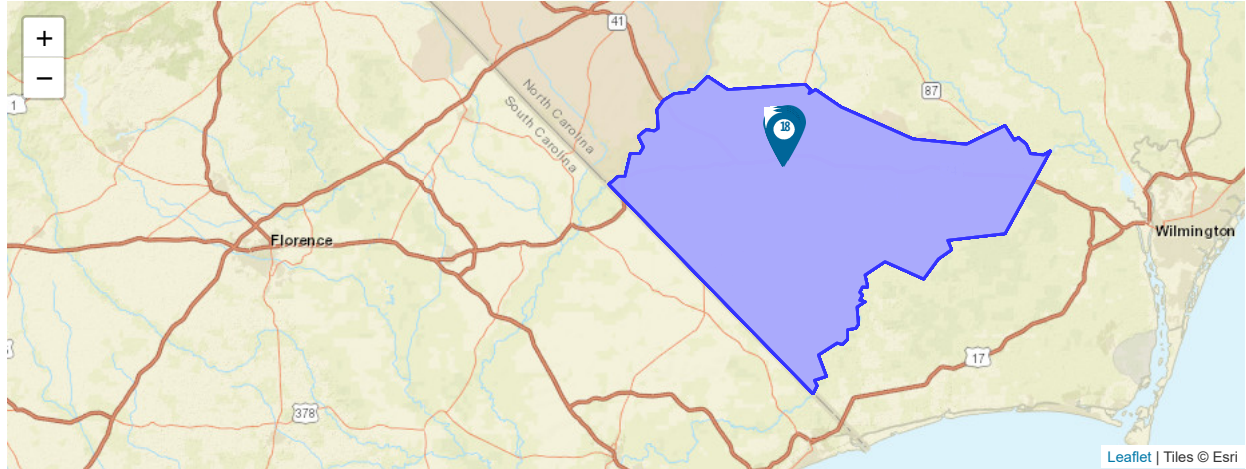




Benefit-Cost Analysis

Project Name: Mollies Branch Stream Restoration



Map Marker ▲	Mitigation Title	Property Type	Hazard	Using 7% Discount Rate			Using 3% Discount Rate (For FY22 BRIC and FMA only)		
				Benefits (B)	Costs (C)	BCR (B/C)	Benefits (B)	Costs (C)	BCR (B/C)
1	Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,601	\$ 0	0.00	\$ 2,693	\$ 0	0.00
2	Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 6,914	\$ 0	0.00	\$ 9,506	\$ 0	0.00
3	Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,423	\$ 0	0.00	\$ 2,411	\$ 0	0.00
4	Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -11	\$ 0	0.00	\$ -17	\$ 0	0.00
5	Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,674	\$ 0	0.00	\$ 2,808	\$ 0	0.00
6	Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,569	\$ 0	0.00	\$ 2,643	\$ 0	0.00
7	Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -31	\$ 0	0.00	\$ -49	\$ 0	0.00
8	Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -7	\$ 0	0.00	\$ -11	\$ 0	0.00
9	Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -11	\$ 0	0.00	\$ -18	\$ 0	0.00
10	Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -11	\$ 0	0.00	\$ -17	\$ 0	0.00
11	Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -12	\$ 0	0.00	\$ -19	\$ 0	0.00
12	Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,627	\$ 0	0.00	\$ 2,733	\$ 0	0.00
13	Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,438	\$ 0	0.00	\$ 2,436	\$ 0	0.00
14	Floodplain and Stream Restoration @ 116 Maultsby Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -4	\$ 0	0.00	\$ -7	\$ 0	0.00
15	Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ -3	\$ 0	0.00	\$ -4	\$ 0	0.00
16	Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 2,480	\$ 0	0.00	\$ 2,501	\$ 0	0.00
17	Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 5,675	\$ 0	0.00	\$ 7,549	\$ 0	0.00
18	Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 0	\$ 0	0.00	\$ -1	\$ 0	0.00
19	Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 18,040	\$ 0	0.00	\$ 28,495	\$ 0	0.00
20	Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 19,441	\$ 0	0.00	\$ 30,707	\$ 0	0.00
21	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 19,259	\$ 0	0.00	\$ 30,420	\$ 0	0.00
22	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 60,158	\$ 0	0.00	\$ 95,021	\$ 0	0.00
23	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 18,045	\$ 0	0.00	\$ 28,504	\$ 0	0.00
24	Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 7,047	\$ 0	0.00	\$ 11,131	\$ 0	0.00
25	Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472	🏠	Riverine Flood	\$ 5,474	\$ 0	0.00	\$ 8,646	\$ 0	0.00
26	Floodplain and Stream Restoration @ Whiteville, North Carolina	📍	DFA - Riverine Flood	\$ 4,894,925	\$ 5,233,267	0.94	\$ 7,731,677	\$ 5,410,449	1.43
TOTAL (SELECTED)				\$ 5,072,700	\$ 5,233,267	0.97	\$ 7,999,738	\$ 5,410,449	1.48
TOTAL				\$ 5,072,700	\$ 5,233,267	0.97	\$ 7,999,738	\$ 5,410,449	1.48

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33724801258056, -78.71566700689293
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67.23
Streambed Elevation at the Property Location (ft):	58.49
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.47	307
25	64.82	400
50	65.02	477
100	65.26	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.91	307
25	63.45	400
50	63.83	477
100	64.16	558

Building Information

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	684
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$8
Expected Annual Losses due to Building Damages after Mitigation:	\$1
Expected Annual Benefits - Building:	\$7

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	1,710	0	0	2.5	1,710	0	0
0	13.4	9,165.6	0	0	13.4	9,165.6	0	0
1	23.3	15,937.2	0	0	23.3	15,937.2	0	0
2	32.1	21,956.4	0	0	32.1	21,956.4	0	0
3	40.1	27,428.4	0	0	40.1	27,428.4	0	0
4	47.1	32,216.4	0	0	47.1	32,216.4	0	0
5	53.2	68,400	0	0	53.2	68,400	0	0
6	58.6	68,400	0	0	58.6	68,400	0	0
7	63.2	68,400	0	0	63.2	68,400	0	0
8	67.2	68,400	0	0	67.2	68,400	0	0
9	70.5	68,400	0	0	70.5	68,400	0	0
10	73.2	68,400	0	0	73.2	68,400	0	0
11	75.4	68,400	0	0	75.4	68,400	0	0
12	77.2	68,400	0	0	77.2	68,400	0	0
13	78.5	68,400	0	0	78.5	68,400	0	0
14	79.5	68,400	0	0	79.5	68,400	0	0
15	80.2	68,400	0	0	80.2	68,400	0	0
16	80.7	68,400	0	0	80.7	68,400	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$7
Expected Annual Losses due to Content Damages after Mitigation:	\$1
Expected Annual Benefits - Content:	\$6

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	1,641.6	2.4	1,641.6
0	8.1	5,540.4	8.1	5,540.4
1	13.3	9,097.2	13.3	9,097.2
2	17.9	12,243.6	17.9	12,243.6
3	22	15,048	22	15,048
4	25.7	17,578.8	25.7	17,578.8
5	28.8	19,699.2	28.8	19,699.2
6	31.5	21,546	31.5	21,546
7	33.8	23,119.2	33.8	23,119.2
8	35.7	24,418.8	35.7	24,418.8
9	37.2	25,444.8	37.2	25,444.8
10	38.4	26,265.6	38.4	26,265.6
11	39.2	26,812.8	39.2	26,812.8
12	39.7	27,154.8	39.7	27,154.8
13	40	27,360	40	27,360
14	40	27,360	40	27,360
15	40	27,360	40	27,360
16	40	27,360	40	27,360

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$98	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$150	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,750	45	6,750
2	90	13,500	90	13,500
3	135	20,250	135	20,250
4	180	27,000	180	27,000
5	225	33,750	225	33,750
6	270	40,500	270	40,500
7	315	47,250	315	47,250
8	360	54,000	360	54,000
9	405	60,750	405	60,750
10	450	67,500	450	67,500
11	495	74,250	495	74,250
12	540	81,000	540	81,000
13	585	87,750	585	87,750
14	630	94,500	630	94,500
15	675	101,250	675	101,250
16	720	108,000	720	108,000

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Number of Workers:	0
Expected Annual Social Benefits:	\$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 703 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$158
Total Social Benefits:	\$2,443
Total Mitigation Project Benefits:	\$2,601
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33762498867587, -78.71407201453768
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	66.38
Streambed Elevation at the Property Location (ft):	58.49
Use Default Recurrence Intervals:	Use Defau No

Discharge

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.47	307
25	64.79	400
50	65.04	477
100	65.28	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.88	307
25	63.42	400
50	63.79	477
100	64.12	558

Building Information

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,597
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$222
Expected Annual Losses due to Building Damages after Mitigation:	\$32
Expected Annual Benefits - Building:	\$190

Depth Damage Curve - Building
Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	3,992.5	0	0	2.5	3,992.5	0	0
0	13.4	21,399.8	0	0	13.4	21,399.8	0	0
1	23.3	37,210.1	0	0	23.3	37,210.1	0	0
2	32.1	51,263.70	0	0	32.1	51,263.70	0	0
3	40.1	64,039.70	0	0	40.1	64,039.70	0	0
4	47.1	75,218.7	0	0	47.1	75,218.7	0	0
5	53.2	159,700	0	0	53.2	159,700	0	0
6	58.6	159,700	0	0	58.6	159,700	0	0
7	63.2	159,700	0	0	63.2	159,700	0	0
8	67.2	159,700	0	0	67.2	159,700	0	0
9	70.5	159,700	0	0	70.5	159,700	0	0
10	73.2	159,700	0	0	73.2	159,700	0	0
11	75.4	159,700	0	0	75.4	159,700	0	0
12	77.2	159,700	0	0	77.2	159,700	0	0
13	78.5	159,700	0	0	78.5	159,700	0	0
14	79.5	159,700	0	0	79.5	159,700	0	0
15	80.2	159,700	0	0	80.2	159,700	0	0
16	80.7	159,700	0	0	80.7	159,700	0	0

Standard Benefits - Contents
Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$199
Expected Annual Losses due to Content Damages after Mitigation:	\$29
Expected Annual Benefits - Content:	\$171

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	3,832.8	2.4	3,832.8
0	8.1	12,935.7	8.1	12,935.7
1	13.3	21,240.1	13.3	21,240.1
2	17.9	28,586.3	17.9	28,586.3
3	22	35,134	22	35,134
4	25.7	41,042.9	25.7	41,042.9
5	28.8	45,993.6	28.8	45,993.6
6	31.5	50,305.5	31.5	50,305.5
7	33.8	53,978.6	33.8	53,978.6
8	35.7	57,012.9	35.7	57,012.9
9	37.2	59,408.4	37.2	59,408.4
10	38.4	61,324.8	38.4	61,324.8
11	39.2	62,602.4	39.2	62,602.4
12	39.7	63,400.9	39.7	63,400.9
13	40	63,880	40	63,880
14	40	63,880	40	63,880
15	40	63,880	40	63,880
16	40	63,880	40	63,880

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Number of Workers: 0

Expected Annual Social Benefits: \$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 711 Bryce St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$4,471

Total Social Benefits: \$2,443

Total Mitigation Project Benefits: \$6,914

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33735898897861, -78.71400697096904
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	68.06
Streambed Elevation at the Property Location (ft):	58.49
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.47	307
25	64.78	400
50	65	477
100	65.22	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.83	307
25	63.42	400
50	63.79	477
100	64.11	558

Building Information

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,940
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0
Expected Annual Losses due to Building Damages after Mitigation:	\$1
Expected Annual Benefits - Building:	\$-1

