Project Summary				
Mitigation Title	Hazard	Benefits (B)	Costs (C)	BCR (B/C)
3		(-)	(1)	,
Acquisition @ 208 Highland				
Ave, Lumberton, North				
Carolina, 28358	Riverine Flood	\$22,037	\$0	0
Floodplain and Stream				
Restoration @ Lumberton,				
	)FA - Riverine Floo	\$3,862,702	\$2,793,897	1.38
Acquisition @ 108 Best Dr,				
Lumberton, North Carolina,				
28358	Riverine Flood	\$61,478	\$0	0
Acquisition @ 122 Best Dr,				
Lumberton, North Carolina,				
28358	Riverine Flood	\$9,945	\$0	0
Acquisition @ 205 Highland				
Ave, Lumberton, North				
Carolina, 28358	Riverine Flood	\$49,123	\$0	0
	Total	\$4,005,285	\$2,793,897	1.43

Property Configuration	
Property Title:	Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Property Location:	28358, Robeson, North Carolina
Property Coordinates:	34.642214, -79.005419
Hazard Type:	Riverine Flood
Mitigation Action Type:	Acquisition
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation	Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Project Useful Life (years):	100
Project Cost: Number of Maintenance	\$0
Years:	100 Use Default: Yes
Annual Maintenance Cost:	\$0

Comments

Mitigation Project Cost: Total project cost and budget reflected in the 'Floodplain and Stream Restoration' mitigation action.

Hazard Probabilities Parame	ters	
- Flood		Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Lowest Floor Elevation of t	he	
Property (ft):		126.69
Streambed Elevation at the	<b>;</b>	
Property Location (ft):		115.2 Use Default Recurrence Intervals:
Use Default:	Yes	

Comments	
Lowest Floor Elevation:	LFE derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)
Streambed Elevation:	Streambed elevation from HEC-RAS derived cross section dataset (from National Flood Hazard Layer)

Discharge			Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Before N	/litigation		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)	
10	124.6	1060	
50	125.5	1540	
100	126.1	1730	
500	126.5	2210	
After M	itigation		
	Surface	Discharge	
Recurrence Interval (years)	Elevation (ft)	(cfs)	
10	124.6	1060	
50	125.5	1540	
100	126.1	1730	
500	126.5	2210	

Building Information	Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

Building Type: All building information derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Standard Benefits - Building			Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Depth Damage Curve:	USACE Generic Use Default	Yes	
Building Size (sq.ft):	2,524		
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:	\$807.00		
Expected Annual Losses due			
to Building Damages after			
Mitigation :	\$0.00		
Expected Annual Benefits -			
Building :	\$807.00		

Comments	
Building Size:	All building information derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Depth Damage Curve - Building				Acquisition @ 2	208 Highland Ave	e, Lumberton, N	orth Carolina,	28358
		Before Miti Damage	_			After Mi Damage	•	
Flood Depth (ft)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	6,310	0	0	0	0	0	0
0	13.4	33,821.60	0	0	0	0	0	0
1	23.3	58,809.20	0	0	0	0	0	0
2	32.1	81,020.40	0	0	0	0	0	0
3	40.1	101,212.40	0	0	0	0	0	0
4	47.1	118,880.40	0	0	0	0	0	0
5	53.2	252,400	0	0	0	0	0	0
6	58.6	252,400	0	0	0	0	0	0
7	63.2	252,400	0	0	0	0	0	0
8	67.2	252,400	0	0	0	0	0	0
9	70.5	252,400	0	0	0	0	0	0
10	73.2	252,400	0	0	0	0	0	0
11	75.4	252,400	0	0	0	0	0	0
12	77.2	252,400	0	0	0	0	0	0
13	78.5	252,400	0	0	0	0	0	0
14	79.5	252,400	0	0	0	0	0	0
15	80.2	252,400	0	0	0	0	0	0
16	80.7	252,400	0	0	0	0	0	0

Standard Benefits - Contents				Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Contents Value in Dollars:		Use Default:	Yes	
Utilities Elevated:	No			
Expected Annual Losses due				
to Content Damages before				
Mitigation:	\$737.00			
Expected Annual Losses due				
to Content Damages after				
Mitigation:	\$0.00			
Expected Annual Benefits -				
Content:	\$737.00			

