitigation Act of 2000; and

WHEREAS, under the provisions of the Disaster Mitigation Act of 2000, local governments that complete Pre-Disaster Hazard Mitigation Plans will remain eligible for Federal mitigation funding; and

WHEREAS, Pierce County and its municipal governments have completed a Pre-Disaster Hazard Mitigation Plan that fulfills the Federal requirements of the Disaster Mitigation Act of 2000.

NOW THEREFORE LET IT BE RESOLVED THAT THE CITY OF PATTERSON COUNCIL FORMALLY ADOPTS THIS PRE-DISASTER HAZARD MITIGATION PLAN.

RESOLVED THIS / O DAY OF Mey, 2018

Signed: R. D. Thomas, Jr., Mayor

Attest: Ray Cunningham / City Clerk

(City Seal)

Appendix F

Search Results for Pierce County, Georgia

Event Types: Thunderstorm Wind

88 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	73
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	1
Number of Days with Event and Property Damage:	27
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Wind Magnitude Definitions:

Measured Gust: 'MG', Estimated Gust: 'EG', Measured Sustained: 'MS', Estimated Sustained: 'ES'

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

<u>Location</u>	County/Zone	St.	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	3	284.30K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/26/1956	14:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/08/1974	12:05	CST	Thunderstorm Wind	56 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	05/01/1976	02:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	08/12/1976	12:15	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/17/1983	13:45	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/05/1983	17:45	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/22/1983	14:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/06/1985	16:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/06/1985	16:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/19/1985	18:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/13/1986	15:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/18/1986	17:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/21/1986	16:20	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/25/1987	15:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	11/05/1988	04:30	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/03/1991	05:25	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	05/05/1991	18:45	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/04/1991	19:00	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/15/1991	18:00	CST	Thunderstorm Wind	0 kts.	0	3	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	07/16/1991	15:10	CST	Thunderstorm Wind	0 kts.	0	0	0.00K	0.00K
Blackshear	PIERCE CO.	GA	10/30/1993	06:30	EST	Thunderstorm Wind	0 kts.	0	0	50.00K	0.00K
Blackshear	PIERCE CO.	GA	06/09/1994	16:45	EST	Thunderstorm Wind	0 kts.	0	0	5.00K	0.00K
Blackshear	PIERCE CO.	GA	06/25/1994	12:15	EST	Thunderstorm Wind	0 kts.	0	0	5.00K	0.00K
<u>Bristol</u>	PIERCE CO.	GA	07/25/1995	18:30	EST	Thunderstorm Wind	0 kts.	0	0	2.00K	0.00K
<u>PATTERSON</u>	PIERCE CO.	GA	02/15/1996	18:55	EST	Thunderstorm Wind	60 kts.	0	0	1.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/08/1996	15:00	EST	Thunderstorm Wind	60 kts.	0	0	0.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/23/1997	15:10	EST	Thunderstorm Wind		0	0	0.80K	0.00K

/6/2017	Storm Event	s Dat	abase - Search	Results	Nationa	al Centers for Environment	tal Information				
BLACKSHEAR	PIERCE CO.	GA	05/04/1998	12:30	EST	Thunderstorm Wind		0	0	1.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/08/1998	13:55	EST	Thunderstorm Wind		0	0	1.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/05/1998	21:10	EST	Thunderstorm Wind		0	0	3.00K	0.00K
HOMESTEAD	PIERCE CO.	GA	06/19/1998	17:45	EST	Thunderstorm Wind		0	0	1.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/27/1998	13:30	EST	Thunderstorm Wind		0	0	0.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	07/03/1998	19:05	EST	Thunderstorm Wind		0	0	2.50K	0.00K
BRISTOL	PIERCE CO.	GA	07/31/1998	18:15	EST	Thunderstorm Wind		0	0	2.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	01/02/1999		EST	Thunderstorm Wind		0	0	4.50K	0.00K
BRISTOL	PIERCE CO.	GA	06/30/1999	18:00	EST	Thunderstorm Wind		0	0	0.50K	0.00K
BONNYMAN	PIERCE CO.	GA	03/16/2000	16:25	EST	Thunderstorm Wind		0	0	0.50K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/04/2000	16:21	EST	Thunderstorm Wind		0	0	0.50K	0.00K
BLACKSHEAR	PIERCE CO.	_	07/30/2001	16:33	EST	Thunderstorm Wind		0	0	0.50K	0.00K
PATTERSON	PIERCE CO.	_	05/10/2002	18:30	EST	Thunderstorm Wind		0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	05/10/2002		EST	Thunderstorm Wind		0	0	1.00K	0.00K
OFFERMAN	PIERCE CO.	GA	10/21/2002		EST	Thunderstorm Wind		0	0	60.00K	0.00K
OFFERMAN OFFERMAN	PIERCE CO.	GA	10/21/2002		EST	Thunderstorm Wind		0	0	100.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	10/21/2002		EST	Thunderstorm Wind		0	0	100.00K	0.00K
BRISTOL	PIERCE CO.	GA	12/24/2002			Thunderstorm Wind		0	0	10.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	02/22/2003	12:00	EST	Thunderstorm Wind	60 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	05/02/2003	23:30	EST	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
		_		14:40	EST			-	1	0.00K	
PATTERSON PLACKEUEAR	PIERCE CO.	_	07/15/2004			Thunderstorm Wind	50 kts. EG	0	0		0.00K
BLACKSHEAR	PIERCE CO.	_	07/15/2004	17:00	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	03/22/2005		EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	06/23/2005			Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/10/2006	20:10		Thunderstorm Wind	58 kts. EG	0	0	0.00K	0.00K
COUNTYWIDE	PIERCE CO.	GA	05/10/2006	20:15	EST	Thunderstorm Wind	55 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/28/2006	15:39	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	07/27/2006	18:28	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	_	07/27/2006	18:30	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	_	08/04/2006	14:15	EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	09/07/2006		EST	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	12/25/2006		EST-5	Thunderstorm Wind	50 kts. EG	0	0	10.00K	0.00K
BRISTOL	PIERCE CO.	_	07/20/2007		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
OWEN	PIERCE CO.		07/21/2007		EST-5	Thunderstorm Wind	52 kts. MG	0	-	0.00K	0.00K
PATTERSON	PIERCE CO.	_	07/28/2007		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	_	08/11/2007		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	_	05/11/2008		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON STRIP ARPT	PIERCE CO.	GA	05/11/2008		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
<u>MERSHON</u>	PIERCE CO.	GA	06/02/2008	17:00	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BYNUM	PIERCE CO.	GA	06/11/2008	16:25	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMESTEAD	PIERCE CO.	GA	12/11/2008		EST-5	Thunderstorm Wind	45 kts. EG	0	0	5.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	04/05/2009	14:40	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
<u>BLACKSHEAR</u>	PIERCE CO.	GA	04/05/2009	14:49	EST-5	Thunderstorm Wind	61 kts. EG	0	0	0.00K	0.00K
<u>PATTERSON</u>	PIERCE CO.	GA	05/21/2010	16:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
<u>MERSHON</u>	PIERCE CO.	GA	05/21/2010	16:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
<u>OFFERMAN</u>	PIERCE CO.	GA	05/21/2010	16:46	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMESTEAD	PIERCE CO.	GA	06/13/2010	15:25	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/20/2010	16:50	EST-5	Thunderstorm Wind	45 kts. EG	0	0	2.00K	0.00K
<u>OWEN</u>	PIERCE CO.	GA	04/21/2012	15:18	EST-5	Thunderstorm Wind	52 kts. EG	0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	04/21/2012	15:32	EST-5	Thunderstorm Wind	50 kts. EG	0	0	2.00K	0.00K
MERSHON_	PIERCE CO.	GA	06/04/2012	13:30	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	06/04/2012	13:33	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	06/04/2012		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	04/14/2013		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
OFFERMAN	PIERCE CO.	GA	06/10/2014		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/24/2014		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/17/2015		EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
HOMESTEAD	PIERCE CO.		06/17/2015		EST-5	Thunderstorm Wind	50 kts. EG	0	-	0.00K	0.00K
		1 -, (, , , , , , , , , , , , , , , , , , , ,	1 . 5.55	•		1		1	12.20.	

BONNYMAN	PIERCE CO.	GA	02/24/2016	06:20	EST-5	Thunderstorm Wind	40 kts. EG	0	0	0.50K	0.00K
<u>MERSHON</u>	PIERCE CO.	GA	04/01/2016	17:06	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/17/2016	19:59	EST-5	Thunderstorm Wind	50 kts. EG	0	0	0.00K	0.00K
Totals:								0	3	284.30K	0.00K

Search Results for Pierce County, Georgia

Event Types: Tornado

13 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	12
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	4
Number of Days with Event and Property Damage:	7
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Select: All Tornadoes ▼ Sort By: Date/Time (Oldest)									e (Oldest) ▼		
<u>Location</u>	ocation County/Zone		<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	Type	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	32	3.376M	0.00K
PIERCE CO.	PIERCE CO.	GA	06/19/1972	12:55	CST	Tornado	F1	0	1	25.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/16/1976	10:30	CST	Tornado	F2	0	0	250.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	02/10/1986	22:15	EST	Tornado	F1	0	0	2.500M	0.00K
PIERCE CO.	PIERCE CO.	GA	02/10/1986	22:30	EST	Tornado	F1	0	7	250.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	03/03/1991	05:30	EST	Tornado	F1	0	20	0.00K	0.00K
<u>Bristol</u>	PIERCE CO.	GA	11/07/1995	17:34	EST	Tornado	F1	0	4	300.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	01/02/1999	16:10	EST	Tornado	F0	0	0	35.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/04/2000	16:21	EST	Tornado	F0	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	07/07/2000	16:25	EST	Tornado	F0	0	0	5.50K	0.00K
BRISTOL	PIERCE CO.	GA	12/24/2002	11:45	EST	Tornado	F0	0	0	10.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	12/11/2008	09:55	EST-5	Tornado	EF0	0	0	0.00K	0.00K
<u>BYNUM</u>	PIERCE CO.	GA	12/02/2009	15:15	EST-5	Tornado	EF2	0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	12/24/2014	12:50	EST-5	Tornado	EF1	0	0	0.00K	0.00K
Totals:								0	32	3.376M	0.00K

Search Results for Pierce County, Georgia

Event Types: Hail

33 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	24
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Select: All Hail Sort Bv: Date/Time (Oldest) ▼

Select: All Hall							- 30	л с Бу	. [D	ate/ IIme (G	Jidest) ▼
<u>Location</u>	County/Zone	St.	<u>Date</u>	Time	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
PIERCE CO.	PIERCE CO.	GA	06/19/1981	18:25	CST	Hail	0.75 in.	0	0	0.00K	0.00K
Blackshear	PIERCE CO.	GA	01/28/1995	17:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
Alma	PIERCE CO.	GA	07/25/1995	18:13	EST	Hail	0.75 in.	0	0	0.00K	0.00K
<u>Bristol</u>	PIERCE CO.	GA	07/25/1995	18:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/27/1997	13:55	EST	Hail	1.00 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/27/1997	14:20	EST	Hail	1.00 in.	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	10/26/1997	17:40	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/04/1998	13:35	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/04/1998	16:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	05/04/1998	16:45	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	08/22/1999	15:45	EST	Hail	1.00 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	07/16/2000	21:25	EST	Hail	0.88 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/10/2002	18:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
BRISTOL	PIERCE CO.	GA	10/21/2002	15:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
<u>OFFERMAN</u>	PIERCE CO.	GA	10/21/2002	16:00	EST	Hail	1.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	10/21/2002	16:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
<u>BRISTOL</u>	PIERCE CO.	GA	10/21/2002	16:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	07/15/2004	14:40	EST	Hail	1.75 in.	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	06/23/2005	18:00	EST	Hail	0.75 in.	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	05/24/2006	16:55	EST	Hail	0.88 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/25/2006	15:53	EST	Hail	1.75 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	05/28/2006	16:30	EST	Hail	0.75 in.	0	0	0.00K	0.00K
PATTERSON	PIERCE CO.	GA	06/11/2007	15:00	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
PATTERSON STRIP ARPT	PIERCE CO.	GA	07/21/2007	19:24	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
<u>OWEN</u>	PIERCE CO.	GA	07/21/2007	19:35	EST-5	Hail	0.88 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	04/05/2009	14:44	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
<u>PATTERSON</u>	PIERCE CO.	GA	05/16/2009	16:55	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K
<u>OWEN</u>	PIERCE CO.	GA	05/16/2009	17:04	EST-5	Hail	1.25 in.	0	0	0.00K	0.00K
MERSHON	PIERCE CO.	GA	05/21/2010	16:30	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	06/13/2010	15:08	EST-5	Hail	0.75 in.	0	0	0.00K	0.00K

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PATTERSON	PIERCE CO.	GA	03/27/2011	13:33	EST-5	Hail	0.88 in.	0	0	0.00K	0.00K
<u>OWEN</u>	PIERCE CO.	GA	04/21/2012	19:18	EST-5	Hail	1.00 in.	0	0	0.00K	0.00K
<u>MERSHON</u>	PIERCE CO.	GA	06/04/2012	13:30	EST-5	Hail	1.75 in.	0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K

4/6/2017

Search Results for Pierce County, Georgia

Event Types: Flash Flood, Flood

Pierce county contains the following zones:

5 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of Days with Event: Number of Days with Event and Death: Number of Days with Event and Death or Injury: Number of Days with Event and Property Damage: Number of Days with Event and Crop Damage:		
Number of Days with Event and Death: Number of Days with Event and Death or Injury: 0 Number of Days with Event and Property Damage: 2 Number of Days with Event and Crop Damage: 0	Number of County/Zone areas affected:	2
Number of Days with Event and Death or Injury: Number of Days with Event and Property Damage: 2 Number of Days with Event and Crop Damage: 0	Number of Days with Event:	4
Number of Days with Event and Property Damage: 2 Number of Days with Event and Crop Damage: 0	Number of Days with Event and Death:	0
Number of Days with Event and Crop Damage: 0	Number of Days with Event and Death or Injury:	0
, ,	Number of Days with Event and Property Damage:	2
Number of Event Types reported: 2	Number of Days with Event and Crop Damage:	0
	Number of Event Types reported:	2

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By:	Date/Time ((Oldest) ▼	
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									٠,٠) and,	
<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	CrD
Totals:								0	0	35.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	03/01/1998	00:01	EST	Flood		0	0	25.00K	0.00K
COUNTYWIDE	PIERCE CO.	GA	09/29/1998	23:00	EST	Flash Flood		0	0	10.00K	0.00K
COUNTYWIDE	PIERCE CO.	GA	06/12/2001	02:05	EST	Flash Flood		0	0	0.00K	0.00K
<u>OWEN</u>	PIERCE CO.	GA	04/02/2009	10:45	EST-5	Flood		0	0	0.00K	0.00K
BLACKSHEAR	PIERCE CO.	GA	04/02/2009	13:56	EST-5	Flood		0	0	0.00K	0.00K
Totals:								0	0	35.00K	0.00K

Search Results for Pierce County, Georgia

Event Types: Drought

Pierce county contains the following zones:

0 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of County/Zone areas affected:	0
Number of Days with Event:	0
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	0

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

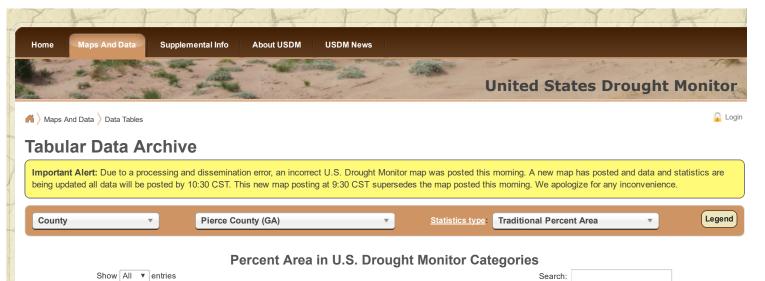
Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) ▼

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K

Tabular Data Archive



Show All ▼ entries					Search:	
Week 📤	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🗳	D4 🗳
2000-01-04	0.00	100.00	100.00	100.00	0.00	0.00
2000-01-11	0.00	100.00	100.00	100.00	0.00	0.00
2000-01-18	0.00	100.00	100.00	100.00	0.00	0.00
2000-01-25	0.00	100.00	100.00	100.00	0.00	0.00
2000-02-01	0.00	100.00	100.00	100.00	0.00	0.00
2000-02-08	0.00	100.00	100.00	100.00	0.00	0.00
2000-02-15	0.00	100.00	100.00	100.00	0.00	0.00
2000-02-22	0.00	100.00	100.00	100.00	0.00	0.00
2000-02-29	0.00	100.00	100.00	100.00	0.00	0.00
2000-03-07	0.00	100.00	100.00	100.00	0.00	0.00
2000-03-14	0.00	100.00	100.00	100.00	0.00	0.00
2000-03-21	0.00	100.00	100.00	100.00	0.00	0.00
2000-03-28	0.00	100.00	100.00	100.00	0.00	0.00
2000-04-04	0.00	100.00	100.00	100.00	0.00	0.00
2000-04-11	0.00	100.00	100.00	100.00	0.00	0.00
2000-04-18	0.00	100.00	100.00	100.00	0.00	0.00
2000-04-25	0.00	100.00	100.00	0.00	0.00	0.00
2000-05-02	0.00	100.00	100.00	0.00	0.00	0.00
2000-05-09	0.00	100.00	100.00	0.00	0.00	0.00
2000-05-16	0.00	100.00	100.00	96.71	0.00	0.00
2000-05-23	0.00	100.00	100.00	96.71	0.00	0.00
2000-05-30	0.00	100.00	100.00	100.00	0.00	0.00
2000-06-06	0.00	100.00	100.00	100.00	0.00	0.00
2000-06-13	0.00	100.00	100.00	100.00	100.00	0.00
2000-06-20	0.00	100.00	100.00	100.00	100.00	0.00
2000-06-27	0.00	100.00	100.00	100.00	99.64	0.00
2000-07-04	0.00	100.00	100.00	100.00	0.00	0.00
2000-07-11	0.00	100.00	100.00	100.00	30.06	0.00
2000-07-18	0.00	100.00	100.00	100.00	0.00	0.00
2000-07-25	0.00	100.00	100.00	100.00	0.00	0.00
2000-08-01	0.00	100.00	100.00	84.40	0.00	0.00
2000-08-08	0.00	100.00	100.00	0.00	0.00	0.00
2000-08-15	0.00	100.00	22.37	0.00	0.00	0.00
2000-08-22	0.00	100.00	0.00	0.00	0.00	0.00
2000-08-29	0.00	100.00	0.00	0.00	0.00	0.00
2000-09-05	0.00	100.00	0.00	0.00	0.00	0.00
2000-09-12	3.88	96.12	0.00	0.00	0.00	0.00
2000-09-19	100.00	0.00	0.00	0.00	0.00	0.00
2000-09-26	100.00	0.00	0.00	0.00	0.00	0.00