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	4,850	0	0	2.5	4,850	0	0
0	13.4	25,996	0	0	13.4	25,996	0	0
1	23.3	45,202	0	0	23.3	45,202	0	0
2	32.1	62,274	0	0	32.1	62,274	0	0
3	40.1	77,794	0	0	40.1	77,794	0	0
4	47.1	91,374	0	0	47.1	91,374	0	0
5	53.2	194,000	0	0	53.2	194,000	0	0
6	58.6	194,000	0	0	58.6	194,000	0	0
7	63.2	194,000	0	0	63.2	194,000	0	0
8	67.2	194,000	0	0	67.2	194,000	0	0
9	70.5	194,000	0	0	70.5	194,000	0	0
10	73.2	194,000	0	0	73.2	194,000	0	0
11	75.4	194,000	0	0	75.4	194,000	0	0
12	77.2	194,000	0	0	77.2	194,000	0	0
13	78.5	194,000	0	0	78.5	194,000	0	0
14	79.5	194,000	0	0	79.5	194,000	0	0
15	80.2	194,000	0	0	80.2	194,000	0	0
16	80.7	194,000	0	0	80.7	194,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$0
Expected Annual Losses due to Content Damages after Mitigation:	\$1
Expected Annual Benefits - Content:	\$-1

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	4,656	2.4	4,656
0	8.1	15,714	8.1	15,714
1	13.3	25,802	13.3	25,802
2	17.9	34,725.99	17.9	34,725.99
3	22	42,680	22	42,680
4	25.7	49,858	25.7	49,858
5	28.8	55,872	28.8	55,872
6	31.5	61,110	31.5	61,110
7	33.8	65,571.99	33.8	65,571.99
8	35.7	69,258.00	35.7	69,258.00
9	37.2	72,168.00	37.2	72,168.00
10	38.4	74,496	38.4	74,496
11	39.2	76,048.00	39.2	76,048.00
12	39.7	77,018.00	39.7	77,018.00
13	40	77,600	40	77,600
14	40	77,600	40	77,600
15	40	77,600	40	77,600
16	40	77,600	40	77,600

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Number of Workers:	0
Expected Annual Social Benefits:	\$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 705 Bryce St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$-20
Total Social Benefits:	\$2,443
Total Mitigation Project Benefits:	\$2,423
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.336566019028695, -78.71378401234456
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67.89
Streambed Elevation at the Property Location (ft):	57.06
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.39	307
25	64.69	400
50	64.89	490
100	65.1	570

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.4	307
25	63.03	400
50	63.38	490
100	63.75	570

Building Information

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,778
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$0

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	4,445	0	0	2.5	4,445	0	0
0	13.4	23,825.2	0	0	13.4	23,825.2	0	0
1	23.3	41,427.4	0	0	23.3	41,427.4	0	0
2	32.1	57,073.8	0	0	32.1	57,073.8	0	0
3	40.1	71,297.8	0	0	40.1	71,297.8	0	0
4	47.1	83,743.8	0	0	47.1	83,743.8	0	0
5	53.2	177,800	0	0	53.2	177,800	0	0
6	58.6	177,800	0	0	58.6	177,800	0	0
7	63.2	177,800	0	0	63.2	177,800	0	0
8	67.2	177,800	0	0	67.2	177,800	0	0
9	70.5	177,800	0	0	70.5	177,800	0	0
10	73.2	177,800	0	0	73.2	177,800	0	0
11	75.4	177,800	0	0	75.4	177,800	0	0
12	77.2	177,800	0	0	77.2	177,800	0	0
13	78.5	177,800	0	0	78.5	177,800	0	0
14	79.5	177,800	0	0	79.5	177,800	0	0
15	80.2	177,800	0	0	80.2	177,800	0	0
16	80.7	177,800	0	0	80.7	177,800	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$0
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$0

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	4,267.2	2.4	4,267.2
0	8.1	14,401.8	8.1	14,401.8
1	13.3	23,647.4	13.3	23,647.4
2	17.9	31,826.19	17.9	31,826.19
3	22	39,116	22	39,116
4	25.7	45,694.6	25.7	45,694.6
5	28.8	51,206.4	28.8	51,206.4
6	31.5	56,007	31.5	56,007
7	33.8	60,096.39	33.8	60,096.39
8	35.7	63,474.60	35.7	63,474.60
9	37.2	66,141.6	37.2	66,141.6
10	38.4	68,275.2	38.4	68,275.2
11	39.2	69,697.6	39.2	69,697.6
12	39.7	70,586.6	39.7	70,586.6
13	40	71,120	40	71,120
14	40	71,120	40	71,120
15	40	71,120	40	71,120
16	40	71,120	40	71,120

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 701 Bob White Ln, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$-11

Total Social Benefits: \$0

Total Mitigation Project Benefits: \$-11

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33300199188898, -78.71338302209665
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	66.42
Streambed Elevation at the Property Location (ft):	56.81
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.05	371
25	64.24	484
50	64.36	580
100	64.48	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.96	371
25	60.7	484
50	61.05	580
100	61.47	677

Building Information

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,140
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$12
Expected Annual Losses due to Building Damages after Mitigation:	\$1
Expected Annual Benefits - Building:	\$10

Depth Damage Curve - Building
Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,850	0	0	2.5	2,850	0	0
0	13.4	15,276	0	0	13.4	15,276	0	0
1	23.3	26,562	0	0	23.3	26,562	0	0
2	32.1	36,594	0	0	32.1	36,594	0	0
3	40.1	45,714	0	0	40.1	45,714	0	0
4	47.1	53,694	0	0	47.1	53,694	0	0
5	53.2	114,000	0	0	53.2	114,000	0	0
6	58.6	114,000	0	0	58.6	114,000	0	0
7	63.2	114,000	0	0	63.2	114,000	0	0
8	67.2	114,000	0	0	67.2	114,000	0	0
9	70.5	114,000	0	0	70.5	114,000	0	0
10	73.2	114,000	0	0	73.2	114,000	0	0
11	75.4	114,000	0	0	75.4	114,000	0	0
12	77.2	114,000	0	0	77.2	114,000	0	0
13	78.5	114,000	0	0	78.5	114,000	0	0
14	79.5	114,000	0	0	79.5	114,000	0	0
15	80.2	114,000	0	0	80.2	114,000	0	0
16	80.7	114,000	0	0	80.7	114,000	0	0

Standard Benefits - Contents
Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$9
Expected Annual Losses due to Content Damages after Mitigation:	\$1
Expected Annual Benefits - Content:	\$8

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,736	2.4	2,736
0	8.1	9,234	8.1	9,234
1	13.3	15,162	13.3	15,162
2	17.9	20,405.99	17.9	20,405.99
3	22	25,080	22	25,080
4	25.7	29,298	25.7	29,298
5	28.8	32,832	28.8	32,832
6	31.5	35,910	31.5	35,910
7	33.8	38,531.99	33.8	38,531.99
8	35.7	40,698.00	35.7	40,698.00
9	37.2	42,408	37.2	42,408
10	38.4	43,776	38.4	43,776
11	39.2	44,688	39.2	44,688
12	39.7	45,258	39.7	45,258
13	40	45,600	40	45,600
14	40	45,600	40	45,600
15	40	45,600	40	45,600
16	40	45,600	40	45,600

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Number of Workers: 0

Expected Annual Social Benefits: \$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 305 Stanley St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$231

Total Social Benefits: \$2,443

Total Mitigation Project Benefits: \$2,674

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33275900051592, -78.71338000461151
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67.03
Streambed Elevation at the Property Location (ft):	56.19
Use Default Recurrence Intervals:	Use Defau No

Discharge

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.05	371
25	64.23	484
50	65.35	580
100	64.46	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.83	371
25	60.61	484
50	60.93	580
100	61.36	677

Building Information

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	832
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$6
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$6

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,080	0	0	2.5	2,080	0	0
0	13.4	11,148.80	0	0	13.4	11,148.80	0	0
1	23.3	19,385.60	0	0	23.3	19,385.60	0	0
2	32.1	26,707.2	0	0	32.1	26,707.2	0	0
3	40.1	33,363.20	0	0	40.1	33,363.20	0	0
4	47.1	39,187.20	0	0	47.1	39,187.20	0	0
5	53.2	83,200	0	0	53.2	83,200	0	0
6	58.6	83,200	0	0	58.6	83,200	0	0
7	63.2	83,200	0	0	63.2	83,200	0	0
8	67.2	83,200	0	0	67.2	83,200	0	0
9	70.5	83,200	0	0	70.5	83,200	0	0
10	73.2	83,200	0	0	73.2	83,200	0	0
11	75.4	83,200	0	0	75.4	83,200	0	0
12	77.2	83,200	0	0	77.2	83,200	0	0
13	78.5	83,200	0	0	78.5	83,200	0	0
14	79.5	83,200	0	0	79.5	83,200	0	0
15	80.2	83,200	0	0	80.2	83,200	0	0
16	80.7	83,200	0	0	80.7	83,200	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$5
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$4

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	1,996.8	2.4	1,996.8
0	8.1	6,739.2	8.1	6,739.2
1	13.3	11,065.6	13.3	11,065.6
2	17.9	14,892.79	17.9	14,892.79
3	22	18,304	22	18,304
4	25.7	21,382.4	25.7	21,382.4
5	28.8	23,961.6	28.8	23,961.6
6	31.5	26,208	31.5	26,208
7	33.8	28,121.59	33.8	28,121.59
8	35.7	29,702.40	35.7	29,702.40
9	37.2	30,950.40	37.2	30,950.40
10	38.4	31,948.8	38.4	31,948.8
11	39.2	32,614.40	39.2	32,614.40
12	39.7	33,030.4	39.7	33,030.4
13	40	33,280	40	33,280
14	40	33,280	40	33,280
15	40	33,280	40	33,280
16	40	33,280	40	33,280

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Number of Workers:	0
Expected Annual Social Benefits:	\$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 301 Stanley St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$126
Total Social Benefits:	\$2,443
Total Mitigation Project Benefits:	\$2,569
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title: Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Property Location: 28472, Columbus, North Carolina

Property Coordinates: 34.332367984732784, -78.71431299425397

Hazard Type: Riverine Flood

Mitigation Action Type: Floodplain and Stream Restoration

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Project Useful Life (years): 30

Project Cost: \$0

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft): 65.34

Streambed Elevation at the Property Location (ft): 55.99

Use Default Recurrence Intervals: Use Default No

Discharge

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.29	371
25	62.55	484
50	62.71	580
100	62.88	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.62	371
25	60.32	484
50	60.64	580
100	61.08	677

Building Information

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,070	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$1	
Expected Annual Benefits - Building:	\$-1	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,675	0	0	2.5	2,675	0	0
0	13.4	14,338	0	0	13.4	14,338	0	0
1	23.3	24,931	0	0	23.3	24,931	0	0
2	32.1	34,347	0	0	32.1	34,347	0	0
3	40.1	42,907	0	0	40.1	42,907	0	0
4	47.1	50,397	0	0	47.1	50,397	0	0
5	53.2	107,000	0	0	53.2	107,000	0	0
6	58.6	107,000	0	0	58.6	107,000	0	0
7	63.2	107,000	0	0	63.2	107,000	0	0
8	67.2	107,000	0	0	67.2	107,000	0	0
9	70.5	107,000	0	0	70.5	107,000	0	0
10	73.2	107,000	0	0	73.2	107,000	0	0
11	75.4	107,000	0	0	75.4	107,000	0	0
12	77.2	107,000	0	0	77.2	107,000	0	0
13	78.5	107,000	0	0	78.5	107,000	0	0
14	79.5	107,000	0	0	79.5	107,000	0	0
15	80.2	107,000	0	0	80.2	107,000	0	0
16	80.7	107,000	0	0	80.7	107,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$1	
Expected Annual Benefits - Content:	\$-1	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,568	2.4	2,568
0	8.1	8,667	8.1	8,667
1	13.3	14,231	13.3	14,231
2	17.9	19,152.99	17.9	19,152.99
3	22	23,540	22	23,540
4	25.7	27,499	25.7	27,499
5	28.8	30,816	28.8	30,816
6	31.5	33,705	31.5	33,705
7	33.8	36,165.99	33.8	36,165.99
8	35.7	38,199.00	35.7	38,199.00
9	37.2	39,804.00	37.2	39,804.00
10	38.4	41,088	38.4	41,088
11	39.2	41,944	39.2	41,944
12	39.7	42,479	39.7	42,479
13	40	42,800	40	42,800
14	40	42,800	40	42,800
15	40	42,800	40	42,800
16	40	42,800	40	42,800