Depth Damage Curve - Contents				Acquisition @ :	208 Highland Av
	Before Mit	tigation Damage	After Mit	igation Damage	
Flood Depth (ft)	Percent (%)	Value (\$)	Percent (%)	Value (\$)	
-2	0	0	0	0	
-1	2.4	6,057.60	0	0	
0	8.1	20,444.40	0	0	
1	13.3	33,569.20	0	0	
2	17.9	45,179.60	0	0	
3	22	55,528	0	0	
4	25.7	64,866.80	0	0	
5	28.8	72,691.20	0	0	
6	31.5	79,506	0	0	
7	33.8	85,311.20	0	0	
8	35.7	90,106.80	0	0	
9 10	37.2	93,892.80	0	0	
11	38.4 39.2	96,921.60 98,940.80	0 0	0	
12	39.7	100,202.80	0	0	
13	40	100,202.00	0	0	
14	40	100,960	0	0	
15	40	100,960	0	0	
16	40	100,960	0	0	

Standard Benefits -			
Displacement			Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Lodging Per Diem:	\$96 Use Defaul	t: Yes	
Meals Per Diem:	\$55 Use Defaul	t: Yes	
Population Affected:	0		
Total Residential			
Displacement Cost:	\$0		
Expected Annual Losses due			
to Displacement Damages			
before mitigation:	\$0.00		
Expected Annual Losses due			
to Displacement Damages			
after Mitigation:	\$0.00		
Expected Annual Losses -			
Displacement:	\$0.00		

Depth Dam Displaceme	age Curve - nt				Acquisition @ 20	8 Highland Ave. Lu	ımberton, North Carolina, 28358
		Before Mit	igation Damage	After N	Aitigation  Damage	J	
Floo	od Depth (ft)	Days	Value (\$)	Days	Value (\$)		
	-2	0	0	0	0		
	-1	0	0	0	0		
	0	0	0	0	0		
	1	45	0	0	0		
	2	90	0	0	0		
	3	135	0	0	0		
	4	180	0	0	0		
	5	225	0	0	0		
	6	270	0	0	0		
	7	315	0	0	0		
	8	360	0	0	0		
	9	405	0	0	0		
	10	450	0	0	0		
	11	495	0	0	0		
	12	540	0	0	0		
	13	585	0	0	0		
	14	630	0	0	0		
	15	675	0	0	0		
	16	720	0	0	0		

Additional Benefits - Street Maintenance		Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
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:	\$0.00	

Standard Benefits - Volunteer Costs		Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
		3
Number of Volunteers		
(volunteers/event):	0	
Number of Days of Lodging:	0	
Expected Annual Volunteer		
Benefits:	\$0	

Standard Benefits - Ecosystem		
Services		Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Total Project Area (acres):	0	
Percentage of Green Open		
Space:	0.00%	
Percentage of Riparian:	0.00%	
Percentage of Wetlands:	0.00%	
Percentage of Forests:	0.00%	
Percentage of Marine Estuary:	0.00%	
Expected Annual Ecosystem		
Services Benefits:	\$0	

Benefits-Costs Summary		Acquisition @ 208 Highland Ave, Lumberton, North Carolina, 28358
Total Standard Mitigation		
Benefits:	\$22,037	
Total Social Benefits:	\$0	
Total Mitigation Project		
Benefits:	\$22,037	
Total Mitigation Project Cost:	\$0	
Benefit Cost Ratio - Standard:	0	
Benefit Cost Ratio - Standard		
+ Social:	0	

Property Configuration	
Property Title:	Floodplain and Stream Restoration @ Lumberton, North Carolina
Property Location:	28358, Robeson, North Carolina
Property Coordinates:	34.61898, -79.01398
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 @ Lumberton, North Carolina
Project Useful Life (years):	30	
Project Cost: Number of Maintenance	\$2,623,670	
Years:	30 Use Default: Yes	
Annual Maintenance Cost:	\$13,718	