		A			· A	
Week 📤	None 🌲	D0-D4 ♦	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2000-10-03	100.00	0.00	0.00	0.00	0.00	0.00
2000-10-10	100.00	0.00	0.00	0.00	0.00	0.00
2000-10-17	100.00	0.00	0.00	0.00	0.00	0.00
2000-10-24	0.00	100.00	0.00	0.00	0.00	0.00
2000-10-31	0.00	100.00	0.00	0.00	0.00	0.00
2000-11-07	0.00	100.00	1.06	0.00	0.00	0.00
2000-11-14	0.00	100.00	1.06	0.00	0.00	0.00
2000-11-21	0.00	100.00	54.88	0.00	0.00	0.00
2000-11-28	0.00	100.00	1.13	0.00	0.00	0.00
2000-12-05	0.00	100.00	1.13	0.00	0.00	0.00
2000-12-12	0.00	100.00	1.12	0.00	0.00	0.00
2000-12-19	0.00	100.00	22.81	0.00	0.00	0.00
2000-12-26	0.00	100.00	100.00	0.00	0.00	0.00
2001-01-02	0.00	100.00	0.00	0.00	0.00	0.00
2001-01-09	0.00	100.00	0.00	0.00	0.00	0.00
2001-01-16	0.00	100.00	0.00	0.00	0.00	0.00
2001-01-23	0.00	100.00	0.00	0.00	0.00	0.00
2001-01-30	0.00	100.00	0.00	0.00	0.00	0.00
2001-02-06	0.00	100.00	0.00	0.00	0.00	0.00
2001-02-13	0.00	100.00	100.00	0.00	0.00	0.00
2001-02-20	0.00	100.00	100.00	0.00	0.00	0.00
2001-02-27	0.00	100.00	100.00	0.00	0.00	0.00
2001-03-06	0.00	100.00	100.00	0.00	0.00	0.00
2001-03-13	0.00	100.00	100.00	0.00	0.00	0.00
2001-03-20	0.00	100.00	100.00	0.00	0.00	0.00
2001-03-27	0.00	100.00	100.00	0.00	0.00	0.00
2001-04-03	0.00	100.00	100.00	0.00	0.00	0.00
2001-04-10	0.00	100.00	100.00	0.00	0.00	0.00
2001-04-17	0.00	100.00	100.00	0.00	0.00	0.00
2001-04-24	0.00	100.00	100.00	0.00	0.00	0.00
2001-05-01	0.00	100.00	100.00	0.00	0.00	0.00
2001-05-08	0.00	100.00	100.00	0.00	0.00	0.00
2001-05-15	0.00	100.00	100.00	100.00	0.00	0.00
2001-05-22	0.00	100.00	100.00	100.00	0.00	0.00
2001-05-29	0.00	100.00	100.00	100.00	0.00	0.00
2001-06-05	0.00	100.00	100.00	100.00	0.00	0.00
2001-06-12	0.00	100.00	100.00	0.00	0.00	0.00
2001-06-19	0.00	100.00	100.00	0.00	0.00	0.00
2001-06-26	0.00	100.00	100.00	0.00	0.00	0.00
2001-07-03	0.00	100.00	44.96	0.00	0.00	0.00
2001-07-10	7.69	92.31	0.00	0.00	0.00	0.00
2001-07-17	7.69	92.31	0.00	0.00	0.00	0.00
2001-07-24	7.70	92.30	0.00	0.00	0.00	0.00
2001-07-31	4.26	95.74	0.00	0.00	0.00	0.00
2001-08-07	100.00	0.00	0.00	0.00	0.00	0.00
2001-08-14	100.00	0.00	0.00	0.00	0.00	0.00
2001-08-21	100.00	0.00	0.00	0.00	0.00	0.00
2001-08-28	100.00	0.00	0.00	0.00	0.00	0.00
2001-09-04	100.00	0.00	0.00	0.00	0.00	0.00
2001-09-11	100.00	0.00	0.00	0.00	0.00	0.00
2001-09-18	100.00	0.00	0.00	0.00	0.00	0.00
2001-09-25	100.00	0.00	0.00	0.00	0.00	0.00
2001-10-02	100.00	0.00	0.00	0.00	0.00	0.00
2001-10-09	100.00	0.00	0.00	0.00	0.00	0.00
2001-10-16	100.00	0.00	0.00	0.00	0.00	0.00
		•				

Week	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2001-10-23	100.00	0.00	0.00	0.00	0.00	0.00
2001-10-30	0.00	100.00	29.76	0.00	0.00	0.00
2001-11-06	0.00	100.00	93.46	0.00	0.00	0.00
2001-11-13	0.00	100.00	100.00	0.00	0.00	0.00
2001-11-20	0.00	100.00	100.00	0.00	0.00	0.00
2001-11-27	0.00	100.00	100.00	0.00	0.00	0.00
2001-12-04	0.00	100.00	100.00	0.00	0.00	0.00
2001-12-11	0.00	100.00	100.00	0.00	0.00	0.00
2001-12-18	0.00	100.00	100.00	0.00	0.00	0.00
2001-12-25	0.00	100.00	100.00	0.00	0.00	0.00
2002-01-01	0.00	100.00	100.00	100.00	0.00	0.00
2002-01-08	0.00	100.00	100.00	98.83	0.00	0.00
2002-01-15	0.00	100.00	100.00	48.35	0.00	0.00
2002-01-22	0.00	100.00	100.00	38.67	0.00	0.00
2002-01-29	0.00	100.00	100.00	48.49	0.00	0.00
2002-02-05	0.00	100.00	100.00	43.84	0.00	0.00
2002-02-12	0.00	100.00	100.00	100.00	0.00	0.00
2002-02-19	0.00	100.00	100.00	100.00	0.00	0.00
2002-02-26	0.00	100.00	100.00	100.00	0.00	0.00
2002-03-05	0.00	100.00	100.00	0.00	0.00	0.00
2002-03-12	0.00	100.00	100.00	0.00	0.00	0.00
2002-03-19	0.00	100.00	100.00	0.00	0.00	0.00
2002-03-26	0.00	100.00	100.00	11.29	0.00	0.00
2002-04-02	0.00	100.00	100.00	11.66	0.00	0.00
2002-04-09	0.00	100.00	100.00	14.89	0.00	0.00
2002-04-16	0.00	100.00	100.00	85.82	0.00	0.00
2002-04-23	0.00	100.00	100.00	79.06	0.00	0.00
2002-04-30	0.00	100.00	100.00	100.00	0.00	0.00
2002-05-07	0.00	100.00	100.00	100.00	0.00	0.00
2002-05-14	0.00	100.00	100.00	100.00	63.16	0.00
2002-05-21	0.00	100.00	100.00	100.00	100.00	0.00
2002-05-28	0.00	100.00	100.00	100.00	80.61	0.00
2002-06-04	0.00	100.00	100.00	100.00	100.00	0.00
2002-06-11	0.00	100.00	100.00	100.00	97.01	0.00
2002-06-18	0.00	100.00	100.00	100.00	92.30	0.00
2002-06-25	0.00	100.00	100.00	100.00	0.00	0.00
2002-07-02	0.00	100.00	100.00	100.00	0.00	0.00
2002-07-09	0.00	100.00	100.00	100.00	0.00	0.00
2002-07-16	0.00	100.00	100.00	100.00	0.00	0.00
2002-07-23	0.00	100.00	100.00	39.24	0.00	0.00
2002-07-30	0.00	100.00	9.59	0.00	0.00	0.00
2002-08-06	0.00	100.00	9.28	0.00	0.00	0.00
2002-08-13	0.00	100.00	78.99	0.00	0.00	0.00
2002-08-20	0.00	100.00	79.27	0.00	0.00	0.00
2002-08-27	0.00	100.00	83.33	0.00	0.00	0.00
2002-09-03	0.00	100.00	100.00	0.00	0.00	0.00
2002-09-10	0.00	100.00	100.00	0.00	0.00	0.00
2002-09-17	6.93	93.07	0.00	0.00	0.00	0.00
2002-09-24	42.26	57.74	0.00	0.00	0.00	0.00
2002-10-01	0.00	100.00	0.00	0.00	0.00	0.00
2002-10-08	0.00	100.00	100.00	0.00	0.00	0.00
2002-10-15	0.00	100.00	89.24	0.00	0.00	0.00
2002-10-22	0.00	100.00	92.92	0.00	0.00	0.00
2002-10-29	0.00	100.00	30.48	0.00	0.00	0.00
2002-11-05	0.00	100.00	39.16	0.00	0.00	0.00

Week	None 🔷	D0-D4 ♦	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2002-11-12	0.00	100.00	26.30	0.00	0.00	0.00
2002-11-19	0.00	100.00	40.30	0.00	0.00	0.00
2002-11-26	0.00	100.00	28.36	0.00	0.00	0.00
2002-12-03	0.00	100.00	32.87	0.00	0.00	0.00
2002-12-10	0.00	100.00	31.14	0.00	0.00	0.00
2002-12-17	0.00	100.00	0.00	0.00	0.00	0.00
2002-12-24	0.00	100.00	0.00	0.00	0.00	0.00
2002-12-31	0.00	100.00	0.00	0.00	0.00	0.00
2003-01-07	0.00	100.00	0.00	0.00	0.00	0.00
2003-01-14	0.00	100.00	0.00	0.00	0.00	0.00
2003-01-21	0.00	100.00	0.00	0.00	0.00	0.00
2003-01-28	0.00	100.00	0.00	0.00	0.00	0.00
2003-02-04	0.00	100.00	0.00	0.00	0.00	0.00
2003-02-11	0.00	100.00	0.00	0.00	0.00	0.00
2003-02-18	0.00	100.00	0.00	0.00	0.00	0.00
2003-02-25	0.00	100.00	0.00	0.00	0.00	0.00
2003-03-04	0.00	100.00	0.00	0.00	0.00	0.00
2003-03-11	100.00	0.00	0.00	0.00	0.00	0.00
2003-03-18	100.00	0.00	0.00	0.00	0.00	0.00
2003-03-25	100.00	0.00	0.00	0.00	0.00	0.00
2003-04-01	100.00	0.00	0.00	0.00	0.00	0.00
2003-04-08	100.00	0.00	0.00	0.00	0.00	0.00
2003-04-15	100.00	0.00	0.00	0.00	0.00	0.00
2003-04-22	100.00	0.00	0.00	0.00	0.00	0.00
2003-04-29	100.00	0.00	0.00	0.00	0.00	0.00
2003-05-06	100.00	0.00	0.00	0.00	0.00	0.00
2003-05-13	100.00	0.00	0.00	0.00	0.00	0.00
2003-05-20	100.00	0.00	0.00	0.00	0.00	0.00
2003-05-27	100.00	0.00	0.00	0.00	0.00	0.00
2003-06-03	100.00	0.00	0.00	0.00	0.00	0.00
2003-06-10	100.00	0.00	0.00	0.00	0.00	0.00
2003-06-17	100.00	0.00	0.00	0.00	0.00	0.00
2003-06-24	100.00	0.00	0.00	0.00	0.00	0.00
2003-07-01	100.00	0.00	0.00	0.00	0.00	0.00
2003-07-08	100.00	0.00	0.00	0.00	0.00	0.00
2003-07-15	100.00	0.00	0.00	0.00	0.00	0.00
2003-07-22	100.00	0.00	0.00	0.00	0.00	0.00
2003-07-29	100.00	0.00	0.00	0.00	0.00	0.00
2003-08-05	100.00	0.00	0.00	0.00	0.00	0.00
2003-08-12	100.00	0.00	0.00	0.00	0.00	0.00
2003-08-19	100.00	0.00	0.00	0.00	0.00	0.00
2003-08-26	100.00	0.00	0.00	0.00	0.00	0.00
2003-09-02	100.00	0.00	0.00	0.00	0.00	0.00
2003-09-09	100.00	0.00	0.00	0.00	0.00	0.00
2003-09-16	100.00	0.00	0.00	0.00	0.00	0.00
2003-09-23	100.00	0.00	0.00	0.00	0.00	0.00
2003-09-30	100.00	0.00	0.00	0.00	0.00	0.00
2003-10-07	100.00	0.00	0.00	0.00	0.00	0.00
2003-10-14	100.00	0.00	0.00	0.00	0.00	0.00
2003-10-21	100.00	0.00	0.00	0.00	0.00	0.00
2003-10-28	100.00	0.00	0.00	0.00	0.00	0.00
2003-11-04	100.00	0.00	0.00	0.00	0.00	0.00
2003-11-11	100.00	0.00	0.00	0.00	0.00	0.00
2003-11-18	100.00	0.00	0.00	0.00	0.00	0.00
2003-11-25	100.00	0.00	0.00	0.00	0.00	0.00
	1	į		i		ļ

Week 📤	None 🌲	D0-D4 ♦	D1-D4 🔷	D2-D4 ♦	D3-D4 ♦	D4 🔷
2003-12-02	100.00	0.00	0.00	0.00	0.00	0.00
2003-12-09	100.00	0.00	0.00	0.00	0.00	0.00
2003-12-16	100.00	0.00	0.00	0.00	0.00	0.00
2003-12-23	100.00	0.00	0.00	0.00	0.00	0.00
2003-12-30	100.00	0.00	0.00	0.00	0.00	0.00
2004-01-06	100.00	0.00	0.00	0.00	0.00	0.00
2004-01-13	100.00	0.00	0.00	0.00	0.00	0.00
2004-01-20	100.00	0.00	0.00	0.00	0.00	0.00
2004-01-27	100.00	0.00	0.00	0.00	0.00	0.00
2004-02-03	100.00	0.00	0.00	0.00	0.00	0.00
2004-02-10	100.00	0.00	0.00	0.00	0.00	0.00
2004-02-17	100.00	0.00	0.00	0.00	0.00	0.00
2004-02-24	100.00	0.00	0.00	0.00	0.00	0.00
2004-03-02	100.00	0.00	0.00	0.00	0.00	0.00
2004-03-09	100.00	0.00	0.00	0.00	0.00	0.00
2004-03-16	100.00	0.00	0.00	0.00	0.00	0.00
2004-03-23	0.00	100.00	0.00	0.00	0.00	0.00
2004-03-30	0.00	100.00	0.00	0.00	0.00	0.00
2004-04-06	0.00	100.00	0.00	0.00	0.00	0.00
2004-04-13	0.00	100.00	0.00	0.00	0.00	0.00
2004-04-20	0.00	100.00	0.00	0.00	0.00	0.00
2004-04-27	0.00	100.00	0.00	0.00	0.00	0.00
2004-05-04	0.00	100.00	0.00	0.00	0.00	0.00
2004-05-11	0.00	100.00	0.00	0.00	0.00	0.00
2004-05-18	0.00	100.00	0.00	0.00	0.00	0.00
2004-05-25	0.00	100.00	100.00	0.00	0.00	0.00
2004-06-01	0.00	100.00	100.00	0.00	0.00	0.00
2004-06-08	0.00	100.00	100.00	56.12	0.00	0.00
2004-06-15	0.00	100.00	87.88	0.00	0.00	0.00
2004-06-22	0.00	100.00	77.23	0.00	0.00	0.00
2004-06-29	20.47	79.53	0.00	0.00	0.00	0.00
2004-07-06	100.00	0.00	0.00	0.00	0.00	0.00
2004-07-13	100.00	0.00	0.00	0.00	0.00	0.00
2004-07-20	100.00	0.00	0.00	0.00	0.00	0.00
2004-07-27	100.00	0.00	0.00	0.00	0.00	0.00
2004-08-03	100.00	0.00	0.00	0.00	0.00	0.00
2004-08-10	40.20	59.80	0.00	0.00	0.00	0.00
2004-08-17	100.00	0.00	0.00	0.00	0.00	0.00
2004-08-24	100.00	0.00	0.00	0.00	0.00	0.00
2004-08-31	100.00	0.00	0.00	0.00	0.00	0.00
2004-09-07	100.00	0.00	0.00	0.00	0.00	0.00
2004-09-14	100.00	0.00	0.00	0.00	0.00	0.00
2004-09-21	100.00	0.00	0.00	0.00	0.00	0.00
2004-09-28	100.00	0.00	0.00	0.00	0.00	0.00
2004-10-05	100.00	0.00	0.00	0.00	0.00	0.00
2004-10-12	100.00	0.00	0.00	0.00	0.00	0.00
2004-10-19	100.00	0.00	0.00	0.00	0.00	0.00
2004-10-26	100.00	0.00	0.00	0.00	0.00	0.00
2004-11-02	100.00	0.00	0.00	0.00	0.00	0.00
2004-11-09	100.00	0.00	0.00	0.00	0.00	0.00
2004-11-16	100.00	0.00	0.00	0.00	0.00	0.00
2004-11-23	100.00	0.00	0.00	0.00	0.00	0.00
2004-11-30	100.00	0.00	0.00	0.00	0.00	0.00
2004-12-07	100.00	0.00	0.00	0.00	0.00	0.00
2004-12-14	100.00	0.00	0.00	0.00	0.00	0.00

Week 📤			DIDI A	20.24	D0 D4 A	- A
VVCCR	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2004-12-21	100.00	0.00	0.00	0.00	0.00	0.00
2004-12-28	100.00	0.00	0.00	0.00	0.00	0.00
2005-01-04	100.00	0.00	0.00	0.00	0.00	0.00
2005-01-11	100.00	0.00	0.00	0.00	0.00	0.00
2005-01-18	100.00	0.00	0.00	0.00	0.00	0.00
2005-01-25	100.00	0.00	0.00	0.00	0.00	0.00
2005-02-01	100.00	0.00	0.00	0.00	0.00	0.00
2005-02-08	100.00	0.00	0.00	0.00	0.00	0.00
2005-02-15	100.00	0.00	0.00	0.00	0.00	0.00
2005-02-22	100.00	0.00	0.00	0.00	0.00	0.00
2005-03-01	100.00	0.00	0.00	0.00	0.00	0.00
		0.00	0.00			0.00
2005-03-15	100.00		0.00	0.00	0.00	
2005-03-22	100.00	0.00	0.00	0.00	0.00	0.00
2005-03-29			0.00			0.00
2005-04-05	100.00	0.00	0.00	0.00	0.00	0.00
2005-04-12	100.00	0.00	0.00	0.00	0.00	0.00
2005-04-19	100.00	0.00	0.00	0.00	0.00	0.00
2005-04-26	100.00	0.00	0.00	0.00	0.00	0.00
2005-05-10	100.00	0.00	0.00	0.00	0.00	0.00
2005-05-17	100.00	0.00	0.00	0.00	0.00	0.00
2005-05-24	100.00	0.00	0.00	0.00	0.00	0.00
2005-05-31	100.00	0.00	0.00	0.00	0.00	0.00
2005-06-07	100.00	0.00	0.00	0.00	0.00	0.00
2005-06-14	100.00	0.00	0.00	0.00	0.00	0.00
2005-06-21	100.00	0.00	0.00	0.00	0.00	0.00
2005-06-28	100.00	0.00	0.00	0.00	0.00	0.00
2005-07-05	100.00	0.00	0.00	0.00	0.00	0.00
2005-07-12	100.00	0.00	0.00	0.00	0.00	0.00
2005-07-19	100.00	0.00	0.00	0.00	0.00	0.00
2005-07-26	100.00	0.00	0.00	0.00	0.00	0.00
2005-08-02	100.00	0.00	0.00	0.00	0.00	0.00
2005-08-09	100.00	0.00	0.00	0.00	0.00	0.00
2005-08-16	100.00	0.00	0.00	0.00	0.00	0.00
2005-08-23	100.00	0.00	0.00	0.00	0.00	0.00
2005-08-30	100.00	0.00	0.00	0.00	0.00	0.00
2005-09-06	100.00	0.00	0.00	0.00	0.00	0.00
2005-09-13	100.00	0.00	0.00	0.00	0.00	0.00
2005-09-20	100.00	0.00	0.00	0.00	0.00	0.00
2005-09-27	100.00	0.00	0.00	0.00	0.00	0.00
2005-10-04	100.00	0.00	0.00	0.00	0.00	0.00
2005-10-11	100.00	0.00	0.00	0.00	0.00	0.00
2005-10-18	100.00	0.00	0.00	0.00	0.00	0.00
2005-10-25	100.00	0.00	0.00	0.00	0.00	0.00
2005-11-01	100.00	0.00	0.00	0.00	0.00	0.00
2005-11-08	100.00	0.00	0.00	0.00	0.00	0.00
2005-11-15	100.00	0.00	0.00	0.00	0.00	0.00
2005-11-22	100.00	0.00	0.00	0.00	0.00	0.00
2005-11-29	100.00	0.00	0.00	0.00	0.00	0.00
2005-12-06	100.00	0.00	0.00	0.00	0.00	0.00
2005-12-13	100.00	0.00	0.00	0.00	0.00	0.00
2005-12-20	100.00	0.00	0.00	0.00	0.00	0.00
2005-12-27	100.00	0.00	0.00	0.00	0.00	0.00
2006-01-03	100.00	0.00	0.00	0.00	0.00	0.00
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Week 📤	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 💠
2006-01-10	100.00	0.00	0.00	0.00	0.00	0.00
2006-01-17	100.00	0.00	0.00	0.00	0.00	0.00
2006-01-24	100.00	0.00	0.00	0.00	0.00	0.00
2006-01-31	100.00	0.00	0.00	0.00	0.00	0.00
2006-02-07	100.00	0.00	0.00	0.00	0.00	0.00
2006-02-14	100.00	0.00	0.00	0.00	0.00	0.00
2006-02-21	100.00	0.00	0.00	0.00	0.00	0.00
2006-02-28	100.00	0.00	0.00	0.00	0.00	0.00
2006-03-07	100.00	0.00	0.00	0.00	0.00	0.00
2006-03-14	100.00	0.00	0.00	0.00	0.00	0.00
2006-03-21	100.00	0.00	0.00	0.00	0.00	0.00
2006-03-28	100.00	0.00	0.00	0.00	0.00	0.00
2006-04-04	100.00	0.00	0.00	0.00	0.00	0.00
2006-04-11	100.00	0.00	0.00	0.00	0.00	0.00
2006-04-18	100.00	0.00	0.00	0.00	0.00	0.00
2006-04-25	100.00	0.00	0.00	0.00	0.00	0.00
2006-05-02	100.00	0.00	0.00	0.00	0.00	0.00
2006-05-09	100.00	0.00	0.00	0.00	0.00	0.00
2006-05-16	100.00	0.00	0.00	0.00	0.00	0.00
2006-05-23	100.00	0.00	0.00	0.00	0.00	0.00
2006-05-30	100.00	0.00	0.00	0.00	0.00	0.00
2006-06-06	100.00	0.00	0.00	0.00	0.00	0.00
2006-06-13	100.00	0.00	0.00	0.00	0.00	0.00
2006-06-20	100.00	0.00	0.00	0.00	0.00	0.00
2006-06-27	100.00	0.00	0.00	0.00	0.00	0.00
2006-07-04	100.00	0.00	0.00	0.00	0.00	0.00
2006-07-11	32.34	67.66	0.00	0.00	0.00	0.00
2006-07-18	0.00	100.00	0.00	0.00	0.00	0.00
2006-07-25	0.00	100.00	0.00	0.00	0.00	0.00
2006-08-01	0.00	100.00	0.00	0.00	0.00	0.00
2006-08-08	0.00	100.00	0.00	0.00	0.00	0.00
2006-08-15	0.00	100.00	0.00	0.00	0.00	0.00
2006-08-22	0.00	100.00	100.00	0.00	0.00	0.00
2006-08-29	0.00	100.00	1.24	0.00	0.00	0.00
2006-09-05	0.00	100.00	1.24	0.00	0.00	0.00
2006-09-12	0.00	100.00	0.00	0.00	0.00	0.00
2006-09-19	0.00	100.00	0.00	0.00	0.00	0.00
2006-09-26	0.00	100.00	0.00	0.00	0.00	0.00
2006-10-03	0.00	100.00	11.23	0.00	0.00	0.00
2006-10-10	0.00	100.00	100.00	0.00	0.00	0.00
2006-10-17	0.00	100.00	100.00	0.00	0.00	0.00
2006-10-24	0.00	100.00	100.00	0.00	0.00	0.00
2006-10-31	0.00	100.00	100.00	0.00	0.00	0.00
2006-11-07	0.00	100.00	100.00	0.00	0.00	0.00
2006-11-14	0.00	100.00	100.00	0.00	0.00	0.00
2006-11-21	0.00	100.00	100.00	0.00	0.00	0.00
2006-11-28	0.00	100.00	0.00	0.00	0.00	0.00
2006-12-05	0.00	100.00	0.00	0.00	0.00	0.00
2006-12-12	0.00	100.00	94.05	0.00	0.00	0.00
2006-12-19	0.00	100.00	94.05	0.00	0.00	0.00
2006-12-26	0.00	100.00	94.05	0.00	0.00	0.00
2007-01-02	0.00	100.00	0.00	0.00	0.00	0.00
2007-01-09	0.00	100.00	0.00	0.00	0.00	0.00
2007-01-16	0.00	100.00	0.00	0.00	0.00	0.00
2007-01-23	0.00	100.00	0.00	0.00	0.00	0.00