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 613 Pinewood Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$-31
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$-31
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33215801805824, -78.71446202449242
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	65.96
Streambed Elevation at the Property Location (ft):	55.05
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.24	371
25	62.51	484
50	62.68	580
100	62.87	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.48	371
25	60.22	484
50	60.47	580
100	61	677

Building Information

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,160	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$0	
Expected Annual Benefits - Building:	\$0	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,900	0	0	2.5	2,900	0	0
0	13.4	15,544	0	0	13.4	15,544	0	0
1	23.3	27,028	0	0	23.3	27,028	0	0
2	32.1	37,236	0	0	32.1	37,236	0	0
3	40.1	46,516	0	0	40.1	46,516	0	0
4	47.1	54,636	0	0	47.1	54,636	0	0
5	53.2	116,000	0	0	53.2	116,000	0	0
6	58.6	116,000	0	0	58.6	116,000	0	0
7	63.2	116,000	0	0	63.2	116,000	0	0
8	67.2	116,000	0	0	67.2	116,000	0	0
9	70.5	116,000	0	0	70.5	116,000	0	0
10	73.2	116,000	0	0	73.2	116,000	0	0
11	75.4	116,000	0	0	75.4	116,000	0	0
12	77.2	116,000	0	0	77.2	116,000	0	0
13	78.5	116,000	0	0	78.5	116,000	0	0
14	79.5	116,000	0	0	79.5	116,000	0	0
15	80.2	116,000	0	0	80.2	116,000	0	0
16	80.7	116,000	0	0	80.7	116,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$0	
Expected Annual Benefits - Content:	\$0	

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,784	2.4	2,784
0	8.1	9,396	8.1	9,396
1	13.3	15,428	13.3	15,428
2	17.9	20,763.99	17.9	20,763.99
3	22	25,520	22	25,520
4	25.7	29,812	25.7	29,812
5	28.8	33,408	28.8	33,408
6	31.5	36,540	31.5	36,540
7	33.8	39,207.99	33.8	39,207.99
8	35.7	41,412.00	35.7	41,412.00
9	37.2	43,152	37.2	43,152
10	38.4	44,544	38.4	44,544
11	39.2	45,472	39.2	45,472
12	39.7	46,052	39.7	46,052
13	40	46,400	40	46,400
14	40	46,400	40	46,400
15	40	46,400	40	46,400
16	40	46,400	40	46,400

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 615 Pinewood Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$-7

Total Social Benefits: \$0

Total Mitigation Project Benefits: \$-7

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33195199087818, -78.71451399229211
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	65.98
Streambed Elevation at the Property Location (ft):	55.55
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.19	388
25	62.44	505
50	62.59	580
100	62.76	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.37	388
25	60.15	505
50	60.41	580
100	60.87	677

Building Information

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,125
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$0

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,812.5	0	0	2.5	2,812.5	0	0
0	13.4	15,075	0	0	13.4	15,075	0	0
1	23.3	26,212.5	0	0	23.3	26,212.5	0	0
2	32.1	36,112.5	0	0	32.1	36,112.5	0	0
3	40.1	45,112.5	0	0	40.1	45,112.5	0	0
4	47.1	52,987.5	0	0	47.1	52,987.5	0	0
5	53.2	112,500	0	0	53.2	112,500	0	0
6	58.6	112,500	0	0	58.6	112,500	0	0
7	63.2	112,500	0	0	63.2	112,500	0	0
8	67.2	112,500	0	0	67.2	112,500	0	0
9	70.5	112,500	0	0	70.5	112,500	0	0
10	73.2	112,500	0	0	73.2	112,500	0	0
11	75.4	112,500	0	0	75.4	112,500	0	0
12	77.2	112,500	0	0	77.2	112,500	0	0
13	78.5	112,500	0	0	78.5	112,500	0	0
14	79.5	112,500	0	0	79.5	112,500	0	0
15	80.2	112,500	0	0	80.2	112,500	0	0
16	80.7	112,500	0	0	80.7	112,500	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$0
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$0

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,700	2.4	2,700
0	8.1	9,112.5	8.1	9,112.5
1	13.3	14,962.5	13.3	14,962.5
2	17.9	20,137.49	17.9	20,137.49
3	22	24,750	22	24,750
4	25.7	28,912.5	25.7	28,912.5
5	28.8	32,400	28.8	32,400
6	31.5	35,437.5	31.5	35,437.5
7	33.8	38,024.99	33.8	38,024.99
8	35.7	40,162.50	35.7	40,162.50
9	37.2	41,850.00	37.2	41,850.00
10	38.4	43,200	38.4	43,200
11	39.2	44,100	39.2	44,100
12	39.7	44,662.5	39.7	44,662.5
13	40	45,000	40	45,000
14	40	45,000	40	45,000
15	40	45,000	40	45,000
16	40	45,000	40	45,000

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 617 Pinewood Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$-11
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$-11
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.331742988122514, -78.71454198784872
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	65.53
Streambed Elevation at the Property Location (ft):	55.09
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.11	388
25	62.31	505
50	62.43	580
100	62.63	677
AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.27	388
25	60.05	505
50	60.27	580
100	60.71	677

Building Information

Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,493
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$0

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	3,732.5	0	0	2.5	3,732.5	0	0
0	13.4	20,006.2	0	0	13.4	20,006.2	0	0
1	23.3	34,786.9	0	0	23.3	34,786.9	0	0
2	32.1	47,925.3	0	0	32.1	47,925.3	0	0
3	40.1	59,869.3	0	0	40.1	59,869.3	0	0
4	47.1	70,320.3	0	0	47.1	70,320.3	0	0
5	53.2	149,300	0	0	53.2	149,300	0	0
6	58.6	149,300	0	0	58.6	149,300	0	0
7	63.2	149,300	0	0	63.2	149,300	0	0
8	67.2	149,300	0	0	67.2	149,300	0	0
9	70.5	149,300	0	0	70.5	149,300	0	0
10	73.2	149,300	0	0	73.2	149,300	0	0
11	75.4	149,300	0	0	75.4	149,300	0	0
12	77.2	149,300	0	0	77.2	149,300	0	0
13	78.5	149,300	0	0	78.5	149,300	0	0
14	79.5	149,300	0	0	79.5	149,300	0	0
15	80.2	149,300	0	0	80.2	149,300	0	0
16	80.7	149,300	0	0	80.7	149,300	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$0
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$0

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	3,583.2	2.4	3,583.2
0	8.1	12,093.3	8.1	12,093.3
1	13.3	19,856.9	13.3	19,856.9
2	17.9	26,724.7	17.9	26,724.7
3	22	32,846	22	32,846
4	25.7	38,370.1	25.7	38,370.1
5	28.8	42,998.4	28.8	42,998.4
6	31.5	47,029.5	31.5	47,029.5
7	33.8	50,463.4	33.8	50,463.4
8	35.7	53,300.1	35.7	53,300.1
9	37.2	55,539.6	37.2	55,539.6
10	38.4	57,331.2	38.4	57,331.2
11	39.2	58,525.6	39.2	58,525.6
12	39.7	59,272.1	39.7	59,272.1
13	40	59,720	40	59,720
14	40	59,720	40	59,720
15	40	59,720	40	59,720
16	40	59,720	40	59,720

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary
 Floodplain and Stream Restoration @ 619 Pinewood Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$-11
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$-11
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.331515000356134, -78.71455397397027
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	66.11
Streambed Elevation at the Property Location (ft):	55.02
Use Default Recurrence Intervals:	Use Defau No

Discharge

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.04	388
25	62.25	505
50	62.37	580
100	62.52	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.17	388
25	60.03	505
50	60.26	580
100	60.69	677

Building Information

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,989
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$0

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	4,972.5	0	0	2.5	4,972.5	0	0
0	13.4	26,652.60	0	0	13.4	26,652.60	0	0
1	23.3	46,343.70	0	0	23.3	46,343.70	0	0
2	32.1	63,846.9	0	0	32.1	63,846.9	0	0
3	40.1	79,758.90	0	0	40.1	79,758.90	0	0
4	47.1	93,681.90	0	0	47.1	93,681.90	0	0
5	53.2	198,900	0	0	53.2	198,900	0	0
6	58.6	198,900	0	0	58.6	198,900	0	0
7	63.2	198,900	0	0	63.2	198,900	0	0
8	67.2	198,900	0	0	67.2	198,900	0	0
9	70.5	198,900	0	0	70.5	198,900	0	0
10	73.2	198,900	0	0	73.2	198,900	0	0
11	75.4	198,900	0	0	75.4	198,900	0	0
12	77.2	198,900	0	0	77.2	198,900	0	0
13	78.5	198,900	0	0	78.5	198,900	0	0
14	79.5	198,900	0	0	79.5	198,900	0	0
15	80.2	198,900	0	0	80.2	198,900	0	0
16	80.7	198,900	0	0	80.7	198,900	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$0
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$0

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	4,773.6	2.4	4,773.6
0	8.1	16,110.9	8.1	16,110.9
1	13.3	26,453.7	13.3	26,453.7
2	17.9	35,603.1	17.9	35,603.1
3	22	43,758	22	43,758
4	25.7	51,117.3	25.7	51,117.3
5	28.8	57,283.2	28.8	57,283.2
6	31.5	62,653.5	31.5	62,653.5
7	33.8	67,228.2	33.8	67,228.2
8	35.7	71,007.3	35.7	71,007.3
9	37.2	73,990.8	37.2	73,990.8
10	38.4	76,377.6	38.4	76,377.6
11	39.2	77,968.8	39.2	77,968.8
12	39.7	78,963.3	39.7	78,963.3
13	40	79,560	40	79,560
14	40	79,560	40	79,560
15	40	79,560	40	79,560
16	40	79,560	40	79,560

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 624 W Burkhead St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$-12

Total Social Benefits: \$0

Total Mitigation Project Benefits: \$-12

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.331483987314385, -78.71417100481418
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	64.41
Streambed Elevation at the Property Location (ft):	55.02
Use Default Recurrence Intervals:	Use Defau No

Discharge

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	62.04	388
25	62.25	505
50	62.31	580
100	62.51	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	59.17	388
25	60.03	505
50	60.26	580
100	60.69	677