Comments	
Mitigation Project Cost:	This figure represents total project budget (including costs of acquisitions listed as separate mitigation actions). Annual manneriance cost estimated at 1% total cost of green ministructure interventions (stream restoration, wetland construction, and noouplain reforestation) including cost
	of acquisition, demolition, and stie preparation. Annual maintenance costs for recreational infrastructure is based on cost estimates from the Green Values National Stormwater
Annual Maintenance Cost:	Management Calculator,

Damage Analysis Parameters - Damage Frequency Assessment		Floodplain and Stream Restoration @ Lumberton, North Carolina
Year of Analysis Conducted:	2021	
Year Property was Built:	0	
Analysis Duration:	10 Use Default: Yes	

Professional Expected Damages Before Mitigation				Floodplain and	Stream Restora	tion @ Lumber	ton, North Carolina
	Other	Op Category 1	otional Damag Category 2		Volunte Number of	er Costs Number of	Total
Recurrence Interval (years)	Damages (\$)	(\$)	(\$)	(\$)	Volunteers	Days	Damages (\$)
10	0	0	0	0	0	0	0
25	66,531	0	0	0	0	0	66,531
100	200,872	0	0	0	0	0	200,872

Annualized Damages Before Mitigation			Floodplain and Stream Restoration @ Lumberton, North Carolina
		Annualized	
		Damages	
Annualized Recurrence	Damages and	and Losses	
Interval (years)	Losses (\$)	(\$)	
10	0	0	
25	66,531	3,468	
100	200,872	2,009	

Professional Expected Damages After Mitigation				Floodplain and	Stream Restora	tion @ Lumber	ton, North Carolina
	Other	Op Category 1	otional Damag Category 2	ges Category 3	Volunte Number of	er Costs Number of	Total
Recurrence Interval (years)	Damages (\$)	(\$)	(\$)	(\$)	Volunteers	Days	Damages (\$)
10	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0

Annualized Damages After Mitigation			Floodplain and Stream Restoration @ Lumberton, North Carolina
Annualized Recurrence Interval (years)	Damages and Losses (\$)	Annualized Damages and Losses (\$)	
10	0	0	
25	0	0	
100	0	0	

Standard Benefits - Ecosystem	
Services	
Total Project Area (acres):	13.8
Percentage of Green Open	
Space:	4.30%
Percentage of Riparian:	52.50%
Percentage of Wetlands:	14.70%
Percentage of Forests:	28.50%
Percentage of Marine Estuary:	0.00%
Expected Annual Ecosystem	
Services Benefits:	\$305,804.26

Benefits-Costs Summary		Floodplain and Stream Restoration @ Lumberton, North Carolina
Total Standard Mitigation		
Benefits:	\$3,862,702	
Total Social Benefits:	\$0	
Total Mitigation Project		
Benefits:	\$3,862,702	
Total Mitigation Project Cost:	\$2,793,897	
Benefit Cost Ratio - Standard:	1.38	
Benefit Cost Ratio - Standard		
+ Social:	1.38	

Property Configuration	
Property Title:	Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Property Location:	28358, Robeson, North Carolina
Property Coordinates:	34.643558, -79.006824
Hazard Type:	Riverine Flood
Mitigation Action Type:	Acquisition
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation	Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Project Useful Life (years):	100
Project Cost: Number of Maintenance	\$0
Years:	100 Use Default: Yes
Annual Maintenance Cost:	\$0

Comments	
Mitigation Project Cost:	Total project cost and maintenance cost reflected in the 'Floodplain and Stream Restoration' mitigation action.

Hazard Probabilities Parameters			4
- Flood		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358	ı
Lowest Floor Elevation of the Property (ft):		124.8	
Streambed Elevation at the Property Location (ft):		115.2 Use Default Recurrence Intervals:	
Use Default:	Yes		

Comments

Lowest Floor Elevation: LFE derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Streambed Elevation: Streambed elevation from HEC-RAS derived cross section dataset (from National Flood Hazard Layer)

Discharge			Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Before N	/litigation		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)	
10	123.6	1060	
50	125	1540	
100	125.2	1730	
500	125.7	2210	
After M	After Mitigation		
	Surface	Discharge	
Recurrence Interval (years)	Elevation (ft)	(cfs)	
10	123.6	1060	
50	125	1540	
100	125.2	1730	
500	125.7	2210	