Week 📤	None 🔷	D0-D4 ♦	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2007-01-30	0.00	100.00	0.00	0.00	0.00	0.00
2007-02-06	0.00	100.00	0.00	0.00	0.00	0.00
2007-02-13	0.00	100.00	0.00	0.00	0.00	0.00
2007-02-20	0.00	100.00	0.00	0.00	0.00	0.00
2007-02-27	0.00	100.00	0.00	0.00	0.00	0.00
2007-03-06	2.61	97.39	0.00	0.00	0.00	0.00
2007-03-13	2.61	97.39	0.00	0.00	0.00	0.00
2007-03-20	0.00	100.00	0.00	0.00	0.00	0.00
2007-03-27	0.00	100.00	0.00	0.00	0.00	0.00
2007-04-03	0.00	100.00	100.00	0.00	0.00	0.00
2007-04-10	0.00	100.00	100.00	0.00	0.00	0.00
2007-04-17	0.00	100.00	100.00	100.00	0.00	0.00
2007-04-24	0.00	100.00	100.00	100.00	100.00	0.00
2007-05-01	0.00	100.00	100.00	100.00	100.00	0.00
2007-05-08	0.00	100.00	100.00	100.00	100.00	0.00
2007-05-15	0.00	100.00	100.00	100.00	100.00	0.00
2007-05-22	0.00	100.00	100.00	100.00	100.00	0.00
2007-05-29	0.00	100.00	100.00	100.00	100.00	0.00
2007-06-05	0.00	100.00	100.00	100.00	0.00	0.00
2007-06-12	0.00	100.00	100.00	100.00	0.00	0.00
2007-06-19	0.00	100.00	100.00	100.00	0.00	0.00
2007-06-26	0.00	100.00	100.00	100.00	0.00	0.00
2007-07-03	0.00	100.00	100.00	100.00	0.00	0.00
2007-07-10	0.00	100.00	100.00	100.00	0.00	0.00
2007-07-17	0.00	100.00	100.00	100.00	0.00	0.00
2007-07-24	0.00	100.00	100.00	100.00	0.00	0.00
2007-07-31	0.00	100.00	100.00	100.00	0.00	0.00
2007-08-07	0.00	100.00	52.69	0.00	0.00	0.00
2007-08-14	0.00	100.00	11.03	0.00	0.00	0.00
2007-08-21	0.00	100.00	13.25	0.00	0.00	0.00
2007-08-28	0.00	100.00	68.35	0.00	0.00	0.00
2007-09-04	30.74	69.26	0.00	0.00	0.00	0.00
2007-09-11	30.74	69.26	0.00	0.00	0.00	0.00
2007-09-18	71.06	28.94	0.00	0.00	0.00	0.00
2007-09-25	100.00	0.00	0.00	0.00	0.00	0.00
2007-10-02	100.00	0.00	0.00	0.00	0.00	0.00
2007-10-09	100.00	0.00	0.00	0.00	0.00	0.00
2007-10-16	100.00	0.00	0.00	0.00	0.00	0.00
2007-10-23	100.00	0.00	0.00	0.00	0.00	0.00
2007-10-30	100.00	0.00	0.00	0.00	0.00	0.00
2007-11-06	100.00	0.00	0.00	0.00	0.00	0.00
2007-11-13	80.46	19.54	0.00	0.00	0.00	0.00
2007-11-20	80.46	19.54	0.00	0.00	0.00	0.00
2007-11-27	80.46	19.54	0.00	0.00	0.00	0.00
2007-12-04	20.70	79.30	0.00	0.00	0.00	0.00
2007-12-11	0.00	100.00	0.00	0.00	0.00	0.00
2007-12-18	0.00	100.00	0.00	0.00	0.00	0.00
2007-12-25	0.00	100.00	0.00	0.00	0.00	0.00
2008-01-01	0.00	100.00	0.00	0.00	0.00	0.00
2008-01-08	0.00	100.00	0.00	0.00	0.00	0.00
2008-01-15	0.00	100.00	0.00	0.00	0.00	0.00
2008-01-22	0.00	100.00	0.00	0.00	0.00	0.00
2008-01-29	0.00	100.00	0.00	0.00	0.00	0.00
2008-02-05	0.00	100.00	0.00	0.00	0.00	0.00
2008-02-12	0.00	100.00	0.00	0.00	0.00	0.00

					_		
1000 0.00	Week	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4	D3-D4 🔷	D4 🔷
	2008-02-19	0.00	100.00	0.00	0.00	0.00	0.00
	2008-02-26	100.00	0.00	0.00	0.00	0.00	0.00
2006-83-86 100.00 0.00	2008-03-04	100.00	0.00	0.00	0.00	0.00	0.00
	2008-03-11	100.00	0.00	0.00	0.00	0.00	0.00
2008-0-4-01 100.00 0.00	2008-03-18	100.00	0.00	0.00	0.00	0.00	0.00
2008-4-48	2008-03-25	100.00	0.00	0.00	0.00	0.00	0.00
1000 1000	2008-04-01	100.00	0.00	0.00	0.00	0.00	0.00
2006-04-22 100.00 0.00 0.00 0.00 0.00 0.00 2008-04-28 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-18 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-13 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-27 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-27 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-27 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-17 100.00 0.00 0.00 0.00 0.00 0.00 2008-05-14 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-15 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-16 0.00 100.00 0.00 0.00 0.00 0.00 2008-07-15 0.00	2008-04-08	100.00	0.00	0.00	0.00	0.00	0.00
100 100	2008-04-15	100.00	0.00	0.00	0.00	0.00	0.00
2006.05-16 100.00 0.00	2008-04-22	100.00	0.00	0.00	0.00	0.00	0.00
200-05-13 100 00 0.00	2008-04-29	100.00	0.00	0.00	0.00	0.00	0.00
2088.05-20 100.00 0.00	2008-05-06	100.00	0.00	0.00	0.00	0.00	0.00
2008.05.27 100.00 0.00	2008-05-13	100.00	0.00	0.00	0.00	0.00	0.00
208-06-03 100.00 0.00	2008-05-20	100.00	0.00	0.00	0.00	0.00	0.00
2008-06-10 100.00 0.00	2008-05-27	100.00	0.00	0.00	0.00	0.00	0.00
2008-06-17 100.00 0.00 0.00 0.00 0.00 0.00 2008-06-24 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-18 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-18 100.00 100.00 0.00 0.00 0.00 0.00 2008-07-18 100.00 100.00 0.00 0.00 0.00 0.00 2008-07-18 0.00 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-18 0.00 100.00 0.00 0.00 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-18 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-19 7.52 92.48 0.00 0.00 0.00 0.00 2008-08-19 7.52 92.48 0.00 0.00 0.00 0.00 <	2008-06-03	100.00	0.00	0.00	0.00	0.00	0.00
2008-06-24 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-08 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2008-07-18 0.00 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-12 0.00 100.00 0.00 0.00 0.00 0.00 0.00 2008-08-12 0.00 100.00 0.00 0.00 0.00 0.00 0.00 2008-08-12 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-12 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-12 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-12 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-13 7.52 92.48 0.00 0.00 0.00 </th <th>2008-06-10</th> <th>100.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-06-10	100.00	0.00	0.00	0.00	0.00	0.00
2008-07-01 100.00 0.00	2008-06-17	100.00	0.00	0.00	0.00	0.00	0.00
2008-07-08 1 100.00 0.00 0.00 0.00 0.00 0.00 2008-07-16 0.00 100.00 0.00 0.00 0.00 0.00 2008-07-22 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-05 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-20 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-10-24 0	2008-06-24	100.00	0.00	0.00	0.00	0.00	0.00
2008-07-15 0.00 100.00 0.00 0.00 0.00 0.00 2008-07-22 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-05 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-12 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-15 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-10-27 0.00 100.00 92.51 0.00 0.00 0.00 2008-10-28 7.13 </th <th>2008-07-01</th> <th>100.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-07-01	100.00	0.00	0.00	0.00	0.00	0.00
2008-07-22 0.00 100.00 0.00 0.00 0.00 0.00 2008-07-29 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-15 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-10 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-33 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-47 0.00 100.00 92.61 0.00 0.00 0.00 2008-10-41 0.00<	2008-07-08	100.00	0.00	0.00	0.00	0.00	0.00
2008-07-29 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-05 0.00 100.00 0.00 0.00 0.00 0.00 2008-08-12 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2008-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-24 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13<	2008-07-15	0.00	100.00	0.00	0.00	0.00	0.00
208-08-05 0.00 100.00 92.69 0.00 0.00 0.00 2088-08-12 0.00 100.00 92.69 0.00 0.00 0.00 2088-08-19 0.00 100.00 92.69 0.00 0.00 0.00 2088-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2088-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2088-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2088-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2088-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2088-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2088-10-41 0.00 100.00 92.56 0.00 0.00 0.00 2088-10-42 0.00 100.00 93.85 0.00 0.00 0.00 2088-10-28 7.13	2008-07-22	0.00	100.00	0.00	0.00	0.00	0.00
2008-08-12 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-19 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-47 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-41 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-24 0.00 100.00 93.85 0.00 0.00 0.00 2008-11-18 7.1	2008-07-29	0.00	100.00	0.00	0.00	0.00	0.00
2008-08-19 0.00 100.00 92.89 0.00 0.00 0.00 2008-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-24 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-26 7.13<	2008-08-05	0.00	100.00	0.00	0.00	0.00	0.00
2008-08-26 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-02 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-33 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-04 0.00 100.00 92.65 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-29 100.00<	2008-08-12	0.00	100.00	92.69	0.00	0.00	0.00
2008-09-02 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.66 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-29 100.00<	2008-08-19	0.00	100.00	92.69	0.00	0.00	0.00
2008-09-09 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-26 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-27 100.00 </th <th>2008-08-26</th> <th>7.52</th> <th>92.48</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-08-26	7.52	92.48	0.00	0.00	0.00	0.00
2008-09-16 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-19-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-24 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-15 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00	2008-09-02	7.52	92.48	0.00	0.00	0.00	0.00
2008-09-23 7.52 92.48 0.00 0.00 0.00 0.00 2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2008-01-23	2008-09-09	7.52	92.48	0.00	0.00	0.00	0.00
2008-09-30 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-01-26	2008-09-16	7.52	92.48	0.00	0.00	0.00	0.00
2008-10-07 0.00 100.00 92.01 0.00 0.00 0.00 2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-14 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-36 100.0	2008-09-23	7.52	92.48	0.00	0.00	0.00	0.00
2008-10-14 0.00 100.00 92.56 0.00 0.00 0.00 2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-04 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-31 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-20 100.00	2008-09-30	0.00	100.00	92.01	0.00	0.00	0.00
2008-10-21 0.00 100.00 93.85 0.00 0.00 0.00 2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-04 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-11 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-03 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-20 100.00<	2008-10-07	0.00	100.00	92.01	0.00	0.00	0.00
2008-10-28 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-04 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-11 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 <th>2008-10-14</th> <th>0.00</th> <th>100.00</th> <th>92.56</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-10-14	0.00	100.00	92.56	0.00	0.00	0.00
2008-11-04 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-11 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-66 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-21 100.00 </th <th>2008-10-21</th> <th>0.00</th> <th>100.00</th> <th>93.85</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-10-21	0.00	100.00	93.85	0.00	0.00	0.00
2008-11-11 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-33 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-66 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00<	2008-10-28	7.13	92.87	0.00	0.00	0.00	0.00
2008-11-18 7.13 92.87 0.00 0.00 0.00 0.00 2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-33 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-24 0.00 </th <th>2008-11-04</th> <th>7.13</th> <th>92.87</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-11-04	7.13	92.87	0.00	0.00	0.00	0.00
2008-11-25 7.13 92.87 0.00 0.00 0.00 0.00 2008-12-02 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 0.00 2009-02-2	2008-11-11	7.13	92.87	0.00	0.00	0.00	0.00
2008-12-02 100.00 0.00	2008-11-18	7.13	92.87	0.00	0.00	0.00	0.00
2008-12-09 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00 0.00 <th>2008-11-25</th> <th>7.13</th> <th>92.87</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2008-11-25	7.13	92.87	0.00	0.00	0.00	0.00
2008-12-16 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2008-12-02	100.00	0.00	0.00	0.00	0.00	0.00
2008-12-23 100.00 0.00 0.00 0.00 0.00 0.00 2008-12-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2008-12-09	100.00	0.00	0.00	0.00	0.00	0.00
2008-12-30 100.00 0.00	2008-12-16	100.00	0.00	0.00	0.00	0.00	0.00
2009-01-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-02-10 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2008-12-23	100.00	0.00	0.00	0.00	0.00	0.00
2009-01-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-10 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2008-12-30	100.00	0.00	0.00	0.00	0.00	0.00
2009-01-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-01-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-10 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2009-01-06	100.00	0.00	0.00	0.00	0.00	0.00
2009-01-27 100.00 0.00	2009-01-13	100.00	0.00	0.00	0.00	0.00	0.00
2009-02-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-02-10 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2009-01-20	100.00	0.00	0.00	0.00	0.00	0.00
2009-02-10 0.00 100.00 0.00 0.00 0.00 0.00 2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 0.00 0.00 0.00	2009-01-27	100.00	0.00	0.00	0.00	0.00	0.00
2009-02-17 0.00 100.00 100.00 0.00 0.00 0.00 2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2009-02-03	100.00	0.00	0.00	0.00	0.00	0.00
2009-02-24 0.00 100.00 100.00 0.00 0.00 0.00	2009-02-10	0.00	100.00	0.00	0.00	0.00	0.00
	2009-02-17	0.00	100.00	100.00	0.00	0.00	0.00
2009-03-03 0.00 100.00 100.00 0.00 0.00 0.00	2009-02-24	0.00	100.00	100.00	0.00	0.00	0.00
	2009-03-03	0.00	100.00	100.00	0.00	0.00	0.00

2009-03-17 0.00 100.00 100.00 0.00	Week 📤	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2009-03-24 0.00 100.00 100.00 0.00	2009-03-10	0.00	100.00	100.00	0.00	0.00	0.00
2009-94-14 100.00	2009-03-17	0.00	100.00	100.00	0.00	0.00	0.00
	2009-03-24	0.00	100.00	100.00	0.00	0.00	0.00
	2009-03-31	0.00	100.00	69.98	0.00	0.00	0.00
	2009-04-07	100.00	0.00	0.00	0.00	0.00	0.00
	2009-04-14	100.00	0.00	0.00	0.00	0.00	0.00
2009-45-45 100 00	2009-04-21	100.00	0.00	0.00	0.00	0.00	0.00
2009-46-12	2009-04-28	100.00	0.00	0.00	0.00	0.00	0.00
2009-8-19	2009-05-05	100.00	0.00	0.00	0.00	0.00	0.00
2009-06-26 100.00	2009-05-12	100.00	0.00	0.00	0.00	0.00	0.00
2009-06-02 100 00 0.00	2009-05-19	100.00	0.00	0.00	0.00	0.00	0.00
2009-86-69 100.00 0.00	2009-05-26	100.00	0.00	0.00	0.00	0.00	0.00
2009-06-16 100.00 0.00 0.00 0.00 0.00 0.00 2009-06-23 100.00 0.00 0.00 0.00 0.00 0.00 2009-06-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-07-17 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-07-24 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-07-28 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-08-14 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-09-18 100.00 <th>2009-06-02</th> <th>100.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2009-06-02	100.00	0.00	0.00	0.00	0.00	0.00
2009-06-23 100.00 0.00 0.00 0.00 0.00 0.00 2009-06-30 100.00 0.00 <th>2009-06-09</th> <th>100.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2009-06-09	100.00	0.00	0.00	0.00	0.00	0.00
2009-36-30 100.00 0.00 0.00 0.00 0.00 0.00 2009-377 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-37-14 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-37-28 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-88-44 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-88-15 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-88-15 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-89-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-99-18 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-99-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-99-19 100.00	2009-06-16	100.00	0.00	0.00	0.00	0.00	0.00
2009-07-47	2009-06-23	100.00	0.00	0.00	0.00	0.00	0.00
2009-07-14 100.00 0.00 0.00 0.00 0.00 0.00 2009-07-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-04 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-11 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-29 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-09-29	2009-06-30	100.00	0.00	0.00	0.00	0.00	0.00
2009-07-21 100.00 0.00 0.00 0.00 0.00 0.00 2009-07-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-14 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-16 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-23 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-24 100.	2009-07-07	100.00	0.00	0.00	0.00	0.00	0.00
209-07-28 100.00 0.00	2009-07-14	100.00	0.00	0.00	0.00	0.00	0.00
2009-08-04 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-11 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-12 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-11 100.00 0.00 0.00 0.00 0.00 0.00 2009-99-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-99-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-99-16 100.00 0.00 0.00 0.00 0.00 0.00 2009-19-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-21 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-27 100.	2009-07-21	100.00	0.00	0.00	0.00	0.00	0.00
2009-08-11 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-26 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-22 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-26 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-10 100.	2009-07-28	100.00	0.00	0.00	0.00	0.00	0.00
2009-08-18 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-25 100.00 0.00 0.00 0.00 0.00 0.00 2009-08-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-30 10-6 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-11-13 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-12-12 100.00 0.00 0.00 0.00 0.00 <th>2009-08-04</th> <th>100.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0.00</th>	2009-08-04	100.00	0.00	0.00	0.00	0.00	0.00
2009-08-25 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-01 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-22 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-23 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-21 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-19 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-24 100.	2009-08-11	100.00	0.00	0.00	0.00	0.00	0.00
2009-09-01 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-66 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-13 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-33 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-13 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-10 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-10 100.	2009-08-18	100.00	0.00	0.00	0.00	0.00	0.00
209-99-96 100.00 0.00 0.00 0.00 0.00 0.00 2099-99-15 100.00 0.00 0.00 0.00 0.00 0.00 2099-99-22 100.00 0.00 0.00 0.00 0.00 0.00 2099-99-29 100.00 0.00 0.00 0.00 0.00 0.00 2099-10-13 61.46 38.54 0.00 0.00 0.00 0.00 2099-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2099-11-03 100.00 0.00 0.00 0.00 0.00 0.00 2099-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2099-11-03 100.00 0.00 0.00 0.00 0.00 0.00 2099-11-10 100.00 0.00 0.00 0.00 0.00 0.00 2099-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2099-12-29 100.0	2009-08-25	100.00	0.00	0.00	0.00	0.00	0.00
2009-09-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-09-22 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-96 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-13 61.46 38.54 0.00 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2009-11-33 100.00 0.00<	2009-09-01	100.00	0.00	0.00	0.00	0.00	0.00
2009-09-22 100.00 0.00	2009-09-08	100.00	0.00	0.00	0.00	0.00	0.00
2009-09-29 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-13 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-10 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-25 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-29 100.	2009-09-15	100.00	0.00	0.00	0.00	0.00	0.00
2009-10-06 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-13 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-10 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-28 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-2-29 10	2009-09-22	100.00	0.00	0.00	0.00	0.00	0.00
2009-10-13 61.46 38.54 0.00 0.00 0.00 0.00 2009-10-20 100.00 0.00 0.00 0.00 0.00 0.00 2009-10-27 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-03 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-241 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-25 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-268 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-05 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-19 10	2009-09-29	100.00	0.00	0.00	0.00	0.00	0.00
2009-10-20 100.00 0.00	2009-10-06	100.00	0.00	0.00	0.00	0.00	0.00
2009-10-27 100.00 0.00	2009-10-13	61.46	38.54	0.00	0.00	0.00	0.00
2009-11-03 100.00 0.00	2009-10-20	100.00	0.00	0.00	0.00	0.00	0.00
2009-11-10 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-17 100.00 0.00 0.00 0.00 0.00 0.00 2009-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-01 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2010-22-3 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-19 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-26 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-20 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.0	2009-10-27	100.00	0.00	0.00	0.00	0.00	0.00
2009-11-17 100.00 0.00	2009-11-03	100.00	0.00	0.00	0.00	0.00	0.00
2009-11-24 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-01 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-05 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-12 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-19 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-26 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.	2009-11-10	100.00	0.00	0.00	0.00	0.00	0.00
2009-12-01 100.00 0.00	2009-11-17	100.00	0.00	0.00	0.00	0.00	0.00
2009-12-08 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-15 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-22 100.00 0.00 0.00 0.00 0.00 0.00 2009-12-29 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-05 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-12 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-19 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-26 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.	2009-11-24	100.00	0.00	0.00	0.00	0.00	0.00
2009-12-15 100.00 0.00	2009-12-01	100.00	0.00	0.00	0.00	0.00	0.00
2009-12-22 100.00 0.00	2009-12-08	100.00	0.00	0.00	0.00	0.00	0.00
2009-12-29 100.00 0.00	2009-12-15	100.00	0.00	0.00	0.00	0.00	0.00
2010-01-05 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-12 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-19 100.00 0.00 0.00 0.00 0.00 0.00 2010-01-26 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2009-12-22	100.00	0.00	0.00	0.00	0.00	0.00
2010-01-12 100.00 0.00	2009-12-29	100.00	0.00	0.00	0.00	0.00	0.00
2010-01-19 100.00 0.00	2010-01-05	100.00	0.00	0.00	0.00	0.00	0.00
2010-01-26 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-01-12	100.00	0.00	0.00	0.00	0.00	0.00
2010-02-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-01-19	100.00	0.00	0.00	0.00	0.00	0.00
2010-02-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-01-26	100.00	0.00	0.00	0.00	0.00	0.00
2010-02-16 100.00 0.00 0.00 0.00 0.00 0.00 2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-02-02	100.00	0.00	0.00	0.00	0.00	0.00
2010-02-23 100.00 0.00 0.00 0.00 0.00 0.00 2010-03-02 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-02-09	100.00	0.00	0.00	0.00	0.00	0.00
2010-03-02 100.00 0.00 0.00 0.00 0.00 2010-03-09 100.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00	2010-02-16	100.00	0.00	0.00	0.00	0.00	0.00
2010-03-09 100.00 0.00 0.00 0.00 0.00 2010-03-16 100.00 0.00 0.00 0.00 0.00	2010-02-23	100.00	0.00	0.00	0.00	0.00	0.00
2010-03-16 100.00 0.00 0.00 0.00 0.00 0.00	2010-03-02	100.00	0.00	0.00	0.00	0.00	0.00
	2010-03-09	100.00	0.00	0.00	0.00	0.00	0.00
2010-03-23 100.00 0.00 0.00 0.00 0.00 0.00	2010-03-16	100.00	0.00	0.00	0.00	0.00	0.00
100.00 0.00 0.00 0.00	2010-03-23	100.00	0.00	0.00	0.00	0.00	0.00