Building Information

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,074	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$12	
Expected Annual Losses due to Building Damages after Mitigation:	\$3	
Expected Annual Benefits - Building:	\$9	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,685	0	0	2.5	2,685	0	0
0	13.4	14,391.6	0	0	13.4	14,391.6	0	0
1	23.3	25,024.2	0	0	23.3	25,024.2	0	0
2	32.1	34,475.4	0	0	32.1	34,475.4	0	0
3	40.1	43,067.4	0	0	40.1	43,067.4	0	0
4	47.1	50,585.4	0	0	47.1	50,585.4	0	0
5	53.2	107,400	0	0	53.2	107,400	0	0
6	58.6	107,400	0	0	58.6	107,400	0	0
7	63.2	107,400	0	0	63.2	107,400	0	0
8	67.2	107,400	0	0	67.2	107,400	0	0
9	70.5	107,400	0	0	70.5	107,400	0	0
10	73.2	107,400	0	0	73.2	107,400	0	0
11	75.4	107,400	0	0	75.4	107,400	0	0
12	77.2	107,400	0	0	77.2	107,400	0	0
13	78.5	107,400	0	0	78.5	107,400	0	0
14	79.5	107,400	0	0	79.5	107,400	0	0
15	80.2	107,400	0	0	80.2	107,400	0	0
16	80.7	107,400	0	0	80.7	107,400	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$10	
Expected Annual Losses due to Content Damages after Mitigation:	\$3	
Expected Annual Benefits - Content:	\$6	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,577.6	2.4	2,577.6
0	8.1	8,699.4	8.1	8,699.4
1	13.3	14,284.2	13.3	14,284.2
2	17.9	19,224.6	17.9	19,224.6
3	22	23,628	22	23,628
4	25.7	27,601.8	25.7	27,601.8
5	28.8	30,931.2	28.8	30,931.2
6	31.5	33,831	31.5	33,831
7	33.8	36,301.2	33.8	36,301.2
8	35.7	38,341.8	35.7	38,341.8
9	37.2	39,952.8	37.2	39,952.8
10	38.4	41,241.6	38.4	41,241.6
11	39.2	42,100.8	39.2	42,100.8
12	39.7	42,637.8	39.7	42,637.8
13	40	42,960	40	42,960
14	40	42,960	40	42,960
15	40	42,960	40	42,960
16	40	42,960	40	42,960

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Number of Workers:	0
Expected Annual Social Benefits:	\$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 620 W Burkhead St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$184
Total Social Benefits:	\$2,443
Total Mitigation Project Benefits:	\$2,627
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title: Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Property Location: 28472, Columbus, North Carolina

Property Coordinates: 34.33107000511656, -78.71428399286899

Hazard Type: Riverine Flood

Mitigation Action Type: Floodplain and Stream Restoration

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Project Useful Life (years): 30

Project Cost: \$0

Number of Maintenance Years: 30 Use Default:Yes

Annual Maintenance Cost: \$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft): 65.12

Streambed Elevation at the Property Location (ft): 55.11

Use Default Recurrence Intervals: Use Defau No

Discharge

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	61.12	388
25	61.47	505
50	61.69	580
100	61.95	677

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.7	388
25	59.51	505
50	59.63	580
100	60.05	677

Building Information

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: No

Comments

- **Has NFIP:** Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,268	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$0	
Expected Annual Benefits - Building:	\$0	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	3,170	0	0	2.5	3,170	0	0
0	13.4	16,991.2	0	0	13.4	16,991.2	0	0
1	23.3	29,544.4	0	0	23.3	29,544.4	0	0
2	32.1	40,702.8	0	0	32.1	40,702.8	0	0
3	40.1	50,846.8	0	0	40.1	50,846.8	0	0
4	47.1	59,722.8	0	0	47.1	59,722.8	0	0
5	53.2	126,800	0	0	53.2	126,800	0	0
6	58.6	126,800	0	0	58.6	126,800	0	0
7	63.2	126,800	0	0	63.2	126,800	0	0
8	67.2	126,800	0	0	67.2	126,800	0	0
9	70.5	126,800	0	0	70.5	126,800	0	0
10	73.2	126,800	0	0	73.2	126,800	0	0
11	75.4	126,800	0	0	75.4	126,800	0	0
12	77.2	126,800	0	0	77.2	126,800	0	0
13	78.5	126,800	0	0	78.5	126,800	0	0
14	79.5	126,800	0	0	79.5	126,800	0	0
15	80.2	126,800	0	0	80.2	126,800	0	0
16	80.7	126,800	0	0	80.7	126,800	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$0	
Expected Annual Benefits - Content:	\$0	

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	3,043.2	2.4	3,043.2
0	8.1	10,270.8	8.1	10,270.8
1	13.3	16,864.4	13.3	16,864.4
2	17.9	22,697.2	17.9	22,697.2
3	22	27,896	22	27,896
4	25.7	32,587.6	25.7	32,587.6
5	28.8	36,518.4	28.8	36,518.4
6	31.5	39,942	31.5	39,942
7	33.8	42,858.4	33.8	42,858.4
8	35.7	45,267.6	35.7	45,267.6
9	37.2	47,169.6	37.2	47,169.6
10	38.4	48,691.2	38.4	48,691.2
11	39.2	49,705.6	39.2	49,705.6
12	39.7	50,339.6	39.7	50,339.6
13	40	50,720	40	50,720
14	40	50,720	40	50,720
15	40	50,720	40	50,720
16	40	50,720	40	50,720

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Number of Workers: 0

Expected Annual Social Benefits: \$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 619 W Burkhead St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$-5

Total Social Benefits: \$2,443

Total Mitigation Project Benefits: \$2,438

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33020499270884, -78.71427200674744
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	64.41
Streambed Elevation at the Property Location (ft):	53.97
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	60.76	404
25	61.07	526
50	61.25	606
100	61.46	712

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.34	404
25	59.22	526
50	59.35	606
100	59.69	712

Building Information

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,070	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$0	
Expected Annual Benefits - Building:	\$0	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,675	0	0	2.5	2,675	0	0
0	13.4	14,338	0	0	13.4	14,338	0	0
1	23.3	24,931	0	0	23.3	24,931	0	0
2	32.1	34,347	0	0	32.1	34,347	0	0
3	40.1	42,907	0	0	40.1	42,907	0	0
4	47.1	50,397	0	0	47.1	50,397	0	0
5	53.2	107,000	0	0	53.2	107,000	0	0
6	58.6	107,000	0	0	58.6	107,000	0	0
7	63.2	107,000	0	0	63.2	107,000	0	0
8	67.2	107,000	0	0	67.2	107,000	0	0
9	70.5	107,000	0	0	70.5	107,000	0	0
10	73.2	107,000	0	0	73.2	107,000	0	0
11	75.4	107,000	0	0	75.4	107,000	0	0
12	77.2	107,000	0	0	77.2	107,000	0	0
13	78.5	107,000	0	0	78.5	107,000	0	0
14	79.5	107,000	0	0	79.5	107,000	0	0
15	80.2	107,000	0	0	80.2	107,000	0	0
16	80.7	107,000	0	0	80.7	107,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$0	
Expected Annual Benefits - Content:	\$0	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,568	2.4	2,568
0	8.1	8,667	8.1	8,667
1	13.3	14,231	13.3	14,231
2	17.9	19,152.99	17.9	19,152.99
3	22	23,540	22	23,540
4	25.7	27,499	25.7	27,499
5	28.8	30,816	28.8	30,816
6	31.5	33,705	31.5	33,705
7	33.8	36,165.99	33.8	36,165.99
8	35.7	38,199.00	35.7	38,199.00
9	37.2	39,804.00	37.2	39,804.00
10	38.4	41,088	38.4	41,088
11	39.2	41,944	39.2	41,944
12	39.7	42,479	39.7	42,479
13	40	42,800	40	42,800
14	40	42,800	40	42,800
15	40	42,800	40	42,800
16	40	42,800	40	42,800

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 116 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 116 Maultsby Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget:	\$0
Total Number of Street Miles Maintained:	0
Street Miles that will not require future maintenance:	0
Expected Annual Benefits - Street Maintenance:	\$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 116 Maultsby Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 116 Maultsby Dr, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 116 Maultsby Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$-4
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$-4
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title: Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Property Location: 28472, Columbus, North Carolina

Property Coordinates: 34.32999498412478, -78.71429296150538

Hazard Type: Riverine Flood

Mitigation Action Type: Floodplain and Stream Restoration

Property Type: Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Project Useful Life (years): 30

Project Cost: \$0

Number of Maintenance Years: 30 Use Default: Yes

Annual Maintenance Cost: \$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft): 64.69

Streambed Elevation at the Property Location (ft): 53.97

Use Default Recurrence Intervals: Use Default No

Discharge

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	60.73	404
25	60.99	526
50	61.17	606
100	61.3	712

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.26	404
25	59.16	526
50	59.26	606
100	59.6	712

Building Information

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Building Type: One Story

Foundation Type:

Building Has Basement: No

NFIP: No

Comments

- **Has NFIP:** Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic	Use Default:Yes
Building Size (sq.ft):	1,373	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$0	
Expected Annual Benefits - Building:	\$0	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	3,432.5	0	0	2.5	3,432.5	0	0
0	13.4	18,398.2	0	0	13.4	18,398.2	0	0
1	23.3	31,990.9	0	0	23.3	31,990.9	0	0
2	32.1	44,073.3	0	0	32.1	44,073.3	0	0
3	40.1	55,057.3	0	0	40.1	55,057.3	0	0
4	47.1	64,668.3	0	0	47.1	64,668.3	0	0
5	53.2	137,300	0	0	53.2	137,300	0	0
6	58.6	137,300	0	0	58.6	137,300	0	0
7	63.2	137,300	0	0	63.2	137,300	0	0
8	67.2	137,300	0	0	67.2	137,300	0	0
9	70.5	137,300	0	0	70.5	137,300	0	0
10	73.2	137,300	0	0	73.2	137,300	0	0
11	75.4	137,300	0	0	75.4	137,300	0	0
12	77.2	137,300	0	0	77.2	137,300	0	0
13	78.5	137,300	0	0	78.5	137,300	0	0
14	79.5	137,300	0	0	79.5	137,300	0	0
15	80.2	137,300	0	0	80.2	137,300	0	0
16	80.7	137,300	0	0	80.7	137,300	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Utilities Elevated:	No	
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$0	
Expected Annual Benefits - Content:	\$0	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	3,295.2	2.4	3,295.2
0	8.1	11,121.3	8.1	11,121.3
1	13.3	18,260.9	13.3	18,260.9
2	17.9	24,576.7	17.9	24,576.7
3	22	30,206	22	30,206
4	25.7	35,286.1	25.7	35,286.1
5	28.8	39,542.4	28.8	39,542.4
6	31.5	43,249.5	31.5	43,249.5
7	33.8	46,407.4	33.8	46,407.4
8	35.7	49,016.1	35.7	49,016.1
9	37.2	51,075.6	37.2	51,075.6
10	38.4	52,723.2	38.4	52,723.2
11	39.2	53,821.6	39.2	53,821.6
12	39.7	54,508.1	39.7	54,508.1
13	40	54,920	40	54,920
14	40	54,920	40	54,920
15	40	54,920	40	54,920
16	40	54,920	40	54,920

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 114 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 114 Maultsby Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$-3

Total Social Benefits: \$0

Total Mitigation Project Benefits: \$-3

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.32957400303779, -78.71424401119083
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	63.26
Streambed Elevation at the Property Location (ft):	53.92
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	60.57	404
25	60.78	526
50	60.9	606
100	61.06	712

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.12	404
25	59	526
50	59.06	606
100	59.39	712

Building Information

Floodplain and Stream Restoration @ 104 Maultsby Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,074
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$2
Expected Annual Losses due to Building Damages after Mitigation:	\$0
Expected Annual Benefits - Building:	\$2