Building Information	Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Building Type:	Two or More Stories
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments	
Building Type:	All building information derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Standard Benefits - Building				Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Depth Damage Curve:	USACE Generic	Use Default:	Yes	
Building Size (sq.ft):	2,699			
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:	\$2,744.00			
Expected Annual Losses due				
to Building Damages after				
Mitigation :	\$0.00			
Expected Annual Benefits -				
Building :	\$2,744.00			

Depth Damage Curve - Building				Acquisition @ 1	108 Best Dr, Lum	berton, North C	arolina, 28358	
		Before Miti Damage				After Mi Damage	_	
Flood Depth (ft)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	3	8,097	0	0	0	0	0	0
0	9.3	25,100.70	0	0	0	0	0	0
1	15.2	41,024.79	0	0	0	0	0	0
2	20.9	56,409.10	0	0	0	0	0	0
3	26.3	70,983.70	0	0	0	0	0	0
4	31.4	84,748.59	0	0	0	0	0	0
5	36.2	97,703.80	0	0	0	0	0	0
6	40.7	109,849.30	0	0	0	0	0	0
7	44.9	121,185.09	0	0	0	0	0	0
8	48.8	131,711.19	0	0	0	0	0	0
9	52.4	269,900	0	0	0	0	0	0
10	55.7	269,900	0	0	0	0	0	0
11	58.7	269,900	0	0	0	0	0	0
12	61.4	269,900	0	0	0	0	0	0
13	63.8	269,900	0	0	0	0	0	0
14	65.9	269,900	0	0	0	0	0	0
15	67.7	269,900	0	0	0	0	0	0
16	69.2	269,900	0	0	0	0	0	0

Standard Benefits - Contents		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Contents Value in Dollars:	\$0 Use Default: Yes	
Utilities Elevated:	No	
Expected Annual Losses due		
to Content Damages before		
Mitigation:	\$1,565.00	
Expected Annual Losses due		
to Content Damages after		
Mitigation:	\$0.00	
Expected Annual Benefits -		
Content:	\$1,565.00	

Depth Damage Curve - Contents				Acquisition @	108 Best Dr, Lumberton, North Carolina, 28358
	Before Mit	igation Damage	After Mi	tigation Damage	
Flood Depth (ft)	Percent (%)	Value (\$)	Percent (%)	Value (\$)	
-2	0	0	0	0	
-1	1	2,699	0	0	
0	5	13,495	0	0	
1	8.7	23,481.30	0	0	
2	12.2	32,927.80	0	0	
3	15.5	41,834.50	0	0	
4	18.5	49,931.50	0	0	
5	21.3	57,488.70	0	0	
6	23.9	64,506.10	0	0	
7	26.3	70,983.70	0	0	
8	28.4	76,651.60	0	0	
9	30.3	81,779.70	0	0	
10	32	86,368	0	0	
11	33.4	90,146.60	0	0	
12	34.7	93,655.30	0	0	
13	35.6	96,084.40	0	0	
14	36.4	98,243.60	0	0	
15	36.9	99,593.10	0	0	
16	37.2	100,402.80	0	0	

Standard Benefits -		
Displacement		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Lodging Per Diem:	\$96 Use Default: Y	es
Meals Per Diem:	\$55 Use Default: Y	es
Population Affected:	0	
Total Residential		
Displacement Cost:	\$0	
Expected Annual Losses due		
to Displacement Damages		
before mitigation:	\$0.00	
Expected Annual Losses due		
to Displacement Damages		
after Mitigation:	\$0.00	
Expected Annual Losses -		
Displacement:	\$0.00	

oth Damage Curve - placement				Acquisition @
	Before M	litigation Damage	After N	Mitigation Damage
Flood Depth (ft)	Days	Value (\$)	Days	Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	0	0
2	90	0	0	0
3	135	0	0	0
4	180	0	0	0
5	225	0	0	0
6	270	0	0	0
7	315	0	0	0
8	360	0	0	0
9	405	0	0	0
10	450	0	0	0
11	495	0	0	0
12	540	0	0	0
13	585	0	0	0
14	630	0	0	0
15	675	0	0	0
16	720	0	0	0