Week	_	None	D0-D4 ♦	D1-D4 🔷	D2-D4 《	D3-D4 🔷	D4 🔷
2010-03-30		100.00	0.00	0.00	0.00	0.00	0.00
2010-04-06		100.00	0.00	0.00	0.00	0.00	0.00
2010-04-13		100.00	0.00	0.00	0.00	0.00	0.00
2010-04-20		100.00	0.00	0.00	0.00	0.00	0.00
2010-04-27		100.00	0.00	0.00	0.00	0.00	0.00
2010-05-04		100.00	0.00	0.00	0.00	0.00	0.00
2010-05-11		100.00	0.00	0.00	0.00	0.00	0.00
2010-05-18		100.00	0.00	0.00	0.00	0.00	0.00
2010-05-25		100.00	0.00	0.00	0.00	0.00	0.00
2010-06-01		100.00	0.00	0.00	0.00	0.00	0.00
2010-06-08		100.00	0.00	0.00	0.00	0.00	0.00
2010-06-15		100.00	0.00	0.00	0.00	0.00	0.00
2010-06-22		100.00	0.00	0.00	0.00	0.00	0.00
2010-06-29		100.00	0.00	0.00	0.00	0.00	0.00
2010-07-06		100.00	0.00	0.00	0.00	0.00	0.00
2010-07-13		100.00	0.00	0.00	0.00	0.00	0.00
2010-07-20		88.30	11.70	0.00	0.00	0.00	0.00
2010-07-27		35.01	64.99	0.00	0.00	0.00	0.00
2010-08-03		35.01	64.99	0.00	0.00	0.00	0.00
2010-08-10		27.33	72.67	0.00	0.00	0.00	0.00
2010-08-17		0.00	100.00	0.00	0.00	0.00	0.00
2010-08-24		7.74	92.26	0.00	0.00	0.00	0.00
2010-08-31		7.74	92.26	0.00	0.00	0.00	0.00
2010-09-07		7.74	92.26	0.00	0.00	0.00	0.00
2010-09-14		0.00	100.00	100.00	0.00	0.00	0.00
2010-09-21		0.00	100.00	100.00	0.00	0.00	0.00
2010-09-28		0.00	100.00	100.00	95.98	0.00	0.00
2010-10-05		0.00	100.00	100.00	95.98	0.00	0.00
2010-10-12		0.00	100.00	100.00	95.98	0.00	0.00
2010-10-19		0.00	100.00	100.00	95.98	0.00	0.00
2010-10-26		0.00	100.00	100.00	99.72	0.00	0.00
2010-11-02		0.00	100.00	100.00	99.72	0.00	0.00
2010-11-09		0.00	100.00	100.00	99.72	0.00	0.00
2010-11-16		0.00	100.00	100.00	86.94	0.00	0.00
2010-11-23		0.00	100.00	100.00	100.00	0.00	0.00
2010-11-30		0.00	100.00	100.00	100.00	0.00	0.00
2010-12-07		0.00	100.00	100.00	100.00	0.00	0.00
2010-12-14		0.00	100.00	100.00	100.00	5.15	0.00
2010-12-21		0.00	100.00	100.00	100.00	2.24	0.00
2010-12-28		0.00	100.00	100.00	100.00	0.00	0.00
2011-01-04		0.00	100.00	100.00	100.00	0.00	0.00
2011-01-11		0.00	100.00	100.00	100.00	0.00	0.00
2011-01-18		0.00	100.00	100.00	100.00	0.00	0.00
2011-01-25		0.00	100.00	100.00	100.00	0.00	0.00
2011-02-01		0.00	100.00	100.00	100.00	0.00	0.00
2011-02-08		0.00	100.00	100.00	100.00	0.00	0.00
2011-02-15		0.00	100.00	100.00	100.00	0.00	0.00
2011-02-22		0.00	100.00	100.00	100.00	0.00	0.00
2011-03-01		0.00	100.00	100.00	100.00	0.00	0.00
2011-03-08		0.00	100.00	100.00	100.00	0.00	0.00
2011-03-15		0.00	100.00	100.00	100.00	0.00	0.00
2011-03-22		0.00	100.00	100.00	100.00	0.00	0.00
2011-03-29		0.00	100.00	100.00	100.00	90.79	0.00
2011-04-05		0.00	100.00	100.00	100.00	63.89	0.00
2011-04-12		0.00	100.00	100.00	100.00	63.89	0.00

Week 📤	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2011-04-19	0.00	100.00	100.00	100.00	0.00	0.00
2011-04-26	0.00	100.00	100.00	100.00	0.00	0.00
2011-05-03	0.00	100.00	100.00	100.00	0.00	0.00
2011-05-10	0.00	100.00	100.00	100.00	98.92	0.00
2011-05-17	0.00	100.00	100.00	100.00	98.92	0.00
2011-05-24	0.00	100.00	100.00	100.00	98.92	0.00
2011-05-31	0.00	100.00	100.00	100.00	100.00	0.00
2011-06-07	0.00	100.00	100.00	100.00	100.00	0.00
2011-06-14	0.00	100.00	100.00	100.00	100.00	0.00
2011-06-21	0.00	100.00	100.00	100.00	100.00	0.00
2011-06-28	0.00	100.00	100.00	100.00	100.00	0.00
2011-07-05	0.00	100.00	100.00	100.00	100.00	0.00
2011-07-12	0.00	100.00	100.00	100.00	100.00	0.00
2011-07-19	0.00	100.00	100.00	100.00	100.00	0.00
2011-07-26	0.00	100.00	100.00	100.00	100.00	0.00
2011-08-02	0.00	100.00	100.00	100.00	100.00	0.00
2011-08-09	0.00	100.00	100.00	100.00	100.00	0.00
2011-08-16	0.00	100.00	100.00	100.00	100.00	0.00
2011-08-23	0.00	100.00	100.00	100.00	100.00	0.00
2011-08-30	0.00	100.00	100.00	100.00	100.00	0.00
2011-09-06	0.00	100.00	100.00	100.00	100.00	0.00
2011-09-13	0.00	100.00	100.00	100.00	100.00	0.00
2011-09-20	0.00	100.00	100.00	100.00	100.00	0.00
2011-09-27	0.00	100.00	100.00	100.00	100.00	0.00
2011-10-04	0.00	100.00	100.00	100.00	64.47	0.00
2011-10-11	0.00	100.00	100.00	100.00	64.95	0.00
2011-10-18	0.00	100.00	100.00	79.68	7.70	0.00
2011-10-25	0.00	100.00	100.00	79.68	7.70	0.00
2011-11-01	0.00	100.00	100.00	79.68	7.70	0.00
2011-11-08	0.00	100.00	100.00	79.68	7.70	0.00
2011-11-15	0.00	100.00	100.00	79.68	10.63	0.00
2011-11-22	0.00	100.00	100.00	79.68	10.63	0.00
2011-11-29	0.00	100.00	100.00	79.68	4.42	0.00
2011-12-06	0.00	100.00	100.00	79.68	4.42	0.00
2011-12-13	0.00	100.00	100.00	79.68	4.42	0.00
2011-12-20	0.00	100.00	100.00	100.00	79.68	0.00
2011-12-27	0.00	100.00	100.00	100.00	79.68	0.00
2012-01-03	0.00	100.00	100.00	100.00	79.68	0.00
2012-01-10	0.00	100.00	100.00	100.00	79.68	0.00
2012-01-17	0.00	100.00	100.00	100.00	100.00	0.00
2012-01-24	0.00	100.00	100.00	100.00	100.00	0.00
2012-01-31	0.00	100.00	100.00	100.00	100.00	32.03
2012-02-07	0.00	100.00	100.00	100.00	100.00	42.26
2012-02-14	0.00	100.00	100.00	100.00	100.00	42.26
2012-02-21	0.00	100.00	100.00	100.00	100.00	42.26
2012-02-28	0.00	100.00	100.00	100.00	100.00	42.26
2012-03-06	0.00	100.00	100.00	100.00	43.67	0.00
2012-03-13	0.00	100.00	100.00	100.00	43.67	0.00
2012-03-20	0.00	100.00	100.00	100.00	43.67	0.00
2012-03-27	0.00	100.00	100.00	100.00	43.67	0.00
2012-04-03	0.00	100.00	100.00	100.00	43.67	0.00
2012-04-10	0.00	100.00	100.00	100.00	43.67	0.00
2012-04-17	0.00	100.00	100.00	100.00	43.67	0.00
2012-04-24	0.00	100.00	100.00	100.00	43.67	0.00
2012-05-01	0.00	100.00	100.00	100.00	39.92	0.00

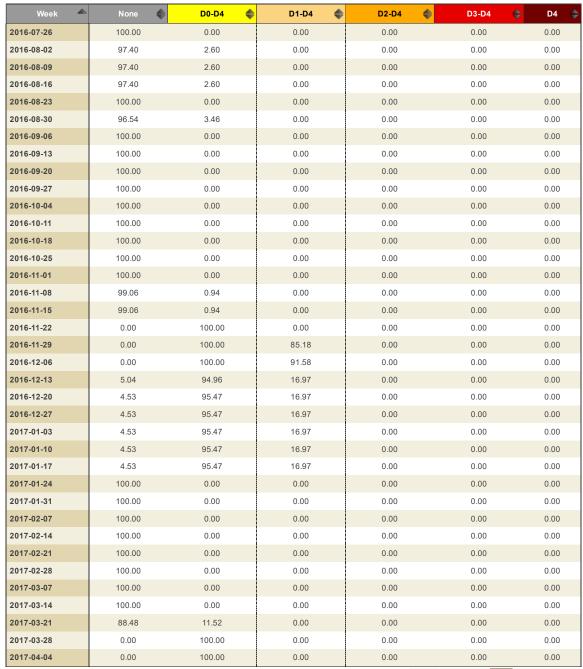
Week	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 💠
2012-05-08	0.00	100.00	100.00	100.00	39.92	0.00
2012-05-15	0.00	100.00	100.00	100.00	39.92	0.00
2012-05-22	0.00	100.00	100.00	100.00	39.92	0.00
2012-05-29	0.00	100.00	94.92	42.70	0.00	0.00
2012-06-05	0.00	100.00	94.92	0.00	0.00	0.00
2012-06-12	0.00	100.00	1.77	0.00	0.00	0.00
2012-06-19	92.22	7.78	0.00	0.00	0.00	0.00
2012-06-26	100.00	0.00	0.00	0.00	0.00	0.00
2012-07-03	100.00	0.00	0.00	0.00	0.00	0.00
2012-07-10	100.00	0.00	0.00	0.00	0.00	0.00
2012-07-17	100.00	0.00	0.00	0.00	0.00	0.00
2012-07-24	100.00	0.00	0.00	0.00	0.00	0.00
2012-07-31	100.00	0.00	0.00	0.00	0.00	0.00
2012-08-07	100.00	0.00	0.00	0.00	0.00	0.00
2012-08-14	100.00	0.00	0.00	0.00	0.00	0.00
2012-08-21	100.00	0.00	0.00	0.00	0.00	0.00
2012-08-28	100.00	0.00	0.00	0.00	0.00	0.00
2012-09-04	100.00	0.00	0.00	0.00	0.00	0.00
2012-09-11	100.00	0.00	0.00	0.00	0.00	0.00
2012-09-18	100.00	0.00	0.00	0.00	0.00	0.00
2012-09-25	100.00	0.00	0.00	0.00	0.00	0.00
2012-10-02	100.00	0.00	0.00	0.00	0.00	0.00
2012-10-09	100.00	0.00	0.00	0.00	0.00	0.00
2012-10-16	100.00	0.00	0.00	0.00	0.00	0.00
2012-10-23	100.00	0.00	0.00	0.00	0.00	0.00
2012-10-30	35.39	64.61	0.00	0.00	0.00	0.00
2012-11-06	16.90	83.10	0.00	0.00	0.00	0.00
2012-11-13	0.00	100.00	0.00	0.00	0.00	0.00
2012-11-20	0.00	100.00	0.00	0.00	0.00	0.00
2012-11-27	0.00	100.00	98.88	0.00	0.00	0.00
2012-12-04	0.00	100.00	98.52	0.00	0.00	0.00
2012-12-11	0.00	100.00	98.52	0.00	0.00	0.00
2012-12-18	0.00	100.00	98.52	0.00	0.00	0.00
2012-12-25	0.00	100.00	100.00	0.00	0.00	0.00
2013-01-01	0.00	100.00	100.00	0.00	0.00	0.00
2013-01-08	0.00	100.00	100.00	0.00	0.00	0.00
2013-01-15	0.00	100.00	100.00	0.00	0.00	0.00
2013-01-22	0.00	100.00	100.00	0.00	0.00	0.00
2013-01-29	0.00	100.00	100.00	100.00	0.00	0.00
2013-02-05	0.00	100.00	100.00	100.00	0.00	0.00
2013-02-12	0.00	100.00	100.00	100.00	0.00	0.00
2013-02-19	0.00	100.00	100.00	100.00	0.00	0.00
2013-02-26	0.00	100.00	88.68	0.00	0.00	0.00
2013-03-05	0.00	100.00	13.47	0.00	0.00	0.00
2013-03-12	0.00	100.00	13.47	0.00	0.00	0.00
2013-03-19	0.00	100.00	13.47	0.00	0.00	0.00
2013-03-26	91.45	8.55	0.00	0.00	0.00	0.00
2013-04-02	91.45	8.55	0.00	0.00	0.00	0.00
2013-04-09	100.00	0.00	0.00	0.00	0.00	0.00
2013-04-16	100.00	0.00	0.00	0.00	0.00	0.00
2013-04-23	100.00	0.00	0.00	0.00	0.00	0.00
2013-04-30	100.00	0.00	0.00	0.00	0.00	0.00
2013-05-07	100.00	0.00	0.00	0.00	0.00	0.00
2013-05-14	100.00	0.00	0.00	0.00	0.00	0.00
2013-05-21	100.00	0.00	0.00	0.00	0.00	0.00
2313-03-21	100.00	0.00	0.00	0.00	0.00	0.00

Week 📤		D0 D1 A	D. D	D0 D4	D0 D4 A	5.1 A
Week	None 🔷	D0-D4 ♦	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2013-05-28	100.00	0.00	0.00	0.00	0.00	0.00
2013-06-04	100.00	0.00	0.00	0.00	0.00	0.00
2013-06-11	100.00	0.00	0.00	0.00	0.00	0.00
2013-06-18	100.00	0.00	0.00	0.00	0.00	0.00
2013-06-25	100.00	0.00	0.00	0.00	0.00	0.00
2013-07-02	100.00	0.00	0.00	0.00	0.00	0.00
2013-07-09	100.00	0.00	0.00	0.00	0.00	0.00
2013-07-16	100.00	0.00	0.00	0.00	0.00	0.00
2013-07-23	100.00	0.00	0.00	0.00	0.00	0.00
2013-07-30	100.00	0.00	0.00	0.00	0.00	0.00
2013-08-06	100.00	0.00	0.00	0.00	0.00	0.00
			0.00		0.00	0.00
2013-08-20	100.00	0.00	0.00	0.00	0.00	
2013-08-27	100.00	0.00	0.00	0.00	0.00	0.00
2013-09-03		0.00	0.00	0.00	0.00	0.00
2013-09-17	100.00	0.00	0.00	0.00	0.00	0.00
	100.00					
2013-09-24	100.00	0.00	0.00	0.00	0.00	0.00
2013-10-01	100.00	0.00	0.00	0.00	0.00	0.00
2013-10-05	100.00	0.00	0.00	0.00	0.00	0.00
2013-10-13	94.22	5.78	0.00	0.00	0.00	0.00
2013-10-29	94.22	5.78	0.00	0.00	0.00	0.00
2013-11-05	94.22	5.78	0.00	0.00	0.00	0.00
2013-11-12	94.22	5.78	0.00	0.00	0.00	0.00
2013-11-19	94.22	5.78	0.00	0.00	0.00	0.00
2013-11-26	94.22	5.78	0.00	0.00	0.00	0.00
2013-12-03	94.22	5.78	0.00	0.00	0.00	0.00
2013-12-10	94.22	5.78	0.00	0.00	0.00	0.00
2013-12-17	94.22	5.78	0.00	0.00	0.00	0.00
2013-12-24	94.22	5.78	0.00	0.00	0.00	0.00
2013-12-31	97.26	2.74	0.00	0.00	0.00	0.00
2014-01-07	97.26	2.74	0.00	0.00	0.00	0.00
2014-01-14	100.00	0.00	0.00	0.00	0.00	0.00
2014-01-21	100.00	0.00	0.00	0.00	0.00	0.00
2014-01-28	100.00	0.00	0.00	0.00	0.00	0.00
2014-02-04	100.00	0.00	0.00	0.00	0.00	0.00
2014-02-11	100.00	0.00	0.00	0.00	0.00	0.00
2014-02-18	100.00	0.00	0.00	0.00	0.00	0.00
2014-02-25	100.00	0.00	0.00	0.00	0.00	0.00
2014-03-04	100.00	0.00	0.00	0.00	0.00	0.00
2014-03-11	100.00	0.00	0.00	0.00	0.00	0.00
2014-03-18	100.00	0.00	0.00	0.00	0.00	0.00
2014-03-25	100.00	0.00	0.00	0.00	0.00	0.00
2014-04-01	100.00	0.00	0.00	0.00	0.00	0.00
2014-04-08	100.00	0.00	0.00	0.00	0.00	0.00
2014-04-15	100.00	0.00	0.00	0.00	0.00	0.00
2014-04-22	100.00	0.00	0.00	0.00	0.00	0.00
2014-04-29	100.00	0.00	0.00	0.00	0.00	0.00
2014-05-06	100.00	0.00	0.00	0.00	0.00	0.00
2014-05-13	100.00	0.00	0.00	0.00	0.00	0.00
2014-05-20	100.00	0.00	0.00	0.00	0.00	0.00
2014-05-27	100.00	0.00	0.00	0.00	0.00	0.00
2014-06-03	100.00	0.00	0.00	0.00	0.00	0.00
2014-06-10	100.00	0.00	0.00	0.00	0.00	0.00
		•				'