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,685	0	0	2.5	2,685	0	0
0	13.4	14,391.6	0	0	13.4	14,391.6	0	0
1	23.3	25,024.2	0	0	23.3	25,024.2	0	0
2	32.1	34,475.4	0	0	32.1	34,475.4	0	0
3	40.1	43,067.4	0	0	40.1	43,067.4	0	0
4	47.1	50,585.4	0	0	47.1	50,585.4	0	0
5	53.2	107,400	0	0	53.2	107,400	0	0
6	58.6	107,400	0	0	58.6	107,400	0	0
7	63.2	107,400	0	0	63.2	107,400	0	0
8	67.2	107,400	0	0	67.2	107,400	0	0
9	70.5	107,400	0	0	70.5	107,400	0	0
10	73.2	107,400	0	0	73.2	107,400	0	0
11	75.4	107,400	0	0	75.4	107,400	0	0
12	77.2	107,400	0	0	77.2	107,400	0	0
13	78.5	107,400	0	0	78.5	107,400	0	0
14	79.5	107,400	0	0	79.5	107,400	0	0
15	80.2	107,400	0	0	80.2	107,400	0	0
16	80.7	107,400	0	0	80.7	107,400	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$2
Expected Annual Losses due to Content Damages after Mitigation:	\$0
Expected Annual Benefits - Content:	\$1

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,577.6	2.4	2,577.6
0	8.1	8,699.4	8.1	8,699.4
1	13.3	14,284.2	13.3	14,284.2
2	17.9	19,224.6	17.9	19,224.6
3	22	23,628	22	23,628
4	25.7	27,601.8	25.7	27,601.8
5	28.8	30,931.2	28.8	30,931.2
6	31.5	33,831	31.5	33,831
7	33.8	36,301.2	33.8	36,301.2
8	35.7	38,341.8	35.7	38,341.8
9	37.2	39,952.8	37.2	39,952.8
10	38.4	41,241.6	38.4	41,241.6
11	39.2	42,100.8	39.2	42,100.8
12	39.7	42,637.8	39.7	42,637.8
13	40	42,960	40	42,960
14	40	42,960	40	42,960
15	40	42,960	40	42,960
16	40	42,960	40	42,960

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Number of Workers: 0

Expected Annual Social Benefits: \$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 104 Maulsby Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$37

Total Social Benefits: \$2,443

Total Mitigation Project Benefits: \$2,480

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 100 Maulsby Dr, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.32931701388644, -78.71414703257109
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 100 Maulsby Dr, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 100 Maulsby Dr, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	62.26
Streambed Elevation at the Property Location (ft):	53.92
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 100 Maulsby Dr, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	60.48	404
25	60.66	526
50	60.76	606
100	60.89	712

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.03	404
25	58.93	526
50	59	606
100	59.28	712

Building Information

Floodplain and Stream Restoration @ 100 Maulsby Dr, Whiteville, North Carolina, 28472

Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Depth Damage Curve:	USACE Generic Use Default:Yes
Building Size (sq.ft):	1,000
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$137
Expected Annual Losses due to Building Damages after Mitigation:	\$3
Expected Annual Benefits - Building:	\$134

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	2,500	0	0	2.5	2,500	0	0
0	13.4	13,400	0	0	13.4	13,400	0	0
1	23.3	23,300	0	0	23.3	23,300	0	0
2	32.1	32,100	0	0	32.1	32,100	0	0
3	40.1	40,100	0	0	40.1	40,100	0	0
4	47.1	47,100	0	0	47.1	47,100	0	0
5	53.2	100,000	0	0	53.2	100,000	0	0
6	58.6	100,000	0	0	58.6	100,000	0	0
7	63.2	100,000	0	0	63.2	100,000	0	0
8	67.2	100,000	0	0	67.2	100,000	0	0
9	70.5	100,000	0	0	70.5	100,000	0	0
10	73.2	100,000	0	0	73.2	100,000	0	0
11	75.4	100,000	0	0	75.4	100,000	0	0
12	77.2	100,000	0	0	77.2	100,000	0	0
13	78.5	100,000	0	0	78.5	100,000	0	0
14	79.5	100,000	0	0	79.5	100,000	0	0
15	80.2	100,000	0	0	80.2	100,000	0	0
16	80.7	100,000	0	0	80.7	100,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Utilities Elevated:	No
Expected Annual Losses due to Content Damages before Mitigation:	\$129
Expected Annual Losses due to Content Damages after Mitigation:	\$3
Expected Annual Benefits - Content:	\$126

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	2.4	2,400	2.4	2,400
0	8.1	8,100	8.1	8,100
1	13.3	13,300	13.3	13,300
2	17.9	17,899.99	17.9	17,899.99
3	22	22,000	22	22,000
4	25.7	25,700	25.7	25,700
5	28.8	28,800	28.8	28,800
6	31.5	31,500	31.5	31,500
7	33.8	33,799.99	33.8	33,799.99
8	35.7	35,700.00	35.7	35,700.00
9	37.2	37,200.00	37.2	37,200.00
10	38.4	38,400	38.4	38,400
11	39.2	39,200.00	39.2	39,200.00
12	39.7	39,700.00	39.7	39,700.00
13	40	40,000	40	40,000
14	40	40,000	40	40,000
15	40	40,000	40	40,000
16	40	40,000	40	40,000

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Lodging Per Diem:	\$96	Use Default:Yes
Meals Per Diem:	\$59	Use Default:Yes
Population Affected:	1	
Total Residential Displacement Cost:	\$148	
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,660	45	6,660
2	90	13,320	90	13,320
3	135	19,980	135	19,980
4	180	26,640	180	26,640
5	225	33,300	225	33,300
6	270	39,960	270	39,960
7	315	46,620	315	46,620
8	360	53,280	360	53,280
9	405	59,940	405	59,940
10	450	66,600	450	66,600
11	495	73,260	495	73,260
12	540	79,920	540	79,920
13	585	86,580	585	86,580
14	630	93,240	630	93,240
15	675	99,900	675	99,900
16	720	106,560	720	106,560

Additional Benefits - Street Maintenance

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Total Annual Street Maintenance Budget: \$0

Total Number of Street Miles Maintained: 0

Street Miles that will not require future maintenance: 0

Expected Annual Benefits - Street Maintenance: \$0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0

Number of Days of Lodging: 0

Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Total Project Area (acres): 0

Percentage of Urban Green Open Space: 0.00%

Percentage of Rural Green Open Space: 0.00%

Percentage of Riparian: 0.00%

Percentage of Coastal Wetlands: 0.00%

Percentage of Inland Wetlands: 0.00%

Percentage of Forests: 0.00%

Percentage of Coral Reefs: 0.00%

Percentage of Shellfish Reefs: 0.00%

Percentage of Beaches and Dunes: 0.00%

Expected Annual Ecosystem Services Benefits: \$0

Additional Benefits - Social

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Number of Workers: 0

Expected Annual Social Benefits: \$2,443

Benefits-Costs Summary

Floodplain and Stream Restoration @ 100 Maultsby Dr, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits: \$3,232

Total Social Benefits: \$2,443

Total Mitigation Project Benefits: \$5,675

Total Mitigation Project Cost: \$0

Benefit Cost Ratio - Standard: 0

Benefit Cost Ratio - Standard + Social: 0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.32883601837271, -78.7128689599749
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	63.33
Streambed Elevation at the Property Location (ft):	52.19
Use Default Recurrence Intervals:	Use Default <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	58.33	404
25	59.02	526
50	59.1	606
100	59.37	712

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	57.81	404
25	58.74	526
50	58.74	606
100	58.96	712

Building Information

Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	REL: Religious/Non-Profit - Church or Membership Organization
Building is outside hundred-year flood area:	No
Building Type:	Religious Facilities
Building Is Engineered:	No
NFIP:	No

Comments

- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Religious Facilities (Default)	Use Default:Yes
Building Size (sq.ft):	2,572	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$0	
Expected Annual Losses due to Building Damages after Mitigation:	\$0	
Expected Annual Benefits - Building:	\$0	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.4	1,028.8	0	0	0.4	1,028.8	0	0
-1	0.4	1,028.8	0	0	0.4	1,028.8	0	0
0	0.7	1,800.39	0	0	0.7	1,800.39	0	0
1	16.4	42,180.79	0	0	16.4	42,180.79	0	0
2	28.3	72,787.6	0	0	28.3	72,787.6	0	0
3	35.9	92,334.8	0	0	35.9	92,334.8	0	0
4	42.9	110,338.8	0	0	42.9	110,338.8	0	0
5	48.4	124,484.8	0	0	48.4	124,484.8	0	0
6	54.2	257,200	0	0	54.2	257,200	0	0
7	58.1	257,200	0	0	58.1	257,200	0	0
8	62.1	257,200	0	0	62.1	257,200	0	0
9	65.3	257,200	0	0	65.3	257,200	0	0
10	66.1	257,200	0	0	66.1	257,200	0	0
11	66.1	257,200	0	0	66.1	257,200	0	0
12	66.1	257,200	0	0	66.1	257,200	0	0
13	66.1	257,200	0	0	66.1	257,200	0	0
14	66.1	257,200	0	0	66.1	257,200	0	0
15	66.1	257,200	0	0	66.1	257,200	0	0
16	66.1	257,200	0	0	66.1	257,200	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$0	
Expected Annual Losses due to Content Damages after Mitigation:	\$0	
Expected Annual Benefits - Content:	\$0	

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	29	5,967.04	29	5,967.04
2	48	9,876.48	48	9,876.48
3	60	12,345.6	60	12,345.6
4	69	14,197.44	69	14,197.44
5	76	15,637.76	76	15,637.76
6	81	16,666.56	81	16,666.56
7	88	18,106.88	88	18,106.88
8	94	19,341.44	94	19,341.44
9	97	19,958.72	97	19,958.72
10	97	19,958.72	97	19,958.72
11	97	19,958.72	97	19,958.72
12	97	19,958.72	97	19,958.72
13	97	19,958.72	97	19,958.72
14	97	19,958.72	97	19,958.72
15	97	19,958.72	97	19,958.72
16	97	19,958.72	97	19,958.72

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	1.02	Use Default:Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default:Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$0	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$0	
Expected Annual Losses - Displacement:	\$0	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	6,145.31	45	6,145.31
2	90	12,290.63	90	12,290.63
3	135	18,435.95	135	18,435.95
4	180	24,581.27	180	24,581.27
5	225	30,726.59	225	30,726.59
6	270	36,871.91	270	36,871.91
7	315	43,017.23	315	43,017.23
8	360	49,162.55	360	49,162.55
9	405	55,307.87	405	55,307.87
10	450	61,453.19	450	61,453.19
11	450	61,453.19	450	61,453.19
12	450	38,812.53	450	38,812.53
13	450	38,812.53	450	38,812.53
14	450	38,812.53	450	38,812.53
15	450	38,812.53	450	38,812.53
16	450	38,812.53	450	38,812.53

Standard Benefits - Loss of Function/Loss of Income
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Annual Operating Budget: \$0
 Loss of Function/Loss of Income Per Day: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income before mitigation: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income after mitigation: \$0
 Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income: \$0

Depth Damage Curve - Loss of Function/Loss of Income
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0
 Number of Days of Lodging: 0
 Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services
 Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0
 Percentage of Urban Green Open Space: 0.00%
 Percentage of Rural Green Open Space: 0.00%
 Percentage of Riparian: 0.00%
 Percentage of Coastal Wetlands: 0.00%
 Percentage of Inland Wetlands: 0.00%
 Percentage of Forests: 0.00%
 Percentage of Coral Reefs: 0.00%
 Percentage of Shellfish Reefs: 0.00%
 Percentage of Beaches and Dunes: 0.00%
 Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary
Floodplain and Stream Restoration @ 601 W Lewis St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$0
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$0
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33865801633273, -78.7145859928404
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67.91
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.22	307
25	67.01	400
50	67.82	477
100	68.14	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	63.68	307
25	64.57	400
50	65.36	477
100	65.86	558

Building Information

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	COM4: Commercial - Professional/Technical/Business Services
Building is outside hundred-year flood area:	No
Building Type:	Office One-Story
Building Is Engineered:	No
NFIP:	No