Additional Benefits - Street Maintenance		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
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:	\$0.00	

Standard Benefits - Volunteer		
Costs		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Number of Volunteers		
(volunteers/event):	0	
Number of Days of Lodging:	0	
Expected Annual Volunteer		
Benefits:	\$0	

Standard Benefits - Ecosystem		
Services		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Total Project Area (acres):	0	
Percentage of Green Open		
Space:	0.00%	
Percentage of Riparian:	0.00%	
Percentage of Wetlands:	0.00%	
Percentage of Forests:	0.00%	
Percentage of Marine Estuary:	0.00%	
Expected Annual Ecosystem		
Services Benefits:	\$0	

Benefits-Costs Summary		Acquisition @ 108 Best Dr, Lumberton, North Carolina, 28358
Total Standard Mitigation		
Benefits:	\$61,478	
Total Social Benefits:	\$0	
Total Mitigation Project Benefits:	\$61,478	
Total Mitigation Project Cost:	\$0	
Benefit Cost Ratio - Standard:	0	
Benefit Cost Ratio - Standard		
+ Social:	0	

Property Configuration	
Property Title:	Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Property Location:	28358, Robeson, North Carolina
Property Coordinates:	34.644291, -79.007976
Hazard Type:	Riverine Flood
Mitigation Action Type:	Acquisition
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation	Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Project Useful Life (years):	100
Project Cost: Number of Maintenance	\$0
Years:	100 Use Default: Yes
Annual Maintenance Cost:	\$0

Comments

Mitigation Project Cost: Total project cost and maintenance cost reflected in the 'Floodplain and Stream Restoration' mitigation action.

Hazard Probabilities Parameters
-Flood

Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358

Lowest Floor Elevation of the
Property (ft): 126.1

Streambed Elevation at the
Property Location (ft): 115.2 Use Default Recurrence Intervals:
Use Default: Yes

Comments

Lowest Floor Elevation: LFE derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Streambed Elevation: Streambed elevation from HEC-RAS derived cross section dataset (from National Flood Hazard Layer)

Discharge			Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Before N	/litigation		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)	
10	123	1060	
50	124.7	1540	
100	125	1730	
500	125.4	2210	
After M	itigation		
	Surface	Discharge	
Recurrence Interval (years)	Elevation (ft)	(cfs)	
10	123	1060	
50	124.7	1540	
100	125	1730	
500	125.4	2210	

Building Information	Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

Building Type:

All building information derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Standard Benefits - Building				Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Depth Damage Curve:	USACE Generic	Use Default:	Yes	
Building Size (sq.ft):	2,261			
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:	\$384.00			
Expected Annual Losses due				
to Building Damages after				
Mitigation :	\$0.00			
Expected Annual Benefits -				
Building :	\$384.00			

Depth Damage Curve - Building				Acquisition @ 1	122 Best Dr, Lum	berton, North C	arolina, 28358	i
		Before Mit Damage	igation			After Mi Damage	tigation	
Flood Depth (ft)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	3	6,783	0	0	0	0	0	0
0	9.3	21,027.30	0	0	0	0	0	0
1	15.2	34,367.20	0	0	0	0	0	0
2	20.9	47,254.89	0	0	0	0	0	0
3	26.3	59,464.30	0	0	0	0	0	0
4	31.4	70,995.40	0	0	0	0	0	0
5	36.2	81,848.20	0	0	0	0	0	0
6	40.7	92,022.70	0	0	0	0	0	0
7	44.9	101,518.90	0	0	0	0	0	0
8	48.8	110,336.79	0	0	0	0	0	0
9	52.4	226,100	0	0	0	0	0	0
10	55.7	226,100	0	0	0	0	0	0
11	58.7	226,100	0	0	0	0	0	0
12	61.4	226,100	0	0	0	0	0	0
13	63.8	226,100	0	0	0	0	0	0
14	65.9	226,100	0	0	0	0	0	0
15	67.7	226,100	0	0	0	0	0	0
16	69.2	226,100	0	0	0	0	0	0

Standard Benefits - Contents		Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Contents Value in Dollars:	\$0 Use Default: Yes	
Utilities Elevated:	No	
Expected Annual Losses due		
to Content Damages before Mitigation:	\$313.00	
Expected Annual Losses due		
to Content Damages after		
Mitigation:	\$0.00	
Expected Annual Benefits -		
Content:	\$313.00	