Week	None 🔷	D0-D4 🔷	D1-D4 🔷	D2-D4 🔷	D3-D4 🔷	D4 🔷
2014-06-17	100.00	0.00	0.00	0.00	0.00	0.00
2014-06-24	100.00	0.00	0.00	0.00	0.00	0.00
2014-07-01	100.00	0.00	0.00	0.00	0.00	0.00
2014-07-08	100.00	0.00	0.00	0.00	0.00	0.00
2014-07-15	100.00	0.00	0.00	0.00	0.00	0.00
2014-07-22	60.59	39.41	0.00	0.00	0.00	0.00
2014-07-29	1.88	98.12	0.00	0.00	0.00	0.00
2014-08-05	1.88	98.12	0.00	0.00	0.00	0.00
2014-08-12	1.88	98.12	0.00	0.00	0.00	0.00
2014-08-19	1.58	98.42	0.00	0.00	0.00	0.00
2014-08-26	1.14	98.86	19.95	0.00	0.00	0.00
2014-09-02	0.00	100.00	24.91	0.00	0.00	0.00
2014-09-09	0.00	100.00	0.00	0.00	0.00	0.00
2014-09-16	0.00	100.00	0.00	0.00	0.00	0.00
2014-09-23	3.60	96.40	0.00	0.00	0.00	0.00
2014-09-30	100.00	0.00	0.00	0.00	0.00	0.00
2014-10-07	100.00	0.00	0.00	0.00	0.00	0.00
2014-10-14	100.00	0.00	0.00	0.00	0.00	0.00
2014-10-21	100.00	0.00	0.00	0.00	0.00	0.00
2014-10-28	100.00	0.00	0.00	0.00	0.00	0.00
2014-11-04	100.00	0.00	0.00	0.00	0.00	0.00
2014-11-11	100.00	0.00	0.00	0.00	0.00	0.00
2014-11-18	1.43	98.57	0.00	0.00	0.00	0.00
2014-11-25	100.00	0.00	0.00	0.00	0.00	0.00
2014-12-02	100.00	0.00	0.00	0.00	0.00	0.00
2014-12-09	100.00	0.00	0.00	0.00	0.00	0.00
2014-12-16	100.00	0.00	0.00	0.00	0.00	0.00
2014-12-23	100.00	0.00	0.00	0.00	0.00	0.00
2014-12-30	100.00	0.00	0.00	0.00	0.00	0.00
2015-01-06	100.00	0.00	0.00	0.00	0.00	0.00
2015-01-13	100.00	0.00	0.00	0.00	0.00	0.00
2015-01-20	100.00	0.00	0.00	0.00	0.00	0.00
2015-01-27	100.00	0.00	0.00	0.00	0.00	0.00
2015-02-03	100.00	0.00	0.00	0.00	0.00	0.00
2015-02-10	100.00	0.00	0.00	0.00	0.00	0.00
2015-02-17	100.00	0.00	0.00	0.00	0.00	0.00
2015-02-24	100.00	0.00	0.00	0.00	0.00	0.00
2015-03-03	100.00	0.00	0.00	0.00	0.00	0.00
2015-03-10	100.00	0.00	0.00	0.00	0.00	0.00
2015-03-17	100.00	0.00	0.00	0.00	0.00	0.00
2015-03-24	100.00	0.00	0.00	0.00	0.00	0.00
2015-03-31	100.00	0.00	0.00	0.00	0.00	0.00
2015-04-07	100.00	0.00	0.00	0.00	0.00	0.00
2015-04-14	100.00	0.00	0.00	0.00	0.00	0.00
2015-04-21	100.00	0.00	0.00	0.00	0.00	0.00
2015-04-28	33.93	66.07	0.00	0.00	0.00	0.00
2015-05-05	33.93	66.07	0.00	0.00	0.00	0.00
2015-05-12	0.10	99.90	0.00	0.00	0.00	0.00
2015-05-19	0.10	99.90	0.00	0.00	0.00	0.00
2015-05-26	0.02	99.98	0.00	0.00	0.00	0.00
2015-06-02	0.03	99.97	73.54	0.00	0.00	0.00
2015-06-09	11.43	88.57	49.07	0.00	0.00	0.00
2015-06-16	11.43	88.57	53.09	0.00	0.00	0.00
2015-06-23	11.43	88.57	53.09	0.00	0.00	0.00
2015-06-30	11.43	88.57	36.70	0.00	0.00	0.00
2310-00-00	11.40	00.01	30.70	0.00	0.00	0.00

Week	_	None	D0-D4 ♦	D1-D4 =		D2-D4 🔷	D3-D4 👙	D4 🔷
2015-07-07		11.43	88.57	36.70		0.00	0.00	0.00
2015-07-14		11.43	88.57	36.70		0.00	0.00	0.00
2015-07-21		11.43	88.57	36.70		0.00	0.00	0.00
2015-07-28		11.80	88.20	2.21		0.00	0.00	0.00
2015-08-04		23.24	76.76	0.00		0.00	0.00	0.00
2015-08-11		23.24	76.76	0.00		0.00	0.00	0.00
2015-08-18		8.31	91.69	0.00		0.00	0.00	0.00
2015-08-25		2.39	97.61	0.00		0.00	0.00	0.00
2015-09-01		15.01	84.99	0.00		0.00	0.00	0.00
2015-09-08		100.00	0.00	0.00		0.00	0.00	0.00
2015-09-15		99.94	0.06	0.00		0.00	0.00	0.00
2015-09-22		99.94	0.06	0.00		0.00	0.00	0.00
2015-09-29		99.93	0.07	0.00		0.00	0.00	0.00
2015-10-06		99.93	0.07	0.00		0.00	0.00	0.00
2015-10-13		84.05	15.95	0.00		0.00	0.00	0.00
2015-10-20		84.05	15.95	0.00		0.00	0.00	0.00
2015-10-27		84.04	15.96	0.00		0.00	0.00	0.00
2015-11-03		84.04	15.96	0.00		0.00	0.00	0.00
2015-11-10		100.00	0.00	0.00		0.00	0.00	0.00
2015-11-17		100.00	0.00	0.00		0.00	0.00	0.00
2015-11-24		98.06	1.94	0.00		0.00	0.00	0.00
2015-12-01		98.06	1.94	0.00		0.00	0.00	0.00
2015-12-08		0.00	100.00	0.00		0.00	0.00	0.00
2015-12-15		0.00	100.00	0.00		0.00	0.00	0.00
2015-12-22		0.00	100.00	0.00	-	0.00	0.00	0.00
2015-12-29		0.00	100.00	0.00		0.00	0.00	0.00
2016-01-05		0.00	100.00	0.00		0.00	0.00	0.00
2016-01-12		0.00	100.00	0.00		0.00	0.00	0.00
2016-01-19		0.00	100.00	0.00		0.00	0.00	0.00
2016-01-26		0.00	100.00	0.00		0.00	0.00	0.00
2016-02-02		0.00	100.00	0.00		0.00	0.00	0.00
2016-02-09		100.00	0.00	0.00		0.00	0.00	0.00
2016-02-16		100.00	0.00	0.00		0.00	0.00	0.00
2016-02-23		100.00	0.00	0.00		0.00	0.00	0.00
2016-03-01		86.50	13.50	0.00		0.00	0.00	0.00
2016-03-08		20.85	79.15	0.00		0.00	0.00	0.00
2016-03-15		20.85	79.15	0.00		0.00	0.00	0.00
2016-03-22		20.85	79.15	0.00		0.00	0.00	0.00
2016-03-29		76.97	23.03	0.00		0.00	0.00	0.00
2016-04-05		100.00	0.00	0.00		0.00	0.00	0.00
2016-04-12		100.00	0.00	0.00		0.00	0.00	0.00
2016-04-19		100.00	0.00	0.00		0.00	0.00	0.00
2016-04-26		100.00	0.00	0.00		0.00	0.00	0.00
2016-05-03		100.00	0.00	0.00		0.00	0.00	0.00
2016-05-10		100.00	0.00	0.00		0.00	0.00	0.00
2016-05-17		100.00	0.00	0.00		0.00	0.00	0.00
2016-05-24		100.00	0.00	0.00		0.00	0.00	0.00
2016-05-31		100.00	0.00	0.00		0.00	0.00	0.00
2016-06-07		100.00	0.00	0.00	-	0.00	0.00	0.00
2016-06-14		100.00	0.00	0.00		0.00	0.00	0.00
2016-06-21		100.00	0.00	0.00		0.00	0.00	0.00
2016-06-28		100.00	0.00	0.00		0.00	0.00	0.00
2016-07-05		100.00	0.00	0.00		0.00	0.00	0.00
2016-07-12		100.00	0.00	0.00		0.00	0.00	0.00
2016-07-19		100.00	0.00	0.00		0.00	0.00	0.00
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4/6/2017 Tabular Data Archive



Showing 1 to 901 of 901 entries

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Storm Events Database

Search Results for Pierce County, Georgia

Event Types: Cold/Wind Chill, Freezing Fog, Frost/Freeze, Heavy Snow, Ice Storm, Sleet, Winter Storm, Winter Weather

Pierce county contains the following zones:

2 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

Number of County/Zone areas affected:	1
Number of Days with Event:	2
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	2

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By:	Date/Time	(Oldest)	▼
----------	-----------	----------	---

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	<u>Mag</u>	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	0	0.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	02/12/2010	19:03	EST-5	Winter Storm		0	0	0.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	01/29/2014	10:30	EST-5	Sleet		0	0	0.00K	0.00K
Totals:								0	0	0.00K	0.00K





Storm Events Database

Search Results for Pierce County, Georgia

Event Types: Wildfire

Pierce county contains the following zones:

0 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

<u></u>	
Number of County/Zone areas affected:	0
Number of Days with Event:	0
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	0
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	0

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By: Date/Time (Oldest) ▼

Location	<u>County/Zone</u>	<u> 31.</u>	Date	<u> iiiie</u>	<u>1.2.</u>	<u>type</u>	iviag	<u>Dill</u>	ш	<u>PIU</u>	CID
Totals:								0	0	0.00K	0.00K





Storm Events Database

Search Results for Pierce County, Georgia

Event Types: Hurricane (Typhoon), Tropical Storm

Pierce county contains the following zones:

3 events were reported between 01/01/1950 and 12/31/2016 (24472 days)

Summary Info:

<u></u>	
Number of County/Zone areas affected:	1
Number of Days with Event:	3
Number of Days with Event and Death:	0
Number of Days with Event and Death or Injury:	1
Number of Days with Event and Property Damage:	0
Number of Days with Event and Crop Damage:	0
Number of Event Types reported:	1

Column Definitions:

'Mag': Magnitude, 'Dth': Deaths, 'Inj': Injuries, 'PrD': Property Damage, 'CrD': Crop Damage

Click on Location below to display details.

Available Event Types have changed over time. Please refer to the <u>Database Details</u> for more information.

Sort By:	Date/Time	(Oldest)	▼

<u>Location</u>	County/Zone	<u>St.</u>	<u>Date</u>	<u>Time</u>	<u>T.Z.</u>	<u>Type</u>	Mag	<u>Dth</u>	<u>lnj</u>	<u>PrD</u>	<u>CrD</u>
Totals:								0	1	0.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	09/05/2004	00:01	EST	Tropical Storm		0	0	0.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	09/25/2004	12:00	EST	Tropical Storm		0	0	0.00K	0.00K
PIERCE (ZONE)	PIERCE (ZONE)	GA	09/01/2016	07:00	EST-5	Tropical Storm		0	1	0.00K	0.00K
Totals:								0	1	0.00K	0.00K

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
								Essential,			
	Altamaha	Blackshear	717 Cameron					Vulnerable			
11702	Homecare, Inc.	city	Drive	Blackshear	GA	31516	Medical, Clinics	Population	Nursing Homes	1031700.00	
							Emergency		Government -		
	Bearville Volunteer	Blackshear					Services, Fire		Emergency		
3583	Fire Department	city	Rt 1,box 714	Blackshear	GA	31516	Fighters	Essential	Response	300000.00	6000.00
	Blackshear Church	Blackshear	411 W Carter								
28006	of God	city	Ave	Blackshear	GA	31516	NGO, Private		> 50 units	91647.00	
									Government -		
	Blackshear City	Blackshear					Government, City		Emergency		
3643	Hall/Jail	city	318 E Taylor St	Blackshear	GA	31516	Hall	Essential	Response	994200.00	227500.00
							Emergency		Government -		
		Blackshear					Services, Fire		Emergency		
11922	Blackshear FD	city	Carter Avenue	Blackshear	GA	31516	Fighters	Essential	Response	367200.00	50000.00
							Emergency		Government -		
		Blackshear	219 Nichols				Services, Fire		Emergency		
11923	Blackshear FD	city	Street	Blackshear	GA	31516	Fighters	Essential	Response	683100.00	50000.00
								Special			
								Consideration,			
	Blackshear Housing	Blackshear	Ware, Pomery,				Government,	Vulnerable			
11927	Auth-234 Housing	city	Napier Street	Blackshear	GA	31516	Private	Population	5 to 9 units	3756000.00	
								Special			
			Hendry,					Consideration,			
	Blackshear Housing	Blackshear	McDuffie				Government,	Vulnerable			
11930	Auth-Fannie Gray	city	Streets	Blackshear	GA	31516	Private	Population	20 to 49 units	7462500.00	
								Special			
								Consideration,			
	Blackshear Housing	Blackshear	Sycamore and				Government,	Vulnerable			
11929	Auth-Lee Darling	city	Oden Streets	Blackshear	GA	31516	Private	Population	5 to 9 units	1470000.00	
								Special			
								Consideration,			
	Blackshear Housing	Blackshear	Yeomans and				Government,	Vulnerable			
11933	Auth-Ware Street	city	Ware Street	Blackshear	GA	31516	Private	Population	10 to 19 units	3402000.00	
								Historic	Government -		
		Blackshear						Consideration,	General		
11936	Anderson Library	city	424 Lee Street	Blackshear	GA	31516	NGO, Library	Important	Services	692700.00	
	Blackshear Pierce						Government,		Government -		
	County	Blackshear					Government		General		
11955	Recreation	city	Youmans Street	Blackshear	GA	31516	Offices	1	Services	375000.00	10000.00

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
									Government -		
	Blackshear Police	Blackshear	219 Nichols				Law Enforcement,		Emergency		
11940	Department	city	Street	Blackshear	GA	31516	Police	Essential	Response	804600.00	64800.00
	Blackshear							Important,	Churches and		
		Blackshear	432 Main					Vulnerable	Non-Profit		
44057	Presbyterian Child			Dia alsala a a s	C 4	24546	Education Duals			2004400 00	
11957	Care	city	Street	Blackshear	GA	31516	Education, Pre K	Population	Organizations Government -	2084100.00	
	Dia alvaha an Dvhiia	Diaglahaan	211 Niekala				Government,				
42240	Blackshear Public	Blackshear 	211 Nichols			24546	Government		General	700000 00	64000 00
13318	Works	city	Street	Blackshear	GA	31516	Offices	Transportation	Services	780000.00	64800.00
									Government -		
	Blackshear Sewer	Blackshear					Government,		General	40000000.00	
13319	Line System	city	Fox Trail Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services		
	Blackshear								Government -		
	Wastewater Lift	Blackshear	County Farm				Government,		General		
21181	Station	city	Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear								Government -		
	Wastewater Lift	Blackshear	Bob Bowen				Government,		General		
21184	Station	city	Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	110000.00
	Blackshear								Government -		
	Wastewater Lift	Blackshear					Government,		General		
13324	Station	city	Industrial Blvd.	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear								Government -		
	Wastewater Lift	Blackshear	County Farm				Government,		General		
21178	Station	city	Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear								Government -		
	Wastewater Lift	Blackshear	Sunny Meadows				Government,		General		
21179	Station	city	Drive	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear	, , , , , , , , , , , , , , , , , , ,					·		Government -		
	Wastewater Lift	Blackshear	U.S. Highway				Government,		General		
21180	Station	city	#84	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear	,					,		Government -		
	Wastewater Lift	Blackshear					Government,		General		
21182	Station	city	Marion Street	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear	,			<u>., , </u>	32310	1,000,,000,00		Government -	30000.00	
	Wastewater	Blackshear					Government,		General		
11966	Treatment	city	Fox Trail Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	2029500.00	170960.00
11300	Blackshear	City	TOX TIGHT NOGU	Diacksileal	- 07	31310	vvatci/Sewei	Lifellife	Government -	2023300.00	170500.00
	Wastewater	Blackshear	Grovehill				Government,		General		
13327	Treatment		Avenue	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	2029500.00	170960 00
1997/	пеаннени	city	Avenue	DIGCKSHEdI	GΑ	21210	water/sewer	LITETITIE	DEI VICES	2029300.00	1/0900.00

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
									Government -		
	Blackshear Water	Blackshear					Government,	Essential,	Emergency	40000000.00	
11967	Line System	city	Carter Avenue	Blackshear	GA	31516	Water/Sewer	Lifeline	Response		
	Blackshear Water								Government -		
	Well Pump	Blackshear					Government,	Essential,	Emergency		
3695	Treatment Plant	city	Carter Ave	Blackshear	GA	31516	Water/Sewer	Lifeline	Response	1000000.00	
	Blackshear Water								Government -		
		Diaglahaan	FOF Management				C	Facantial			
	Well Pump	Blackshear	505 Memory		۵.	2.5.6	Government,	Essential,	Emergency		
13329	Treatment	city	Street	Blackshear	GA	31516	Water/Sewer	Lifeline	Response	1524600.00	274990.00
	Blackshear Water								Government -		
	Well Pump	Blackshear	Bowen Road at				Government,		Emergency		
21161	Treatment		Sundance Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Response	1043100.00	
21101	Heatment	city	Sulluance Roau	BiackSileai	GA	31310	water/sewer	LITETITIE	Government -	1043100.00	
	City of Blackshear	Blackshear					Government,	Essential,	Emergency		
3696	Water Tank	city	Mimosa	Blackshear	GA	31516	Water/Sewer	Lifeline	Response	1000000.00	
3030	vvater rank	city	IVIIIIIOSa	BiackSileai	GA	31310	water/sewer	Special	Response	1000000.00	
								Consideration,			
		Blackshear	310 Pomeroy				Government,	Vulnerable			
13330	Country Manor		,	Blackshear	GA	31516	ĺ	Population	> 50 units	9370200.00	
13330	Head Start	city	Street	DiackSileai	GA	31310	Private	Essential,	Government -	9370200.00	
	Concerted	Blackshear	619 Grady					Vulnerable	Emergency	12750000.00	
12046			•	Blackshear	GA	31516	Education V 12	Population		12730000.00	69500.00
12046	Services	city	Street	Biacksriear	GA	31310	Education, K - 12	Essential,	Response		09500.00
	Kimbrell Veterinary	Plackshoar	3141 West					Vulnerable	Medical Office		
11979	Clinic			Blackshear	GA	31516	Medical, Private	Population	and Clinic	574200.00	
11979	Cillic	city	Highway #84	DiackSileai	GA	31310	ivieuicai, Private	Population	Government -	374200.00	
	New Pierce County	Plackshoar	705 College				Government,		General		
21202	, ·		_	Blackshear	GA	31516		lmnortont		3000000.00	
21202	Library	city	Avenue	Biacksriear	GA	31310	Library	Important	Services	3000000.00	
									Grade Schools		
	Pierce County BOE	Blackshear	4746 County				Government,		and Admin.		
21201	Bus Barn	city	Farm Rd	Blackshear	GA	31516	Transportation	Important	Offices	1800000.00	62800 00
	Das Barri	O.C.y	- armina	Diackoncai		31310	Transportation	Essential,	Government -	1300000.00	02000.00
	Pierce County BOE	Blackshear	4850 County					Vulnerable	Emergency	51038700.00	
12043	High School	city	Farm Road	Blackshear	GA	31516	Education, K - 12	Population	Response	32000,00.00	3335900.00
12043	i ligii ocilooi	CILY	i ai iii Noau	Piacksileai	ūΑ	21310	Luucation, K - 12	i opulation	response		2222300.00