Comments

- **Structure Type:**
Veterinary Clinic
- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Office One-Story (Default)	Use Default:Yes
Building Size (sq.ft):	3,600	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$1,631	
Expected Annual Losses due to Building Damages after Mitigation:	\$592	
Expected Annual Benefits - Building:	\$1,039	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.8	2,880	0	0	0.8	2,880	0	0
-1	0.8	2,880	0	0	0.8	2,880	0	0
0	1.6	5,760	0	0	1.6	5,760	0	0
1	13.5	48,600	0	0	13.5	48,600	0	0
2	19.4	69,840	0	0	19.4	69,840	0	0
3	25.4	91,440	0	0	25.4	91,440	0	0
4	30.5	109,800	0	0	30.5	109,800	0	0
5	33.5	120,600	0	0	33.5	120,600	0	0
6	38.6	138,960	0	0	38.6	138,960	0	0
7	45.7	164,520	0	0	45.7	164,520	0	0
8	51.1	360,000	0	0	51.1	360,000	0	0
9	55	360,000	0	0	55	360,000	0	0
10	59.1	360,000	0	0	59.1	360,000	0	0
11	59.1	360,000	0	0	59.1	360,000	0	0
12	59.1	360,000	0	0	59.1	360,000	0	0
13	59.1	360,000	0	0	59.1	360,000	0	0
14	59.1	360,000	0	0	59.1	360,000	0	0
15	59.1	360,000	0	0	59.1	360,000	0	0
16	59.1	360,000	0	0	59.1	360,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$254	
Expected Annual Losses due to Content Damages after Mitigation:	\$83	
Expected Annual Benefits - Content:	\$171	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	1	504	1	504
-1	1	504	1	504
0	1	504	1	504
1	20	10,080	20	10,080
2	34	17,136	34	17,136
3	45	22,680	45	22,680
4	55	27,720	55	27,720
5	64	32,256	64	32,256
6	73	36,792	73	36,792
7	76	38,304	76	38,304
8	83	41,832	83	41,832
9	89	44,856	89	44,856
10	91	45,864	91	45,864
11	91	45,864	91	45,864
12	91	45,864	91	45,864
13	91	45,864	91	45,864
14	91	45,864	91	45,864
15	91	45,864	91	45,864
16	91	45,864	91	45,864

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	1.36	Use Default:Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default:Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$480	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$236	
Expected Annual Losses - Displacement:	\$244	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	9,657.86	45	9,657.86
2	90	19,315.72	90	19,315.72
3	135	28,973.58	135	28,973.58
4	180	50,703.78	180	50,703.78
5	225	63,379.72	225	63,379.72
6	270	76,055.67	270	76,055.67
7	315	88,731.61	315	88,731.61
8	360	120,723.28	360	120,723.28
9	405	135,813.69	405	135,813.69
10	450	150,904.10	450	150,904.10
11	450	150,904.10	450	150,904.10
12	450	72,433.97	450	72,433.97
13	450	72,433.97	450	72,433.97
14	450	72,433.97	450	72,433.97
15	450	72,433.97	450	72,433.97
16	450	72,433.97	450	72,433.97

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget:	\$0
Loss of Function/Loss of Income Per Day:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income before mitigation:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income after mitigation:	\$0
Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income:	\$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 606 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$18,040
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$18,040
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title: Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Property Location: 28472, Columbus, North Carolina

Property Coordinates: 34.33864401855443, -78.7148370308405

Hazard Type: Riverine Flood

Mitigation Action Type: Floodplain and Stream Restoration

Property Type: Non-Residential Building

Analysis Method Type: Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years): 30

Project Cost: \$0

Number of Maintenance Years: 30 Use Default:Yes

Annual Maintenance Cost: \$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft): 67.91

Streambed Elevation at the Property Location (ft): 60.04

Use Default Recurrence Intervals: Use Defau No

Discharge

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.22	307
25	67.01	400
50	67.82	477
100	68.14	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	63.68	307
25	64.57	400
50	65.36	477
100	65.86	558

Building Information

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type: COM1: Commercial - Retail Trade

Building is outside hundred-year flood area: No

Building Type: Office One-Story

Building Is Engineered: No

NFIP: No

Comments

-

Structure Type:

Veterinary Clinic

Standard Benefits - Building
Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Office One-Story (Default)	Use Default:Yes
Building Size (sq.ft):	3,840	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$1,740	
Expected Annual Losses due to Building Damages after Mitigation:	\$631	
Expected Annual Benefits - Building:	\$1,109	

Depth Damage Curve - Building
Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.8	3,072	0	0	0.8	3,072	0	0
-1	0.8	3,072	0	0	0.8	3,072	0	0
0	1.6	6,144	0	0	1.6	6,144	0	0
1	13.5	51,840	0	0	13.5	51,840	0	0
2	19.4	74,496	0	0	19.4	74,496	0	0
3	25.4	97,536	0	0	25.4	97,536	0	0
4	30.5	117,120	0	0	30.5	117,120	0	0
5	33.5	128,640	0	0	33.5	128,640	0	0
6	38.6	148,224	0	0	38.6	148,224	0	0
7	45.7	175,488	0	0	45.7	175,488	0	0
8	51.1	384,000	0	0	51.1	384,000	0	0
9	55	384,000	0	0	55	384,000	0	0
10	59.1	384,000	0	0	59.1	384,000	0	0
11	59.1	384,000	0	0	59.1	384,000	0	0
12	59.1	384,000	0	0	59.1	384,000	0	0
13	59.1	384,000	0	0	59.1	384,000	0	0
14	59.1	384,000	0	0	59.1	384,000	0	0
15	59.1	384,000	0	0	59.1	384,000	0	0
16	59.1	384,000	0	0	59.1	384,000	0	0

Standard Benefits - Contents
Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$271	
Expected Annual Losses due to Content Damages after Mitigation:	\$89	
Expected Annual Benefits - Content:	\$182	

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	1	537.6	1	537.6
-1	1	537.6	1	537.6
0	1	537.6	1	537.6
1	20	10,752	20	10,752
2	34	18,278.4	34	18,278.4
3	45	24,192	45	24,192
4	55	29,568	55	29,568
5	64	34,406.4	64	34,406.4
6	73	39,244.8	73	39,244.8
7	76	40,857.6	76	40,857.6
8	83	44,620.8	83	44,620.8
9	89	47,846.4	89	47,846.4
10	91	48,921.6	91	48,921.6
11	91	48,921.6	91	48,921.6
12	91	48,921.6	91	48,921.6
13	91	48,921.6	91	48,921.6
14	91	48,921.6	91	48,921.6
15	91	48,921.6	91	48,921.6
16	91	48,921.6	91	48,921.6

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	1.16	Use Default:Yes
One-Time Displacement Cost (\$/sq.ft):	1.09	Use Default:Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$542	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$266	
Expected Annual Losses - Displacement:	\$276	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	10,434.27	45	10,434.27
2	90	20,868.55	90	20,868.55
3	135	31,302.83	135	31,302.83
4	180	54,917.26	180	54,917.26
5	225	68,646.57	225	68,646.57
6	270	82,375.89	270	82,375.89
7	315	96,105.20	315	96,105.20
8	360	136,194.80	360	136,194.80
9	405	153,219.15	405	153,219.15
10	450	170,243.50	450	170,243.50
11	450	170,243.50	450	170,243.50
12	450	65,900.71	450	65,900.71
13	450	65,900.71	450	65,900.71
14	450	65,900.71	450	65,900.71
15	450	65,900.71	450	65,900.71
16	450	65,900.71	450	65,900.71

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget:	\$0
Loss of Function/Loss of Income Per Day:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income before mitigation:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income after mitigation:	\$0
Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income:	\$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary
Floodplain and Stream Restoration @ 610 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$19,441
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$19,441
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.338522019953714, -78.71514598779154
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	68.57
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.34	307
25	67.08	400
50	67.86	477
100	68.18	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.45	307
25	65.43	400
50	66.01	477
100	66.41	558

Building Information

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	COM3: Commercial - Personal and Repair Services
Building is outside hundred-year flood area:	No
Building Type:	Office One-Story
Building Is Engineered:	No
NFIP:	No

Comments

- **Structure Type:**
Veterinary Clinic
- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Office One-Story (Default)	Use Default:Yes
Building Size (sq.ft):	5,200	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$1,739	
Expected Annual Losses due to Building Damages after Mitigation:	\$547	
Expected Annual Benefits - Building:	\$1,192	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.8	4,160	0	0	0.8	4,160	0	0
-1	0.8	4,160	0	0	0.8	4,160	0	0
0	1.6	8,320	0	0	1.6	8,320	0	0
1	13.5	70,200	0	0	13.5	70,200	0	0
2	19.4	100,879.99	0	0	19.4	100,879.99	0	0
3	25.4	132,080	0	0	25.4	132,080	0	0
4	30.5	158,600	0	0	30.5	158,600	0	0
5	33.5	174,200	0	0	33.5	174,200	0	0
6	38.6	200,720	0	0	38.6	200,720	0	0
7	45.7	237,640.00	0	0	45.7	237,640.00	0	0
8	51.1	520,000	0	0	51.1	520,000	0	0
9	55	520,000	0	0	55	520,000	0	0
10	59.1	520,000	0	0	59.1	520,000	0	0
11	59.1	520,000	0	0	59.1	520,000	0	0
12	59.1	520,000	0	0	59.1	520,000	0	0
13	59.1	520,000	0	0	59.1	520,000	0	0
14	59.1	520,000	0	0	59.1	520,000	0	0
15	59.1	520,000	0	0	59.1	520,000	0	0
16	59.1	520,000	0	0	59.1	520,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$254	
Expected Annual Losses due to Content Damages after Mitigation:	\$77	
Expected Annual Benefits - Content:	\$177	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	1	728	1	728
-1	1	728	1	728
0	1	728	1	728
1	20	14,560	20	14,560
2	34	24,752	34	24,752
3	45	32,760	45	32,760
4	55	40,040	55	40,040
5	64	46,592	64	46,592
6	73	53,144	73	53,144
7	76	55,328	76	55,328
8	83	60,424	83	60,424
9	89	64,792	89	64,792
10	91	66,248	91	66,248
11	91	66,248	91	66,248
12	91	66,248	91	66,248
13	91	66,248	91	66,248
14	91	66,248	91	66,248
15	91	66,248	91	66,248
16	91	66,248	91	66,248

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	1.36	Use Default:Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default:Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$286	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$102	
Expected Annual Losses - Displacement:	\$184	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	10,462.68	45	10,462.68
2	90	20,925.36	90	20,925.36
3	135	31,388.05	135	31,388.05
4	180	52,313.42	180	52,313.42
5	225	65,391.78	225	65,391.78
6	270	78,470.13	270	78,470.13
7	315	91,548.49	315	91,548.49
8	360	83,701.47	360	83,701.47
9	405	94,164.16	405	94,164.16
10	450	104,626.84	450	104,626.84
11	450	104,626.84	450	104,626.84
12	450	104,626.84	450	104,626.84
13	450	104,626.84	450	104,626.84
14	450	104,626.84	450	104,626.84
15	450	104,626.84	450	104,626.84
16	450	104,626.84	450	104,626.84

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget: \$0
 Loss of Function/Loss of Income Per Day: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income before mitigation: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income after mitigation: \$0
 Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income: \$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0
 Number of Days of Lodging: 0
 Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0
 Percentage of Urban Green Open Space: 0.00%
 Percentage of Rural Green Open Space: 0.00%
 Percentage of Riparian: 0.00%
 Percentage of Coastal Wetlands: 0.00%
 Percentage of Inland Wetlands: 0.00%
 Percentage of Forests: 0.00%
 Percentage of Coral Reefs: 0.00%
 Percentage of Shellfish Reefs: 0.00%
 Percentage of Beaches and Dunes: 0.00%
 Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary
Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$19,259
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$19,259
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.338522019953714, -78.71514598779154
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67.14
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.34	307
25	67.08	400
50	67.86	477
100	68.18	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.45	307
25	65.43	400
50	66.01	477
100	66.41	558