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
	Pierce County BOE								Grade Schools		
	Maintenance	Blackshear	834B E. Main				Government,		and Admin.		
21200	Facility	city	Street	Blackshear	GA	31516	Transportation	Important	Offices	1881000.00	108000.00
								Essential,	Government -		
	Pierce County BOE	Blackshear	5216 Country					Vulnerable	Emergency	34561500.00	
1178	Middle School	city	Farm Rd.	Blackshear	GA		Education, K - 12	Population	Response		1769700.00
							Government,	Important,	Grade Schools		
	Pierce County BOE		834 E Main				Government	Vulnerable	and Admin.		
12040	Offices	city	Street	Blackshear	GA	31516	Offices	Population	Offices	3109800.00	161100.00
	Diorco County						Covernment	Essential,	Government -		
	Pierce County Centralized	Blackshear	711 Hondry				Government, Government	Vulnerable			
12007			711 Hendry	Diaglashaan	C A	21516			Emergency	7242600 00	10000 00
12097	Resource Center Pierce County	city	Street	Blackshear	GA	31516	Offices Government,	Population	Response Government -	7242600.00	10000.00
	Health	Blackshear	715 Ware				Government				
12096			Street	Blackshear	GA	31516	Offices	Essential	Emergency Response	1927800.00	
12096	Department	city	Street	DiackSileai	GA	31310	Offices	Essential,	Response	1927800.00	
	Pierce County	Blackshear	221 Carter				Government,	Vulnerable		12476400.00	
12098	Nursing Home	city	Avenue	Blackshear	GA	31516	Private	Population	Nursing Homes	12470400.00	600000.00
12036	Nutsing Home	City	Avenue	Diacksileai	GA.	31310	Government,	ropulation	Government -		000000.00
	Pierce County	Blackshear	4746 County				Government		General		
12100	Road Department	city	Farm Rd	Blackshear	GA	31516	Offices	Transportation	Services	1987200.00	54971.00
	nous Populations	o.cy		2.acmonea.		01010	56 55	sportation	50.1.005	1507100.00	3 .37 1.00
	USDA Farmer's						Government,		Government -		
	Home Admin/Farm	Blackshear	705 College				Government		Emergency		
12110	Svc.	city	Avenue	Blackshear	GA	31516	Offices	Essential	Response	1440000.00	
		,					Government,		Government -		
	USPO- Blackshear	Blackshear	327 East Main				Government		General		
12111	#1	city	Street	Blackshear	GA	31516	Offices	Important	Services	1087200.00	
							Government,		Government -		
	USPO Blackshear	Blackshear					Government		General		
12112	#2	city	US #84	Blackshear	GA	31516	Offices	Important	Services	2570400.00	
								Special			
								Consideration,			
	Village Apartments		940 Ware				Government,	Vulnerable		12367500.00	
13331	of Blackshear	city	Street	Blackshear	GA	31516	Private	Population	> 50 units		
	Offerman Baptist		8056 Georgia								
28007	Church	Offerman	38	Patterson	GA	31557	NGO, Private		> 50 units	54432.00	

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
							Government,		Government -		
	Offerman City		6113 Carter				Government		Emergency		
11987	Hall	Offerman	Drive	Offerman	GA	31556	Offices	Essential	Response	720000.00	40517.00
									Government -		
	Offerman Water						Government,		Emergency		
21197	Well & Pump	Offerman	Carter Drive	Offerman	GA	31556	Water/Sewer	Essential	Response	5000.00	
							Government,		Government -		
							Government		General		
12115	USPO-Offerman	Offerman	7203 U.S. #84	Offerman	GA	31556	Offices	Important	Services	163800.00	
	City Hall/Police						Government,		Government -		
	Dept/Adult	Patterson	3531 Williams				Government		General		
21196	Education	city	Street	Patterson	GA	31557	Offices	Essential	Services	5400000.00	
									Government -		
	County EMS	Patterson	5535 Gardner						Emergency		
12027	Station #2	city	Street	Patterson	GA	31557	Government, EMS	Essential	Response	2160300.00	243200.00
							Government,		Government -		
	GA DOT	Patterson	660 Highway				Government	Important,	General		
11975	Maintenance HQ	city	#84	Patterson	GA	31557	Offices	Transportation	Services	600000.00	
							Government,	·	Government -		
	GA Forestry	Patterson	6047 East Main				Government		Emergency		
11977	Commission	city	Street	Patterson	GA	31557	Offices	Essential	Response	1750500.00	
									·		
	Patterson (Water								Government -		
	Reclamation	Patterson	3471 James				Government,		General		
3666	Center)	city	Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services	1000000.00	107925.00
	Patterson Baptist	Patterson									
28008	Church	city	5770 Main St.	Patterson	GA	31557	NGO, Private		> 50 units	271625.00	
							Government,		Government -		
	Patterson	Patterson	6190 Industrial				Government		General		
12035	Recreation	city	Blvd.	Patterson	GA	31537	Offices		Services	744000.00	33400.00
							Government,		Government -		
	Patterson	Patterson	3515 Williams				Government		General		
12029	Recreation/Gym	city	Street	Patterson	GA	31557	Offices		Services	2100000.00	65700.00
									Government -		
	Patterson Sewer	Patterson	3471 James				Government,		General	25000000.00	
14439	Line System	city	Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services		
							Government,		Government -		
		Patterson	6335 Highway				Government		General		
12036	Patterson Shop	city	#84	Patterson	GA	31557	Offices	Important	Services	702000.00	98900.00

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
	Patterson								Government -		
	Wastewater Lift	Patterson	U.S. Highway				Government,		General		
21188	Station	city	#84	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21189	Station	city	Dallas Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21191	Station	city	Dereck Lane	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21187	Station	city	Lucas Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21192	Station	city	James Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21193	Station	city	Walker Road	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Patterson								Government -		
	Wastewater Lift	Patterson					Government,		General		
21194	Station	city	Hyers Street	Patterson	GA	31557	Water/Sewer	Lifeline	Services	30000.00	1000000.00
									Government -		
	Patterson Water	Patterson	Tyre Bridge				Government,	Essential,	Emergency	25000000.00	
13334	Line System	city	Road	Patterson	GA	31557	Water/Sewer	Lifeline	Response		
									Government -		
	Patterson Water	Patterson	6542 U.S.				Government,		General		
21186	Storage Tank	city	Highway #84	Patterson	GA	31557	Water/Sewer	Lifeline	Services	750000.00	
	L										
	Patterson Water		T D : 1						Government -		
	Well Pump	Patterson	Tyre Bridge				Government,	Essential,	Emergency		
12037	Treatment	city	Road	Patterson	GA	31557	Water/Sewer	Lifeline	Response	1000000.00	
	Pierce County BOE	D - 44	244.4 Duranda					Essential,	Government -	47070400 00	
12015	Patterson	Patterson	3414 Drawdy	.		24557	51 11 11 14 13	Vulnerable	Emergency	17078100.00	007000 00
12045	Elementary	city	Street	Patterson	GA	31557	Education, K - 12	Population	Response		907900.00
	Can China Vida	Dottorssi	2224 Darassadis				Education,				
20005	Son Shine Kids	Patterson	3224 Drawdy	Dattage	C 4	24557	Education, Day		> FO	165533.00	
28005	Daycare	city	Rd 5519 East	Patterson	GA	31557	Care, Day Care	Important	> 50 units	165523.00	
		Dattorson					Education,	Important, Vulnerable	Drofossional/Tas		
12100	The Dlavk	Patterson	Railroad	Dottorssis	C A	21557	Education, Day		Professional/Tec		
12109	The Playhouse	city	Avenue	Patterson	GA	31557	Care, Day Care	Population	hnical Services	338400.00	

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
				į			Government,		Government -		
		Patterson	6489 Highway				Government		General		
12116	USPO Patterson	city	#84	Patterson	GA	31557	Offices	Important	Services	489300.00	
		<i>'</i>							Government -		
	Blackshear Landfill	Pierce	5358 Brown				Government,		General		
13309	Building	County	Lane	Blackshear	GA	31516	Landfill	Important	Services	96000.00	
	Blackshear	,						i i	Government -		
	Wastewater Lift	Pierce					Government,		General		
21183	Station	County	Hendry Street	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
	Blackshear	,	, , , , , , , , , , , , , , , , , , , ,						Government -		
	Wastewater Lift	Pierce	Highway 121				Government,		General		
13323	Station	County	South	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
10010	Blackshear	County	334	Dia dia non		02020	11446.766116.		Government -	55555.55	100000.00
	Wastewater Lift	Pierce					Government,		General		
13326	Station	County	Session Hill	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
13320	Blackshear	county	3633101111111	Brackstream	U/ C	31310	vace, sever	Lifetific	Government -	30000.00	100000.00
	Wastewater Lift	Pierce					Government,		General		
21185	Station	County	Youman's Road	Blackshear	GA	31516	Water/Sewer	Lifeline	Services	30000.00	100000.00
21103	Station	County	Tournair 3 Road	Diacksilear	GA.	31310	Water/sewer	Liiciiiic	JCT VICC3	30000.00	100000.00
	Garden View							Essential,			
	Retirement	Pierce	6134 College					Vulnerable			
11973	Assisted Living	County	Avenue	Blackshear	GA	31516	NGO, Private	Population	Nursing Homes	1059300.00	
113/3	Hacklebarney	County	7055	Diacksilear	GA.	31310	Emergency	Гориналоп	Government -	1033300.00	
	Volunteer Fire	Pierce	Hackelbarney				Services, Fire		Emergency		
3585	Department	County	Road	Blackshear	GA	31516	Fighters	Essential	Response	724800.00	
3363	Берагинени	County	Noau	Diacksileai	UA.	31310	Education,	Important,	Nesponse	724800.00	
		Pierce	5218 Highway				Education, Day	Vulnerable	Professional/Tec		
11980	Lollipop Kids		121	Blackshear	GA	31516	, ,	Population	hnical Services	2745600.00	
11960	Lollipop Kius	County	121	Diacksileai	GA	21210	Care, Day Care	Essential,	Titilical Services	2743000.00	
	Nasworthy Care	Pierce	4896 Stanfield				NGO, NGO, Private,	Vulnerable			
11984	Home			Datterson	GA	31557	Private		Nursing Homos	632100.00	
11984	Northside-	County	Road	Patterson	GA	31337	Private	Population	Nursing Homes	632100.00	
	Mershon						Emergency		Government -		
		Diores					, ,				
2507	Volunteer Fire	Pierce	laharan Barana	Dia diala a a a	C 4	24554	Services, Fire	F	Emergency	024000 00	
3587	Department Otter Creek	County	Johnson Bypass	Blackshear	GA	31551	Fighters	Essential	Response Government -	934800.00	
		Diores	FO42 Owens				Emergency				
2500	Volunteer Fire	Pierce	5942 Owens	District		24546	Services, Fire	F	Emergency	200702 00	
3590	Department	County	Road	Blackshear	GA	31516	Fighters	Essential	Response	398700.00	-
			705.0 "				Government,		Government -		
	Pierce County Ag	Pierce	705 College				Government	<u>_</u>	Emergency		
12039	Building	County	Avenue	Blackshear	GA	31516	Offices	Essential	Response	2771700.00	59900.00

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
	Pierce County BOE										
	Blackshear							Essential,	Government -		
	Elementary	Pierce	5217 North					Vulnerable	Emergency	44700000.00	
1180	School	County	Highway 121	Blackshear	GA	31516	Education, K - 12	Population	Response		1612400.00
	Pierce County BOE								Grade Schools		
	Midway	Pierce	3244 Midway					Vulnerable	and Admin.	20455200.00	
21160	Elementary	County	Church Road	Blackshear	GA	31516	Education, K - 12	Population	Offices		900000.00
	Pierce County										
	Courthouse								Government -		
	Commission	Pierce	312 Nichols				Government, Court		Emergency		
12049	Annex	County	Street	Blackshear	GA	31516	House	Essential	Response	6750000.00	220300.00
									Government -		
	Pierce County	Pierce					Law Enforcement.	Essential, Historic	Emergency		
3635	Courthouse	County	3550 W Hwy 84	Blackshear	GA	31516	Court House	Consideration	Response	5181600.00	525000.00
		, , ,									
							Emergency				
							Services,				
							Emergency				
							Services,		Government -		
	Pierce County EMS	Pierce	309 Pierce				Communications,		Emergency		
12067	911	County	Industrial Blvd.	Blackshear	GA	31516	Communications	Essential	Response	1448700.00	123500.00
	Pierce County FD						Emergency		Government -		
	· ·	Pierce	5535 Gardner				Services, Fire		Emergency		
3589	Department	County	Street	Patterson	GA	31557	Fighters	Essential	Response	122552.00	
3363	Department	County	Street	ratterson	UA.	31337	rigitters	L33EIItiai	Nesponse	122332.00	
	Pierce County FD-						Emergency		Government -		
	Offerman/Big	Pierce	6119 Carter				Services, Fire		Emergency		
12092	Creek	County	Drive	Offerman	GA	31556	Fighters	Essential	Response	600000.00	50000.00
								Essential, Special			
			300 Pierce					Consideration,	Government -		
		Pierce	Industrial				Law Enforcement,	Vulnerable	Emergency		
3547	Pierce County Jail	County	Boulevard	Blackshear	GA	31516	Jails	Population	Response	413115.00	
3347	Frence County Jan	County	Doulevalu	piackzijegi	GA	21210	าสแว	ropulation	neshouse	+13113.00	

										Building	Contents
Id	Name	Jurisdiction	Address	City	State	Zip	Facility Types	Risk	Occupancy	Value	Value
ı											
								Essential,			
								Vulnerable			
i			300 Pierce					Population,	Government -		
l	Pierce County	Pierce	Industrial				Law Enforcement,	Special	Emergency		
3626	Sheriff's Office	County	Boulevard	Blackshear	GA	31516	Sheriff	Consideration	Response	6141900.00	500000.00
İ	Sessions Hill								Government -		
l	Community	Pierce							General		
12107	Center	County	Allen Avenue	Blackshear	GA	31516	NGO, Private	Important	Services	1500000.00	
	Southside						Emergency		Government -		
l	Volunteer Fire	Pierce	4621 St. John's				Services, Fire		Emergency		
3584	Department	County	Church Road	Blackshear	GA	31516	Fighters	Essential	Response	388800.00	
							Emergency		Government -		
	Sunset Volunteer	Pierce	1436 Sunset				Services, Fire		Emergency		
3586	Fire Department	County	Road	Blackshear	GA	31516	Fighters	Essential	Response	405900.00	50000.00
							Government,		Government -		
		Pierce	2547 Highway				Government		General		
12114	USPO Mershon	County	#32	Blackshear	GA	31551	Offices	Important	Services	297600.00	
							Government,		Government -		
		Pierce	1983 Highway				Government		General		
12113	USPO-Bristol	County	#121	Blackshear	GA	31518	Offices	Important	Services	463800.00	
								Essential,			
l	Walker's Home	Pierce	5991 Trudie				NGO,	Vulnerable			
12117	Care	County	Road	Patterson	GA	31557	Water/Sewer	Population	Nursing Homes	713400.00	
	Walkerville						Emergency		Government -		
	Volunteer Fire	Pierce	3028 Walkerville				Services, Fire		Emergency		
21199	Department	County	Road	Blackshear	GA	31516	Fighters	Essential	Response	900000.00	

Appendix G



Hazard Risk Analyses Supplement to the Pierce County Joint Hazard Mitigation Plan



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Introduction

The Federal Disaster Mitigation Act of 2000 (DMA2K) requires state, local, and tribal governments to develop and maintain a mitigation plan to be eligible for certain federal disaster assistance and hazard mitigation funding programs.

Mitigation seeks to reduce a hazard's impacts, which may include loss of life, property damage, disruption to local and regional economies, and the expenditure of public and private funds for recovery. Sound mitigation must be based on a sound risk assessment that quantifies the potential losses of a disaster by assessing the vulnerability of buildings, infrastructure, and people.

In recognition of the importance of planning in mitigation activities, FEMA Hazus-MH, a powerful disaster risk assessment tool based on geographic information systems (GIS). This tool enables communities of all sizes to predict estimated losses from floods, hurricanes, earthquakes, and other related phenomena and to measure the impact of various mitigation practices that might help reduce those losses.

In 2017, the Georgia Department of Emergency Management partnered with The SOUTHERN GEORGIA REGIONAL COMMISSION (SGRC) to develop a detailed risk assessment focused on defining hurricane, riverine flood and tornado impacts for Georgia. This assessment identifies the characteristics and potential consequences of the disaster, how much of the community could be affected by the disaster, and the impact on community assets. In the following years, the Georgia Association of Regional Commissions (GARC) are utilizing this workflow to define impacts in other counties in Georgia. This document provides the results for Pierce County.

Risk Assessment Process Overview

Hazus-MH Version 2.2 SP1 was used to perform the analyses for Pierce County. The Hazus-MH application includes default data for every county in the US. This Hazus-MH data was derived from a variety of national sources and in some cases the data are also several years old. Whenever possible, using local provided data is preferred. Pierce County provided building inventory information from the county's property tax assessment system. This section describes the changes made to the default Hazus-MH inventory and the modeling parameters used for each scenario.

County Inventory Changes

The default Hazus-MH site-specific point inventory was updated using data compiled from the Georgia Emergency Management Agency (GEMA). The default Hazus-MH aggregate inventory (General Building Stock) was also updated prior to running the scenarios. Reported losses reflect the updated data sets.

General Building Stock Updates

General Building Stock (GBS) is an inventory category that consists of aggregated data (grouped by census geography — tract or block). Hazus-MH generates a combination of site-specific and aggregated loss estimates based on the given analysis and user input.

The GBS records for Pierce County were replaced with data derived from parcel and property assessment data obtained from Pierce County. The county provided property assessment data was current as of Decembe 2016 and the parcel data current as of January 2017. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary; then, each parcel point was linked to an assessor record based upon matching parcel numbers. The parcel assessor match-rate for Pierce County is 99.7%. The

generated building inventory represents the approximate locations (within a parcel) of structures. The building inventory was aggregated by census block. Both the tract and block tables were updated. Table 1 shows the results of the changes to the GBS tables by occupancy class.

Table 1: GBS Building Exposure Updates by Occupancy Class*

Occupancy Classification	Default Count	Updated Count	De	Default Exposure		dated Exposure
Agricultural	57	5	\$	11,623,000	\$	7,101,000
Commercial	383	408	\$	179,920,000	\$	237,011,000
Education	18	9	\$	17,722,000	\$	25,675,000
Government	11	34	\$	3,464,000	\$	20,523,000
Industrial	97	183	\$	50,131,000	\$	175,473,000
Religious	69	89	\$	35,321,000	\$	55,646,000
Residential	7691	8464	\$	1,075,760,000	\$	1,010,940,000
Total	8326	9192	\$	1,373,941,000	\$	1,532,369,000

^{*}The exposure values represent the total number and replacement cost for all Pierce County Buildings

For Pierce County, the updated GBS was used to calculate hurricane wind losses. The flood losses and tornado losses were calculated from building inventory modeled in Hazus-MH as User-Defined Facility (UDF)¹, or site-specific points. Figure 1 shows the distribution of buildings as points based on the county provided data.

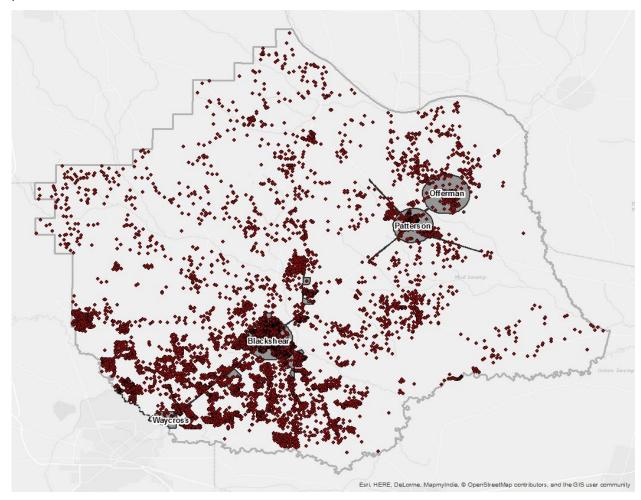


Figure 1: Pierce County Overview

¹ The UDF inventory category in Hazus-MH allows the user to enter site-specific data in place of GBS data.

Essential Facility Updates

The default Hazus-MH essential facility data was updated to reflect improved information available in the Georgia Mitigation Information System (GMIS). For these risk analyses, only GMIS data for buildings that Hazus-MH classified as Essential Facilities was integrated into Hazus-MH because the application provides specialized reports for these five types of facilities. Essential Facility inventory was updated for the analysis conducted for this report. The following table summarizes the counts and exposures, where available, by Essential Facility classification of the updated data for the county.

Essential facilities include:

- Care facilities
- EOCs
- Fire stations
- Police stations
- Schools

Table 2: Updated Essential Facilities

Classification	Updated Count	Upda	ted Exposure
	Pierce Coun	ty	
EOC	1	\$	880,000
Care	5	\$	15,911,000
Fire	12	\$	10,010,000
Police	7	\$	28,588,000
School	7	\$	25,455,000
Total	32	\$	80,844,000

Classification	Updated Count	Upda	ited Exposure
	Offerman		
EOC	0	\$	-
Care	0	\$	-
Fire	1	\$	600,000
Police	0	\$	-
School	0	\$	-
Total	1	\$	600,000

Classification	Updated Count	Upda	ted Exposure
	Blackshear		
EOC	1	\$	880,000
Care	2	\$	13,507,000
Fire	2	\$	1,050,000
Police	6	\$	26,027,000
School	5	\$	4,990,000
Total	16	\$	46,454,000

Classification	Updated Count	Upda	ated Exposure
	Patterson		
EOC	0	\$	-
Care	0	\$	-
Fire	2	\$	4,311,000
Police	1	\$	2,561,000
School	1	\$	-
Total	4	Ś	6.872.000

Assumptions and Exceptions

Hazus-MH loss estimates may be impacted by certain assumptions and process variances made in this risk assessment.

- The Pierce County analysis used Hazus-MH Version 2.2 SP1, which was released by FEMA in May 2015.
- County provided parcel and property assessment data may not fully reflect all buildings in the county. For example, some counties do not report not-for-profit buildings such as government buildings, schools and churches in their property assessment data. This data was used to update the General Building Stock as well as the User Defined Facilities applied in this risk assessment.
- GBS updates from assessor data will skew loss calculations. The following attributes were defaulted or calculated:
 - Foundation Type was set from Occupancy Class
 - First Floor Height was set from Foundation Type
 - Content Cost was calculated from Replacement Cost
- It is assumed that the buildings are located at the centroid of the parcel unless building footprints are used. For this analysis of Pierce County, parcel centroids were used.
- The essential facilities extracted from the GMIS were only used in the portion of the analysis designated as essential facility damage. They were not used in the update of the General Building Stock or the User Defined Facility inventory.

The hazard models included in this risk assessment included:

- Hurricane assessment which was comprised of a wind only damage assessment
- Flood assessment based on the 1% annual chance event that includes riverine assessments
- Tornado assessment based on GIS modeling

Hurricane Risk Assessment

Hazard Definition

The National Hurricane Center describes a hurricane as a tropical cyclone in which the maximum sustained wind is, at minimum, 74 miles per hour (mph)². The term hurricane is used for Northern Hemisphere tropical cyclones east of the International Dateline to the Greenwich Meridian. The term typhoon is used for Pacific tropical cyclones north of the Equator west of the International Dateline. Hurricanes in the Atlantic Ocean, Gulf of Mexico, and Caribbean form between June and November with the peak of hurricane season occurring in the middle of September. Figure 2 shows that many hurricanes have impacted the Atlantic and Gulf coasts of the United States.

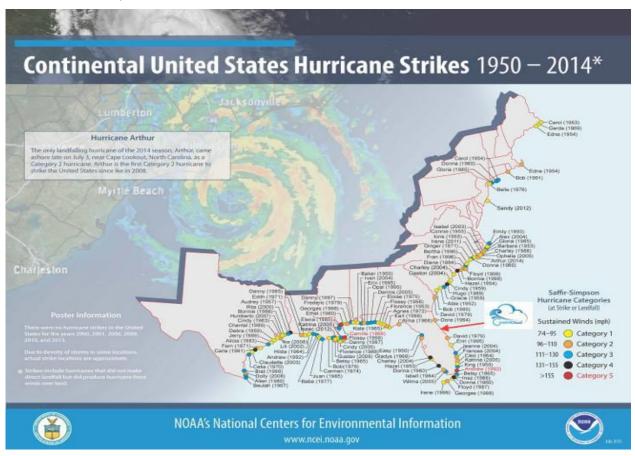


Figure 2: Continental United States Hurricane Strikes: 1950 to 2014^3 Hurricane intensities are measured using the Saffir-Simpson Hurricane Wind Scale (Table 3). This scale is a 1 to 5 categorization based on the hurricane's intensity at the indicated time.

² National Hurricane Center (2011). "Glossary of NHC Terms." National Oceanic and Atmospheric Administration. http://www.nhc.noaa.gov/aboutgloss.shtml#h. Retrieved 2-23-2012.

³ Source: NOAA National Climatic Data Center

Table 3: Saffir-Simpson Hurricane Wind Scale

Category	Wind Speed (mph)	Damage
1	74 – 95	Very dangerous winds will produce some damage
2	96 – 110	Extremely dangerous winds will cause extensive damage
3	111 - 130	Devastating damage will occur
4	131 -155	Catastrophic damage will occur
5	> 155	Catastrophic damage will occur

Hurricanes bring a complex set of impacts. The winds from a hurricane produce a rise in the water level at landfall called storm surge. Storm surges produce coastal flooding effects that can be as damaging as the hurricane's winds. Hurricanes bring very intense inland riverine flooding. Hurricanes can also produce tornadoes that can add to the wind damages inland. In this risk assessment, only hurricane winds, and coastal storm surge are considered.

The National Oceanic and Atmospheric Administration's National Hurricane Center created the HURDAT database, which contains all of the tracks of tropical systems since the mid-1800s. This database was used to document the number of tropical systems that have affected Pierce County by creating a 20-mile buffer around the county to include storms that didn't make direct landfall in Pierce County but impacted the county. Since 1851, Pierce County has had 65 tropical systems within 20 miles of its county borders (Table 4).

Table 4: Tropical Systems affecting Pierce County

Year	Month	Day	Name	Wind (Knots)	Category	Year	Month	Day	Name	Wind (Knots)	Category
1868	October	4	NOTNAMED	50	TS	1919	October	1	NOTNAMED	40	TS
1868	October	5	NOTNAMED	40	TS	1919	October	1	NOTNAMED	35	TS
1871	August	23	NOTNAMED	60	TS	1924	September	16	NOTNAMED	40	TS
1871	August	23	NOTNAMED	50	TS	1924	September	30	NOTNAMED	55	E
1871	October	6	NOTNAMED	40	TS	1946	October	8	NOTNAMED	35	TS
1871	October	6	NOTNAMED	40	TS	1947	September	24	NOTNAMED	50	TS
1873	June	2	NOTNAMED	40	TS	1947	September	24	NOTNAMED	45	TS
1873	September	19	NOTNAMED	60	TS	1947	October	8	NOTNAMED	25	TD
1877	September	20	NOTNAMED	40	TS	1947	October	15	NOTNAMED	75	H1
1877	September	20	NOTNAMED	40	TS	1947	October	15	NOTNAMED	65	H1
1878	October	11	NOTNAMED	40	TS	1953	September	27	FLORENCE	50	Е
1885	August	31	NOTNAMED	40	TS	1953	September	27	FLORENCE	40	E
1885	October	12	NOTNAMED	50	TS	1957	June	9	NOTNAMED	35	TS
1885	October	12	NOTNAMED	50	TS	1957	June	9	NOTNAMED	35	TS
1888	September	9	NOTNAMED	45	TS	1960	July	29	BRENDA	30	TD
1888	September	9	NOTNAMED	40	TS	1966	June	10	ALMA	55	TS
1893	June	16	NOTNAMED	50	TS	1966	June	10	ALMA	45	TS
1896	June	29	NOTNAMED	100	Н3	1968	June	7	ABBY	50	TS
1898	October	2	NOTNAMED	115	H4	1968	June	7	ABBY	50	TS
1898	October	2	NOTNAMED	90	H2	1970	May	25	ALMA	25	TD
1907	June	29	NOTNAMED	45	TS	1976	May	23	SUBTROP1	40	SS
1907	September	29	NOTNAMED	40	TS	1976	May	24	SUBTROP1	40	SS
1911	August	5	NOTNAMED	20	TD	1985	September	11	ISABEL	30	TD
1911	August	5	NOTNAMED	20	TD	1985	October	11	ISABEL	30	TD
1912	July	15	NOTNAMED	45	TS	1987	August	17	NOTNAMED	10	TD
1912	July	15	NOTNAMED	40	TS	1994	November	21	GORDON	20	TD
1912	September	6	NOTNAMED	30	TD	1994	November	21	GORDON	20	TD
1912	September	6	NOTNAMED	25	TD	1996	October	8	JOSEPHINE	45	Е
1914	September	17	NOTNAMED	60	TS	2000	September	18	GORDON	40	TS
1915	August	2	NOTNAMED	40	TS	2000	September	18	GORDON	30	TD
1915	August	3	NOTNAMED	40	TS	2004	August	12	BONNIE	30	TD
1916	October	4	NOTNAMED	50	TS	2005	October	6	TAMMY	45	TS
						2006	June	14	ALBERTO	35	TS

Category Definitions:

TS – Tropical storm

TD – Tropical depression

CAT_1 – Category 1 (same format for 2, 3, 4 and 5)

E – Extra-tropical cyclone

Probabilistic Hurricane Scenario

The following probabilistic wind damage risk assessment modeled a Category 1 storm with maximum winds of 84 mph.

Wind Damage Assessment

Wind losses were determined from probabilistic models run for the Category 1 storm which equates to the 1% chance storm event. Figure 3 shows wind speeds for the modeled hurricane.

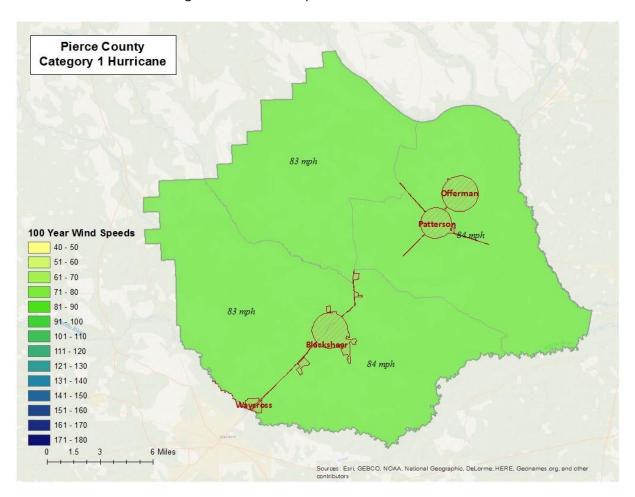


Figure 3: Wind Speeds by Storm Category

Wind-Related Building Damages

Buildings in Pierce County are vulnerable to storm events, and the cost to rebuild may have significant consequences to the community. The following table shows a summary of the results of wind-related building damage in Pierce County for the Category 1 (100 Year Event) storm. The loss ratio expresses building losses as a percentage of total building replacement cost in the county. Figure 4 illustrates the building loss ratios of the modeled Category 1 storm.

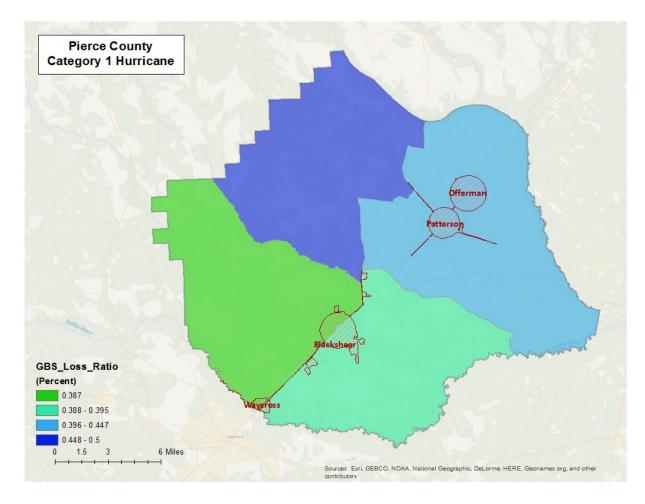


Figure 4: Hurricane Wind GBS Loss Ratios

Table 5 shows the Hurricane Wind Building Damage results including the number of buildings damaged, total building damage, and economic loss.

Table 5: Hurricane Wind Building Damage

Storm	Number of	Building	То	tal Economic	
Classification	Damaged Buildings	Damages		Loss	Loss Ratio
Category 1	260	\$ 8,763,220	\$	9,315,310	0.41

Essential Facility Losses

Essential facilities are also vulnerable to storm events, and the potential loss of functionality may have significant consequences to the community. Hazus-MH identified the essential facilities that may be moderately or severely damaged by winds. The results are compiled in Table 6.

There are 32 essential facilities in Pierce County.

Classification	Number
EOC	1
Care	5
Fire	12
Police	7
School	7
Total	32

Table 6: Wind-Damaged Essential Facility Losses

Storm Classification	Facilities Moderately Damaged (>50%)	Facilities Completely Damaged (>50%)	Facilities with expected loss (<1day)
Category 1	0	0	32

Shelter Requirements

Hazus-MH estimates the number of households evacuated from buildings with severe damage from high velocity winds as well as the number of people who will require short-term sheltering. The results are listed in Table 7 and mapped in Figure 5.

Table 7: Displaced Households and People

Storm Classification	# of Displaced Households	# of People Needing Short-Term Shelter
Category 1	1	0

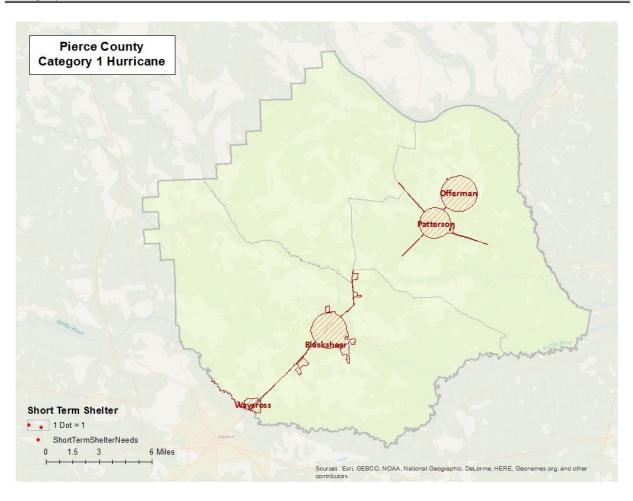


Figure 5: Hurricane Wind Shelter Requirements

Debris Generated from Hurricane Wind

Hazus-MH estimates the amount of debris that will be generated by high velocity hurricane winds and quantifies it into three broad categories to determine the material handling equipment needed:

- Reinforced Concrete and Steel Debris
- Brick and Wood and Other Building Debris
- Tree Debris

Different material handling equipment is required for each category of debris. The estimates of debris for this scenario are listed in Table 8. The amount of hurricane wind related tree debris that is estimated to require pick up at the public's expense is listed in the eligible tree debris column.

Table 8: Wind-Related Debris Weight (Tons)

Storm	Brick, Wood,	Reinforced		Other	
Classification	and Other	Concrete/Steel	Tree Debris	Tree Debris	Total
Category 1	577	-	6,684	92,619	99,880

Figure 6 shows the distribution of all wind related debris resulting from a Category 1 hurricane. Each dot represents 20 tons of debris within the census tract in which it is located. The dots are randomly distributed within each census tract and therefore do not represent the specific location of debris sites.

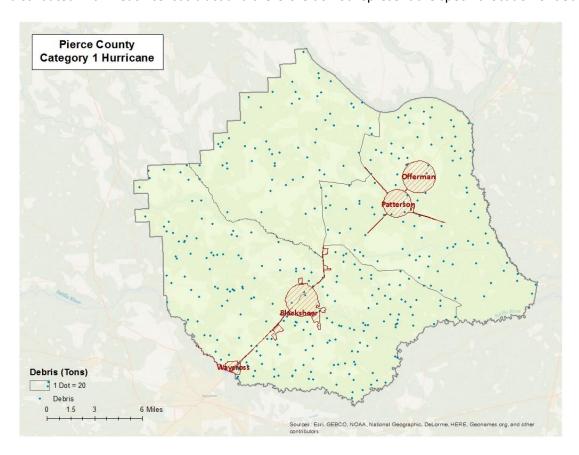


Figure 6: Wind-Related Debris Weight (Tons)

Flood Risk Assessment

Hazard Definition

Flooding is a significant natural hazard throughout the United States. The type, magnitude, and severity of flooding are functions of the amount and distribution of precipitation over a given area, the rate at which precipitation infiltrates the ground, the geometry and hydrology of the catchment, and flow dynamics and conditions in and along the river channel. Floods can be classified as one of three types: upstream floods, downstream floods, or coastal floods.

Upstream floods, also called flash floods, occur in the upper parts of drainage basins and are generally characterized by periods of intense rainfall over a short duration. These floods arise with very little warning and often result in locally intense damage, and sometimes loss of life, due to the high energy of the flowing water. Flood waters can snap trees, topple buildings, and easily move large boulders or other structures. Six inches of rushing water can upend a person; another 18 inches might carry off a car. Generally, upstream floods cause damage over relatively localized areas, but they can be quite severe in the local areas in which they occur. Urban flooding is a type of upstream flood. Urban flooding involves the overflow of storm drain systems and can be the result of inadequate drainage combined with heavy rainfall or rapid snowmelt. Upstream or flash floods can occur at any time of the year in Georgia, but they are most common in the spring and summer months.

Downstream floods, also called riverine floods, refer to floods on large rivers at locations with large upstream catchments. Downstream floods are typically associated with precipitation events that are of relatively long duration and occur over large areas. Flooding on small tributary streams may be limited, but the contribution of increased runoff may result in a large flood downstream. The lag time between precipitation and time of the flood peak is much longer for downstream floods than for upstream floods, generally providing ample warning for people to move to safe locations and, to some extent, secure some property against damage.

Coastal floods occurring on the Atlantic and Gulf coasts may be related to hurricanes or other combined offshore, nearshore, and shoreline these processes. The effects of complex interrelationships vary significantly across coastal settings, leading to challenges in the determination of the base (1-percent-annual-chance) flood for hazard mapping purposes. Land area covered by floodwaters of the base flood is identified as a Special Flood Hazard Area (SFHA). The Pierce County flood risk assessment analyzed at risk structures in the SFHA.

The SFHA is the area where the National Flood Insurance Program's (NFIP) floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance applies. The owner of a structure in a high-risk area must carry flood insurance, if the owner carries a mortgage from a federally regulated or insured lender or servicer.

The following probabilistic risk assessment involves an analysis of a 1% annual chance riverine flood event.

Riverine 1% Flood Scenario

Riverine losses were determined from the 1% flood boundaries downloaded from the FEMA Flood Map Service Center in October 2017. The flood boundaries were overlaid with the USGS 10 meter DEM using the Hazus-MH Enhanced Quick Look tool to generate riverine depth grids. The riverine flood depth grid was then imported into Hazus-MH to calculate the riverine flood loss estimates. Figure 7 illustrates the riverine inundation boundary associated with the 1% annual chance. Please note that the riverine flooding may not take into account elevated housing or raised Base Flood Elevation.

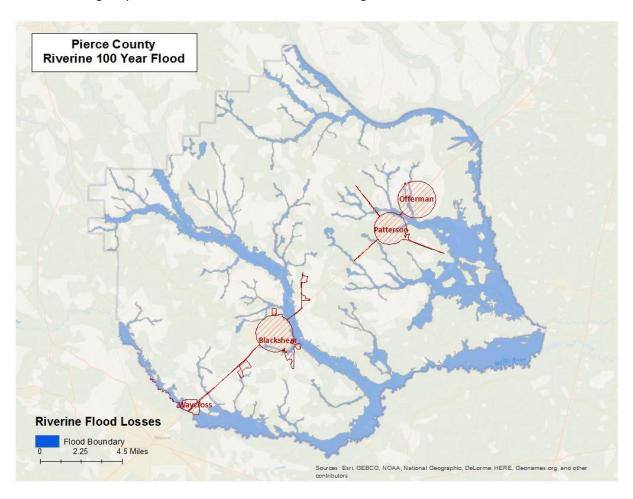


Figure 7: Riverine 1% Flood Inundation

Riverine 1% Flood Building Damages

Buildings in Pierce County are vulnerable to flooding from events equivalent to the 1% riverine flood. The economic and social impacts from a flood of this magnitude can be significant. Table 9 provides a summary of the potential flood-related building damage in Pierce County by jurisdiction that might be experienced from the 1% flood. Figure 8 maps the potential loss ratios of total building exposure to losses sustained to buildings from the 1% flood by 2010 census block and Figure 9 illustrates the relationship of building locations to the 1% flood inundation boundary.