Building Information

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	IND2: Industrial - Light
Building Type:	Warehouse-Non-Refrig
Building Is Engineered:	No
NFIP:	No

Comments

-
- **Structure Type:**
Veterinary Clinic
-
- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Warehouse, Non-Refrig (Default) Use Default:Yes
Building Size (sq.ft):	7,176
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$5,080
Expected Annual Losses due to Building Damages after Mitigation:	\$2,035
Expected Annual Benefits - Building:	\$3,045

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.5	3,588	0	0	0.5	3,588	0	0
-1	0.5	3,588	0	0	0.5	3,588	0	0
0	1.1	7,893.6	0	0	1.1	7,893.6	0	0
1	11.8	84,676.8	0	0	11.8	84,676.8	0	0
2	19.9	142,802.4	0	0	19.9	142,802.4	0	0
3	25.4	182,270.4	0	0	25.4	182,270.4	0	0
4	31.4	225,326.4	0	0	31.4	225,326.4	0	0
5	34.2	245,419.2	0	0	34.2	245,419.2	0	0
6	39	279,864	0	0	39	279,864	0	0
7	41.8	299,956.8	0	0	41.8	299,956.8	0	0
8	45.7	327,943.2	0	0	45.7	327,943.2	0	0
9	50.4	717,600	0	0	50.4	717,600	0	0
10	51.7	717,600	0	0	51.7	717,600	0	0
11	51.7	717,600	0	0	51.7	717,600	0	0
12	51.7	717,600	0	0	51.7	717,600	0	0
13	51.7	717,600	0	0	51.7	717,600	0	0
14	51.7	717,600	0	0	51.7	717,600	0	0
15	51.7	717,600	0	0	51.7	717,600	0	0
16	51.7	717,600	0	0	51.7	717,600	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$2,440
Expected Annual Losses due to Content Damages after Mitigation:	\$870
Expected Annual Benefits - Content:	\$1,570

Depth Damage Curve - Contents
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	21	70,827.12	21	70,827.12
2	34	114,672.48	34	114,672.48
3	47	158,517.84	47	158,517.84
4	57	192,245.04	57	192,245.04
5	66	222,599.52	66	222,599.52
6	74	249,581.28	74	249,581.28
7	81	273,190.32	81	273,190.32
8	88	296,799.36	88	296,799.36
9	92	310,290.24	92	310,290.24
10	94	317,035.68	94	317,035.68
11	94	317,035.68	94	317,035.68
12	94	317,035.68	94	317,035.68
13	94	317,035.68	94	317,035.68
14	94	317,035.68	94	317,035.68
15	94	317,035.68	94	317,035.68
16	94	317,035.68	94	317,035.68

Standard Benefits - Displacement
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	0.27	Use Default: Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default: Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$269	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$36	
Expected Annual Losses - Displacement:	\$233	

Depth Damage Curve - Displacement
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	1,194.36	45	1,194.36
2	90	2,388.72	90	2,388.72
3	135	3,583.08	135	3,583.08
4	180	4,777.44	180	4,777.44
5	225	5,971.80	225	5,971.80
6	270	7,166.16	270	7,166.16
7	315	8,360.53	315	8,360.53
8	360	9,554.89	360	9,554.89
9	405	10,749.25	405	10,749.25
10	450	11,943.61	450	11,943.61
11	450	11,943.61	450	11,943.61
12	450	11,943.61	450	11,943.61
13	450	11,943.61	450	11,943.61
14	450	11,943.61	450	11,943.61
15	450	11,943.61	450	11,943.61
16	450	11,943.61	450	11,943.61

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget: \$0
 Loss of Function/Loss of Income Per Day: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income before mitigation: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income after mitigation: \$0
 Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income: \$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0
 Number of Days of Lodging: 0
 Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0
 Percentage of Urban Green Open Space: 0.00%
 Percentage of Rural Green Open Space: 0.00%
 Percentage of Riparian: 0.00%
 Percentage of Coastal Wetlands: 0.00%
 Percentage of Inland Wetlands: 0.00%
 Percentage of Forests: 0.00%
 Percentage of Coral Reefs: 0.00%
 Percentage of Shellfish Reefs: 0.00%
 Percentage of Beaches and Dunes: 0.00%
 Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$60,158
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$60,158
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.338522019953714, -78.71514598779154
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	67
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.24	307
25	67.01	400
50	67.82	477
100	68.15	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.55	307
25	65.15	400
50	65.62	477
100	66.04	558

Building Information

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	IND2: Industrial - Light
Building Type:	Warehouse-Non-Refrig
Building Is Engineered:	No
NFIP:	No

Comments

-
- **Structure Type:**
Veterinary Clinic
-
- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Warehouse, Non-Refrig (Default) Use Default:Yes
Building Size (sq.ft):	1,740
Building Replacement Value (\$/sq.ft):	\$100 Use Default:Yes
Demolition Threshold (%):	50.00% Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$1,303
Expected Annual Losses due to Building Damages after Mitigation:	\$405
Expected Annual Benefits - Building:	\$898

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.5	870	0	0	0.5	870	0	0
-1	0.5	870	0	0	0.5	870	0	0
0	1.1	1,914.00	0	0	1.1	1,914.00	0	0
1	11.8	20,532	0	0	11.8	20,532	0	0
2	19.9	34,626	0	0	19.9	34,626	0	0
3	25.4	44,196	0	0	25.4	44,196	0	0
4	31.4	54,636	0	0	31.4	54,636	0	0
5	34.2	59,508.00	0	0	34.2	59,508.00	0	0
6	39	67,860	0	0	39	67,860	0	0
7	41.8	72,732	0	0	41.8	72,732	0	0
8	45.7	79,518	0	0	45.7	79,518	0	0
9	50.4	174,000	0	0	50.4	174,000	0	0
10	51.7	174,000	0	0	51.7	174,000	0	0
11	51.7	174,000	0	0	51.7	174,000	0	0
12	51.7	174,000	0	0	51.7	174,000	0	0
13	51.7	174,000	0	0	51.7	174,000	0	0
14	51.7	174,000	0	0	51.7	174,000	0	0
15	51.7	174,000	0	0	51.7	174,000	0	0
16	51.7	174,000	0	0	51.7	174,000	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0 Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$653
Expected Annual Losses due to Content Damages after Mitigation:	\$169
Expected Annual Benefits - Content:	\$484

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	21	17,173.8	21	17,173.8
2	34	27,805.2	34	27,805.2
3	47	38,436.6	47	38,436.6
4	57	46,614.6	57	46,614.6
5	66	53,974.8	66	53,974.8
6	74	60,517.2	74	60,517.2
7	81	66,241.8	81	66,241.8
8	88	71,966.4	88	71,966.4
9	92	75,237.6	92	75,237.6
10	94	76,873.2	94	76,873.2
11	94	76,873.2	94	76,873.2
12	94	76,873.2	94	76,873.2
13	94	76,873.2	94	76,873.2
14	94	76,873.2	94	76,873.2
15	94	76,873.2	94	76,873.2
16	94	76,873.2	94	76,873.2

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	0.27	Use Default: Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default: Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$78	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$6	
Expected Annual Losses - Displacement:	\$72	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	289.60	45	289.60
2	90	579.20	90	579.20
3	135	868.80	135	868.80
4	180	1,158.41	180	1,158.41
5	225	1,448.01	225	1,448.01
6	270	1,737.61	270	1,737.61
7	315	2,027.21	315	2,027.21
8	360	2,316.82	360	2,316.82
9	405	2,606.42	405	2,606.42
10	450	2,896.02	450	2,896.02
11	450	2,896.02	450	2,896.02
12	450	2,896.02	450	2,896.02
13	450	2,896.02	450	2,896.02
14	450	2,896.02	450	2,896.02
15	450	2,896.02	450	2,896.02
16	450	2,896.02	450	2,896.02

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget:	\$0
Loss of Function/Loss of Income Per Day:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income before mitigation:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income after mitigation:	\$0
Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income:	\$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary
Floodplain and Stream Restoration @ 614 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$18,045
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$18,045
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.338452994981054, -78.71563901133632
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	68.15
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66.17	307
25	66.97	400
50	67.8	477
100	68.12	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	64.18	307
25	64.82	400
50	65.33	477
100	65.8	558

Building Information

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	IND2: Industrial - Light
Building Type:	Office One-Story
Building Is Engineered:	No
NFIP:	No

Comments

-
- **Structure Type:**
Veterinary Clinic
-
- **Has NFIP:**
Unknown

Standard Benefits - Building
Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Office One-Story (Default)	Use Default:Yes
Building Size (sq.ft):	1,740	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$527	
Expected Annual Losses due to Building Damages after Mitigation:	\$51	
Expected Annual Benefits - Building:	\$476	

Depth Damage Curve - Building
Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.8	1,088	0	0	0.8	1,088	0	0
-1	0.8	1,088	0	0	0.8	1,088	0	0
0	1.6	2,176	0	0	1.6	2,176	0	0
1	13.5	18,360	0	0	13.5	18,360	0	0
2	19.4	26,383.99	0	0	19.4	26,383.99	0	0
3	25.4	34,544	0	0	25.4	34,544	0	0
4	30.5	41,480	0	0	30.5	41,480	0	0
5	33.5	45,560	0	0	33.5	45,560	0	0
6	38.6	52,496	0	0	38.6	52,496	0	0
7	45.7	62,152.00	0	0	45.7	62,152.00	0	0
8	51.1	136,000	0	0	51.1	136,000	0	0
9	55	136,000	0	0	55	136,000	0	0
10	59.1	136,000	0	0	59.1	136,000	0	0
11	59.1	136,000	0	0	59.1	136,000	0	0
12	59.1	136,000	0	0	59.1	136,000	0	0
13	59.1	136,000	0	0	59.1	136,000	0	0
14	59.1	136,000	0	0	59.1	136,000	0	0
15	59.1	136,000	0	0	59.1	136,000	0	0
16	59.1	136,000	0	0	59.1	136,000	0	0

Standard Benefits - Contents
Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$79	
Expected Annual Losses due to Content Damages after Mitigation:	\$7	
Expected Annual Benefits - Content:	\$72	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	1	190.4	1	190.4
-1	1	190.4	1	190.4
0	1	190.4	1	190.4
1	20	3,808	20	3,808
2	34	6,473.6	34	6,473.6
3	45	8,568	45	8,568
4	55	10,472	55	10,472
5	64	12,185.6	64	12,185.6
6	73	13,899.2	73	13,899.2
7	76	14,470.4	76	14,470.4
8	83	15,803.2	83	15,803.2
9	89	16,945.6	89	16,945.6
10	91	17,326.4	91	17,326.4
11	91	17,326.4	91	17,326.4
12	91	17,326.4	91	17,326.4
13	91	17,326.4	91	17,326.4
14	91	17,326.4	91	17,326.4
15	91	17,326.4	91	17,326.4
16	91	17,326.4	91	17,326.4

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	0.27	Use Default: Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default: Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$21	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$1	
Expected Annual Losses - Displacement:	\$20	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	289.60	45	289.60
2	90	579.20	90	579.20
3	135	868.80	135	868.80
4	180	1,158.41	180	1,158.41
5	225	1,448.01	225	1,448.01
6	270	1,737.61	270	1,737.61
7	315	2,027.21	315	2,027.21
8	360	2,316.82	360	2,316.82
9	405	2,606.42	405	2,606.42
10	450	2,896.02	450	2,896.02
11	450	2,896.02	450	2,896.02
12	450	2,896.02	450	2,896.02
13	450	2,896.02	450	2,896.02
14	450	2,896.02	450	2,896.02
15	450	2,896.02	450	2,896.02
16	450	2,896.02	450	2,896.02