Table 9: Pierce County Riverine 1% Building Losses

		Total					
Occupancy	Total	Buildings		Total	To	otal Losses to	Loss Ratio of
Classification	Buildings	Damaged	Bu	ilding Exposure		Buildings	Exposed to Damaged
Blackshear							
Residential	1,299	13	\$	229,202,978	\$	576,041	0.25%
Commercial	237	1	\$	148,664,062	\$	224,002	0.15%
				Offerman			
Residential	191	1	\$	20,593,267	\$	36,346	0.18%
				Patterson			
Residential	343	1	\$	47,290,618	\$	28,088	0.06%
				Unincorporated			
Residential	6,626	114	\$	712,874,710	\$	4,219,043	0.59%
Commercial	106	6	\$	63,274,348	\$	246,350	0.39%
				County Total			
Total	8,802	136	\$	1,221,899,983	\$	5,329,870	

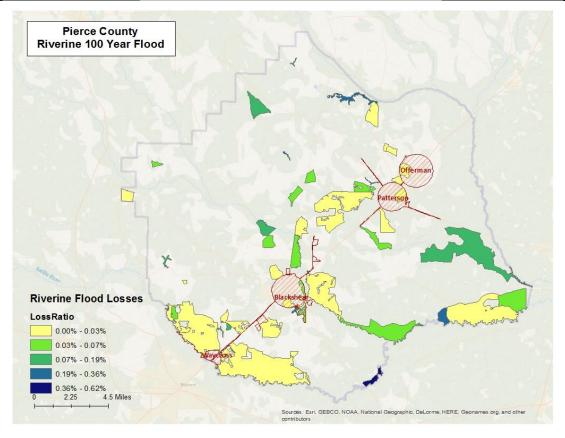


Figure 8: Potential UDF Loss Ratios from the 1% Riverine Flood

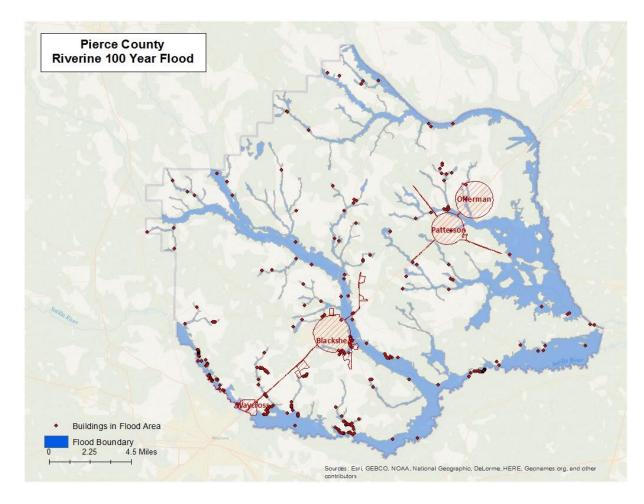


Figure 9: Damaged Buildings in 1% Riverine Flood

Riverine 1% Flood Essential Facility Losses

An essential facility may encounter many of the same impacts as other buildings within the flood boundary. These impacts can include structural failure, extensive water damage to the facility and loss of facility functionality (e.g. a damaged police station will no longer be able to serve the community). The analysis has identified that were 0 Essential Facilities subject to damage in the Pierce County riverine 1% probability floodplain.

Table 10: Expected Damage to Essential Facilities in 1% Riverine Flood

Classification	Total	Moderate	Substantial	Loss of Use
Fire Station	12	0	0	0
Hospitals	5	0	0	0
Police Stations	7	0	0	0
Schools	7	0	0	0
EOCs	0	0	0	0

Riverine 1% Flood Shelter Requirements

Hazus-MH estimates that the number of households that are expected to be displaced from their homes due to riverine flooding and the associated potential evacuation. The model estimates 531 households might be displaced due to the flood. Displacement includes households evacuated within or very near to the inundated area. Displaced households represent 1,592 individuals, of which 911 may require short term publicly provided shelter. The results are mapped in Figure 10. These numbers may be overestimated for two reasons: elevated housing not taken into account and parcel centroids (not aligned exactly with actual structures).

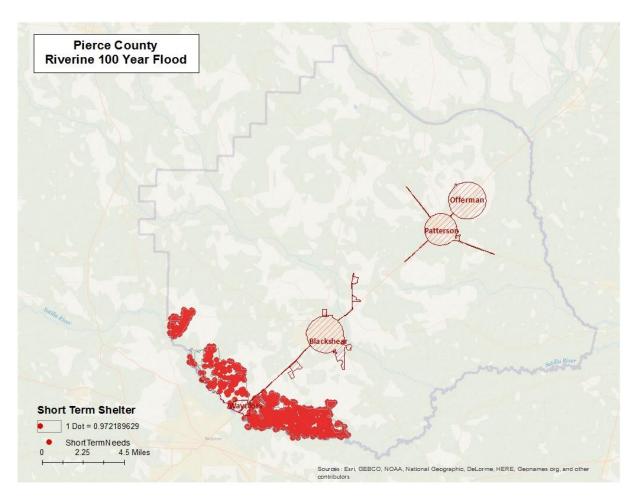


Figure 10: Estimated Flood Shelter Requirements in 1% Riverine Flood

Riverine 1% Flood Debris

Hazus-MH estimates the amount of debris that will be generated by the flood. The model breaks debris into three general categories:

- Finishes (dry wall, insulation, etc.)
- Structural (wood, brick, etc.)
- Foundations (concrete slab, concrete block, rebar, etc.)

Different types of material handling equipment will be required for each category. Debris definitions applied in Hazus-MH are unique to the Hazus-MH model and so do not necessarily conform to other definitions that may be employed in other models or guidelines.

The analysis estimates that an approximate total of 4,559 tons of debris might be generated: 1) Finishes -1,741 tons; 2) Structural -1,035 tons; and 3) Foundations- 1,783 tons. The results are mapped in Figure 11.

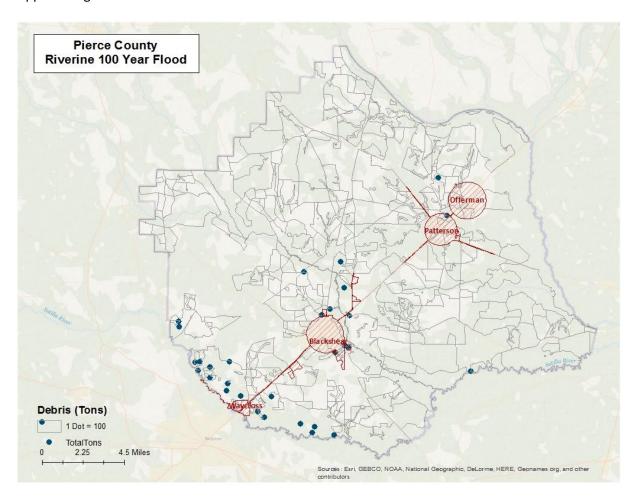


Figure 11: Flood Debris Weight (Tons) in 1% Riverine Flood

Tornado Risk Assessment

Hazard Definition

Tornadoes pose a great risk to the state of Georgia and its citizens. Tornadoes can occur at any time during the day or night. They can also happen during any month of the year. The unpredictability of tornadoes makes them one of Georgia's most dangerous hazards. Their extreme winds are violently destructive when they touch down in the region's developed and populated areas. Current estimates place the maximum velocity at about 300 miles per hour, but higher and lower values can occur. A wind velocity of 200 miles per hour will result in a wind pressure of 102.4 pounds per square foot of surface area—a load that exceeds the tolerance limits of most buildings. Considering these factors, it is easy to understand why tornadoes can be so devastating for the communities they hit.

Tornadoes are defined as violently-rotating columns of air extending from thunderstorms and cyclonic events. Funnel clouds are rotating columns of air not in contact with the ground; however, the violently-rotating column of air can reach the ground very quickly and become a tornado. If the funnel cloud picks up and blows debris, it has reached the ground and is a tornado.

Tornadoes are classified according to the Fujita tornado intensity scale. Originally introduced in 1971, the scale was modified in 2006 to better define the damage and estimated wind scale. The Enhanced Fujita Scale ranges from low intensity EFO with effective wind speeds of 65 to 85 miles per hour, to EF5 tornadoes with effective wind speeds of over 200 miles per hour. The Enhanced Fujita intensity scale is included in Table 11.

Table 11: Enhanced Fujita Tornado Rating

Fujita	Estimated	<u> </u>		
Number	Wind Speed	Path Width	Path Length	Description of Destruction
EF0 Gale	65-85 mph	6-17 yards	0.3-0.9 miles	Light damage, some damage to chimneys, branches broken, sign boards damaged, shallow-rooted trees blown over.
EF1 Moderate	86-110 mph	18-55 yards	1.0-3.1 miles	Moderate damage, roof surfaces peeled off, mobile homes pushed off foundations, attached garages damaged.
EF2 Significant	111-135 mph	56-175 yards	3.2-9.9 miles	Considerable damage, entire roofs torn from frame houses, mobile homes demolished, boxcars pushed over, large trees snapped or uprooted.
EF3 Severe	136-165 mph	176-566 yards	10-31 miles	Severe damage, walls torn from well- constructed houses, trains overturned, most trees in forests uprooted, heavy cars thrown about.
EF4 Devastating	166-200 mph	0.3-0.9 miles	32-99 miles	Complete damage, well-constructed houses leveled, structures with weak foundations blown off for some distance, large missiles generated.
EF5 ncredible	Over 200 mph	1.0-3.1 miles	100-315 miles	Foundations swept clean, automobiles become missiles and thrown for 100 yards or more, steel-reinforced concrete structures badly damaged.

Source: http://www.srh.noaa.gov

Hypothetical Tornado Scenario

For this report, an EF3 tornado was modeled to illustrate the potential impacts of tornadoes of this magnitude in the county. The analysis used a hypothetical path based upon an EF3 tornado event running along the predominant direction of historical tornados (southeast to northwest). The tornado path was placed to travel through Blackshear. The selected widths were modeled after a re-creation of the Fujita-Scale guidelines based on conceptual wind speeds, path widths, and path lengths. There is no guarantee that every tornado will fit exactly into one of these categories. Table 12 depicts tornado path widths and expected damage.

Enhanced Fujita		Maximum Expected
Scale	Path Width (feet)	Damage
EF5	2,400	100%
EF4	1,800	100%
EF3	1,200	80%
EF2	600	50%
EF1	300	10%

Within any given tornado path there are degrees of damage. The most intense damage occurs within the center of the damage path, with decreasing amounts of damage away from the center. After the hypothetical path is digitized on a map, the process is modeled in GIS by adding buffers (damage zones) around the tornado path. Figure 12 describes the zone analysis.

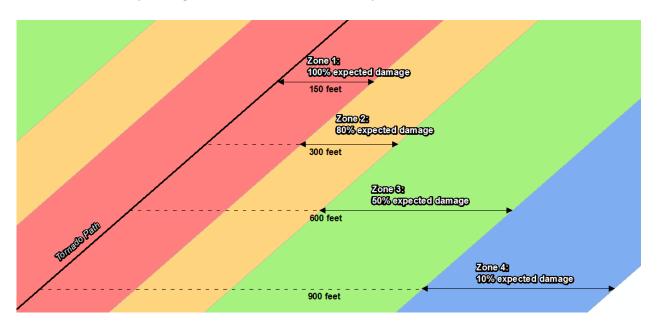


Figure 12: EF Scale Tornado Zones

An EF3 tornado has four damage zones, depicted in Table 13. Major damage is estimated within 150 feet of the tornado path. The outer buffer is 900 feet from the tornado path, within which buildings will not experience any damage. The selected hypothetical tornado path is depicted in Figure 13 and the damage curve buffer zones are shown in Figure 14.

Table 13: EF3 Tornado Zones and Damage Curves

	<u> </u>	
Zone	Buffer (feet)	Damage Curve
1	0-150	80%
2	150-300	50%
3	300-600	10%
4	600-900	0%

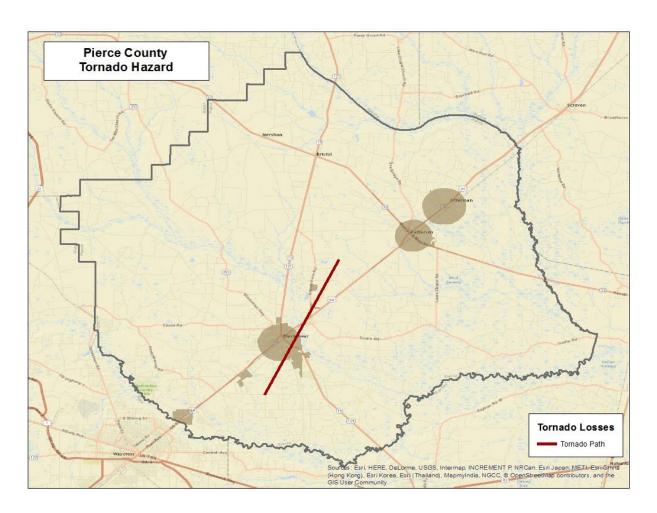


Figure 13: Hypothetical EF3 Tornado Path

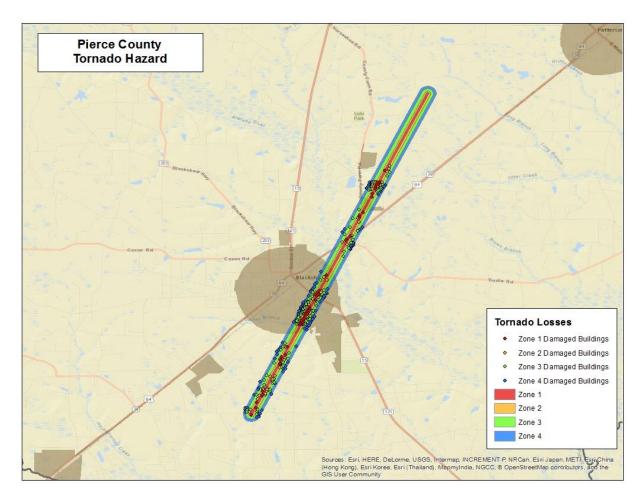


Figure 14: Modeled EF3 Tornado Damage Buffers

EF3 Tornado Building Damages

The analysis estimated that approximately 387 buildings could be damaged, with estimated building losses of approximately \$18 million. The building losses are an estimate of building replacement costs multiplied by the percentages of damage. The overlay was performed against parcels provided by Pierce County that were joined with Assessor records showing estimated property replacement costs. The Assessor records often do not distinguish parcels by occupancy class if the parcels are not taxable and thus the number of buildings and replacement costs may be underestimated. The results of the analysis are depicted in Table 14.

Table 14: Estimated Building Losses by Occupancy Type

Occupancy	Buildings	Building	
Classification	Damaged		Losses
Commerical	12	\$	749,382
Religious	3	\$	430,863
Governmental	3	\$	-
Industrial	16	\$	5,076,089
Residential	353	\$	11,766,680
Total	387	\$	18,023,014

EF3 Tornado Essential Facility Damage

There were 4 essential facilities located in the tornado path according to the modeling, these 4 facilities would suffer moderate to major damage should such a tornado strike occur.

The location of the damaged Essential Facilities is mapped in Figure 15.

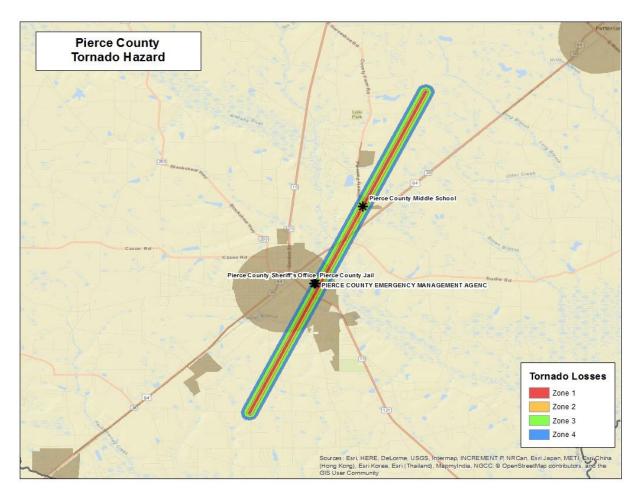


Figure 15: Modeled Essential Facility Damage in Pierce County

Exceptions Report

Hazus Version 2.2 SP1 was used to perform the loss estimates for Pierce County, Georgia. Changes made to the default Hazus-MH inventory and the modeling parameters used to setup the hazard scenarios are described within this document.

Reported losses reflect the updated data sets. Steps, algorithms and assumptions used during the data update process are documented in the project workflow developed by the Polis Center.

Statewide Inventory Changes

The default Hazus-MH Essential Facility inventory was updated for the entire state prior to running the hazard scenarios for Pierce County.

Statewide facility data were supplied by GEMA through the GMIS in June 2015. The Regional Commission updated the essential facilities in 2017. The updated data was used for this analysis. Table 15 summarizes the difference between the original Hazus-MH default data and the updated data for Pierce County.

Table 15: Essential Facility Updates

Occupancy	Occupancy Default			Updated			
Classification		Replacement Cost	Default Count		Replacement Cost	Updated Count	
Care	\$	17,602,000	8	\$	15,911,000	5	
EOC	\$	880,000	1	\$	880,000	1	
Fire	\$	19,179,000	14	\$	10,010,000	12	
Police	\$	28,588,000	7	\$	28,588,000	7	
School	\$	27,245,000	4	\$	25,445,000	7	

County Inventory Changes

The GBS records for Pierce County were replaced with data derived from parcel and property assessment data obtained from Pierce County. The county provided property assessment data was current as of December 2016 and the parcel data current as of January 2017.

General Building Stock Updates

The parcel boundaries and assessor records were obtained from Pierce County. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary unless there were building footprints. Each parcel point was linked to an assessor record based upon matching parcel numbers. The generated Building Inventory represents the approximate locations (within a parcel) of building exposure. The Building Inventory was aggregated by Census Block and imported into Hazus-MH using the Hazus-MH Comprehensive Data Management System (CDMS). Both the 2010 Census Tract and Census Block tables were updated.

The match between parcel records and assessor records was based upon a common Parcel ID. For this type of project, unless the hit rate is better than 85%, the records are not used to update the default aggregate inventory in Hazus-MH. The Parcel-Assessor hit rate for Pierce County was 99.7%.

Adjustments were made to records when primary fields did not have a value. In these cases, default values were applied to the fields. Table 16 outlines the adjustments made to Pierce County records.

Table 16: Building Inventory Default Adjustment Rates

Type of Adjustment	Building Count	Percentage
Area Unknown	442	5%
Construction Unknown	385	4%
Condition Unknown	342	4%
Foundation Unknown	254	3%
Year Built Unknown	1840	20%

Portions of the CAMA values were either missing (<Null> or '0'), did not match CAMA domains or were unusable ('Unknown', 'Other', 'Pending'). These were replaced with 'best available' values. Missing YearBuilt values were populated from average values per Census Block. Missing Condition, Construction and Foundation values were populated with the highest-frequency CAMA values per Occupancy Class. Missing Area values were populated with the average CAMA values per Occupancy Class.

The resulting Building Inventory was used to populate the Hazus-MH General Building Stock and User Defined Facility tables. The updated General Building Stock was used to calculate flood and tornado losses. Changes to the building counts and exposure that were modeled in Pierce County are sorted by General Occupancy in Table 1 at the beginning of this report. If replacements cost or building value were not present for a given record in the Assessor data, replacement costs were calculated from the Building Area (sqft) multiplied by the Hazus-MH RS Means (\$/sqft) values for each Occupancy Class.

Differences between the default and updated data are due to various factors. The Assessor records often do not distinguish parcels by occupancy class when the parcels are not taxable; therefore, the total number of buildings and the building replacement costs for government, religious/non-profit, and education may be underestimated.

User Defined Facilities

Local parcel and CAMA data were used to develop points representing the locations of buildings in the county, referred to as User Defined Facilities (UDF) in the Hazus model. For the flood model, this includes only buildings located in the 1% Annual Chance Riverine Flood Area. Table 17 identifies the total building count & exposure for buildings located in the 1% Annual Chance Riverine Flood Area.

Table 17: Building Count and Exposure for County and Riverine Flood Area

Feature	Counts	Exposure
Total buildings in the County	3,734	\$741,959,009
Total buildings inside the 1% Annual Chance		
Riverine Flood Area	340	\$45,112,930

It should be noted that UDFs are only used in the flood modeling process, due to the fact that it is important to identify if individual buildings are located within the flood area to obtain the depth of flood.

Assumptions

- Flood analysis was performed on UDF. The point locations are parcel centroid accuracy.
- The analysis is restricted to the county boundary within the flood area. Events that occur near the county boundary do not contain loss estimates from adjacent counties.
- The following attributes were defaulted or calculated:
 - First Floor Height was set from Foundation Type Content Cost was calculated from Building Cost