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget: \$0
 Loss of Function/Loss of Income Per Day: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income before mitigation: \$0
 Expected Annual Losses due to Loss of Function/Loss of Income after mitigation: \$0
 Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income: \$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event): 0
 Number of Days of Lodging: 0
 Expected Annual Volunteer Benefits: \$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres): 0
 Percentage of Urban Green Open Space: 0.00%
 Percentage of Rural Green Open Space: 0.00%
 Percentage of Riparian: 0.00%
 Percentage of Coastal Wetlands: 0.00%
 Percentage of Inland Wetlands: 0.00%
 Percentage of Forests: 0.00%
 Percentage of Coral Reefs: 0.00%
 Percentage of Shellfish Reefs: 0.00%
 Percentage of Beaches and Dunes: 0.00%
 Expected Annual Ecosystem Services Benefits: \$0

Benefits-Costs Summary

Floodplain and Stream Restoration @ 702 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$7,047
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$7,047
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.33826599472121, -78.71603698409909
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Non-Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Project Useful Life (years):	30
Project Cost:	\$0
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$0

Hazard Probabilities Parameters - Flood

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Lowest Floor Elevation of the Property (ft):	70.1
Streambed Elevation at the Property Location (ft):	60.04
Use Default Recurrence Intervals:	Use Defau <input checked="" type="radio"/> No

Discharge

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

BEFORE MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	66	307
25	66.93	400
50	67.77	477
100	68.09	558

AFTER MITIGATION		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)
10	63.64	307
25	64	400
50	64.93	477
100	65.45	558

Building Information

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Non-Residential Occupancy Type:	COM4: Commercial - Professional/Technical/Business Services
Building is outside hundred-year flood area:	No
Building Type:	Office One-Story
Building Is Engineered:	No
NFIP:	No

Comments

- **Structure Type:**
Veterinary Clinic
- **Has NFIP:**
Unknown

Standard Benefits - Building
 Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Depth Damage Curve:	Office One-Story (Default)	Use Default:Yes
Building Size (sq.ft):	2,202	
Building Replacement Value (\$/sq.ft):	\$100	Use Default:Yes
Demolition Threshold (%):	50.00%	Use Default:Yes
Expected Annual Losses due to Building Damages before Mitigation:	\$300	
Expected Annual Losses due to Building Damages after Mitigation:	\$12	
Expected Annual Benefits - Building:	\$288	

Depth Damage Curve - Building
 Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION				AFTER MITIGATION			
	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Damage Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0.8	1,761.60	0	0	0.8	1,761.60	0	0
-1	0.8	1,761.60	0	0	0.8	1,761.60	0	0
0	1.6	3,523.20	0	0	1.6	3,523.20	0	0
1	13.5	29,727	0	0	13.5	29,727	0	0
2	19.4	42,718.79	0	0	19.4	42,718.79	0	0
3	25.4	55,930.79	0	0	25.4	55,930.79	0	0
4	30.5	67,161	0	0	30.5	67,161	0	0
5	33.5	73,767	0	0	33.5	73,767	0	0
6	38.6	84,997.2	0	0	38.6	84,997.2	0	0
7	45.7	100,631.40	0	0	45.7	100,631.40	0	0
8	51.1	220,200	0	0	51.1	220,200	0	0
9	55	220,200	0	0	55	220,200	0	0
10	59.1	220,200	0	0	59.1	220,200	0	0
11	59.1	220,200	0	0	59.1	220,200	0	0
12	59.1	220,200	0	0	59.1	220,200	0	0
13	59.1	220,200	0	0	59.1	220,200	0	0
14	59.1	220,200	0	0	59.1	220,200	0	0
15	59.1	220,200	0	0	59.1	220,200	0	0
16	59.1	220,200	0	0	59.1	220,200	0	0

Standard Benefits - Contents
 Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Contents Value in Dollars:	\$0	Use Default:Yes
Expected Annual Losses due to Content Damages before Mitigation:	\$42	
Expected Annual Losses due to Content Damages after Mitigation:	\$2	
Expected Annual Benefits - Content:	\$41	

Depth Damage Curve - Contents

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Percent (%)	Damage Value (\$)	Percent (%)	Damage Value (\$)
-2	1	308.28	1	308.28
-1	1	308.28	1	308.28
0	1	308.28	1	308.28
1	20	6,165.6	20	6,165.6
2	34	10,481.52	34	10,481.52
3	45	13,872.6	45	13,872.6
4	55	16,955.4	55	16,955.4
5	64	19,729.92	64	19,729.92
6	73	22,504.44	73	22,504.44
7	76	23,429.28	76	23,429.28
8	83	25,587.24	83	25,587.24
9	89	27,436.92	89	27,436.92
10	91	28,053.48	91	28,053.48
11	91	28,053.48	91	28,053.48
12	91	28,053.48	91	28,053.48
13	91	28,053.48	91	28,053.48
14	91	28,053.48	91	28,053.48
15	91	28,053.48	91	28,053.48
16	91	28,053.48	91	28,053.48

Standard Benefits - Displacement

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Monthly Displacement Cost (\$/sq.ft/month):	1.36	Use Default:Yes
One-Time Displacement Cost (\$/sq.ft):	0.95	Use Default:Yes
Expected Annual Losses due to Displacement Damages before mitigation:	\$117	
Expected Annual Losses due to Displacement Damages after Mitigation:	\$5	
Expected Annual Losses - Displacement:	\$113	

Depth Damage Curve - Displacement

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	5,907.39	45	5,907.39
2	90	11,814.78	90	11,814.78
3	135	17,722.17	135	17,722.17
4	180	31,013.81	180	31,013.81
5	225	38,767.26	225	38,767.26
6	270	46,520.71	270	46,520.71
7	315	54,274.17	315	54,274.17
8	360	73,842.41	360	73,842.41
9	405	83,072.71	405	83,072.71
10	450	92,303.01	450	92,303.01
11	450	92,303.01	450	92,303.01
12	450	44,305.44	450	44,305.44
13	450	44,305.44	450	44,305.44
14	450	44,305.44	450	44,305.44
15	450	44,305.44	450	44,305.44
16	450	44,305.44	450	44,305.44

Standard Benefits - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Annual Operating Budget:	\$0
Loss of Function/Loss of Income Per Day:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income before mitigation:	\$0
Expected Annual Losses due to Loss of Function/Loss of Income after mitigation:	\$0
Expected Annual Benefits - Expected Annual Benefits - Loss of Function/Loss of Income:	\$0

Depth Damage Curve - Loss of Function/Loss of Income

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Flood Depth (ft)	BEFORE MITIGATION		AFTER MITIGATION	
	Days	Damage Value (\$)	Days	Damage Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	45	0
2	90	0	90	0
3	135	0	135	0
4	180	0	180	0
5	225	0	225	0
6	270	0	270	0
7	315	0	315	0
8	360	0	360	0
9	405	0	405	0
10	450	0	450	0
11	450	0	450	0
12	450	0	450	0
13	450	0	450	0
14	450	0	450	0
15	450	0	450	0
16	450	0	450	0

Standard Benefits - Volunteer Costs

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Number of Volunteers (volunteers/event):	0
Number of Days of Lodging:	0
Expected Annual Volunteer Benefits:	\$0

Standard Benefits - Ecosystem Services

Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Total Project Area (acres):	0
Percentage of Urban Green Open Space:	0.00%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	0.00%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$0

Benefits-Costs Summary
Floodplain and Stream Restoration @ 706 Washington St, Whiteville, North Carolina, 28472

Total Standard Mitigation Benefits:	\$5,474
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$5,474
Total Mitigation Project Cost:	\$0
Benefit Cost Ratio - Standard:	0
Benefit Cost Ratio - Standard + Social:	0

Property Configuration

Property Title:	Floodplain and Stream Restoration @ Whiteville, North Carolina
Property Location:	28472, Columbus, North Carolina
Property Coordinates:	34.34142000000003, -78.70306999999997
Hazard Type:	Riverine Flood
Mitigation Action Type:	Floodplain and Stream Restoration
Property Type:	Other
Analysis Method Type:	Professional Expected Damages

Cost Estimation
Floodplain and Stream Restoration @ Whiteville, North Carolina

Project Useful Life (years):	30
Project Cost:	\$4,927,533
Number of Maintenance Years:	30 Use Default:Yes
Annual Maintenance Cost:	\$24,638

Comments

-

Annual Maintenance Cost:

Annual maintenance cost calculated at 0.5% of total project cost using FEMA's "Supplemental Guidance For Conducting a Benefit-Cost Analysis (BCA) for a Floodwater Diversion and Storage Project (Task Order: HSFE60-16-J-1424)

Damage Analysis Parameters - Damage Frequency Assessment
Floodplain and Stream Restoration @ Whiteville, North Carolina

Year of Analysis was Conducted:	2022
Year Property was Built:	0
Analysis Duration:	10 Use Default:Yes

Professional Expected Damages Before Mitigation
Floodplain and Stream Restoration @ Whiteville, North Carolina

Recurrence Interval (years)	OTHER			OPTIONAL DAMAGES			VOLUNTEER COSTS		TOTAL Damages (\$)
	Recurrence Interval (years)	Damages (\$)	Category 1 (\$)	Category 2 (\$)	Category 3 (\$)	Number of Volunteers	Number of Days		
0	0	0	0	0	0	0	0	0	0

Comments

-

Damages Before Mitigation:

All expected damages (before and after mitigation) are included as separate BCA line items for each property where damage reduction is expected to occur.

Annualized Damages Before Mitigation
Floodplain and Stream Restoration @ Whiteville, North Carolina

Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)
	Sum Damages and Losses (\$)	Sum Annualized Damages and Losses (\$)
	0	0

Professional Expected Damages After Mitigation
Floodplain and Stream Restoration @ Whiteville, North Carolina

Recurrence Interval (years)	OTHER			OPTIONAL DAMAGES			VOLUNTEER COSTS		TOTAL Damages (\$)
	Recurrence Interval (years)	Damages (\$)	Category 1 (\$)	Category 2 (\$)	Category 3 (\$)	Number of Volunteers	Number of Days		
0	0	0	0	0	0	0	0	0	0

Comments

-

Damages After Mitigation:

All expected damages (before and after mitigation) are included as separate BCA line items for each property where damage reduction is expected to occur.

Annualized Damages After Mitigation
Floodplain and Stream Restoration @ Whiteville, North Carolina

Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)
	Sum Damages and Losses (\$)	Sum Annualized Damages and Losses (\$)
0	0	0

Standard Benefits - Ecosystem Services
Floodplain and Stream Restoration @ Whiteville, North Carolina

Total Project Area (acres):	15.07
Percentage of Urban Green Open Space:	12.94%
Percentage of Rural Green Open Space:	0.00%
Percentage of Riparian:	64.96%
Percentage of Coastal Wetlands:	0.00%
Percentage of Inland Wetlands:	0.00%
Percentage of Forests:	0.00%
Percentage of Coral Reefs:	0.00%
Percentage of Shellfish Reefs:	0.00%
Percentage of Beaches and Dunes:	0.00%
Expected Annual Ecosystem Services Benefits:	\$394,464

Benefits-Costs Summary
Floodplain and Stream Restoration @ Whiteville, North Carolina

Total Standard Mitigation Benefits:	\$4,894,925
Total Social Benefits:	\$0
Total Mitigation Project Benefits:	\$4,894,925
Total Mitigation Project Cost:	\$5,233,267
Benefit Cost Ratio - Standard:	0.94
Benefit Cost Ratio - Standard + Social:	0.94