Depth Damage Curve - Contents			,	Acquisition @
	Before Mit	igation Damage	After Mit	igation Damage
Flood Depth (ft)	Percent (%)	Value (\$)	Percent (%)	Value (\$)
-2	0	0	0	0
-1	1	2,261	0	0
0	5	11,305	0	0
1	8.7	19,670.69	0	0
2	12.2	27,584.20	0	0
3	15.5	35,045.50	0	0
4	18.5	41,828.50	0	0
5	21.3	48,159.30	0	0
6	23.9	54,037.90	0	0
7	26.3	59,464.30	0	0
8	28.4	64,212.40	0	0
9	30.3	68,508.30	0	0
10	32	72,352	0	0
11	33.4	75,517.40	0	0
12	34.7	78,456.70	0	0
13	35.6	80,491.60	0	0
14	36.4	82,300.40	0	0
15	36.9	83,430.90	0	0
16	37.2	84,109.20	0	0

Standard Benefits -				
Displacement				Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Lodging Per Diem:	\$96 U	Jse Default:	Yes	
Meals Per Diem:	\$55 U	Jse Default:	Yes	
Population Affected:	0			
Total Residential				
Displacement Cost:	\$0			
Expected Annual Losses due				
to Displacement Damages				
before mitigation:	\$0.00			
Expected Annual Losses due				
to Displacement Damages				
after Mitigation:	\$0.00			
Expected Annual Losses -				
Displacement:	\$0.00			

pth Damage Curve -				
placement				Acquisition @
	Before M	litigation Damage	After N	Mitigation Damage
Flood Depth (ft)	Days	Value (\$)	Days	Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	0	0
2	90	0	0	0
3	135	0	0	0
4	180	0	0	0
5	225	0	0	0
6	270	0	0	0
7	315	0	0	0
8	360	0	0	0
9	405	0	0	0
10	450	0	0	0
11	495	0	0	0
12	540	0	0	0
13	585	0	0	0
14	630	0	0	0
15	675	0	0	0
16	720	0	0	0

Additional Benefits - Street Maintenance		Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
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:	\$0.00	

Standard Benefits - Volunteer		
Costs		Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Number of Volunteers		
(volunteers/event):	0	
Number of Days of Lodging:	0	
Expected Annual Volunteer		
Benefits:	\$0	

Standard Benefits - Ecosystem		
Services		Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Total Project Area (acres):	0	
Percentage of Green Open		
Space:	0.00%	
Percentage of Riparian:	0.00%	
Percentage of Wetlands:	0.00%	
Percentage of Forests:	0.00%	
Percentage of Marine Estuary:	0.00%	
Expected Annual Ecosystem		
Services Benefits:	\$0	

Benefits-Costs Summary		Acquisition @ 122 Best Dr, Lumberton, North Carolina, 28358
Total Standard Mitigation		
Benefits:	\$9,945	
Total Social Benefits:	\$0	
Total Mitigation Project Benefits:	\$9,945	
Total Mitigation Project Cost:	\$0	
Benefit Cost Ratio - Standard:	0	
Benefit Cost Ratio - Standard		
+ Social:	0	

Property Configuration	
Property Title:	Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Property Location:	28358, Robeson, North Carolina
Property Coordinates:	34.642715, -79.005923
Hazard Type:	Riverine Flood
Mitigation Action Type:	Acquisition
Property Type:	Residential Building
Analysis Method Type:	Modeled Damages

Cost Estimation	Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Project Useful Life (years):	100
Project Cost: Number of Maintenance	\$0
Years:	100 Use Default: Yes
Annual Maintenance Cost:	\$0

Comments

Mitigation Project Cost: Total project cost and maintenance cost reflected in the 'Floodplain and Stream Restoration' mitigation action.

Hazard Probabilities Parameters
- Flood Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358

Lowest Floor Elevation of the Property (ft): 125.5

Streambed Elevation at the Property Location (ft): 115.2 Use Default Recurrence Intervals:

Use Default: Yes

Comments
Lowest Floor Elevation: LFE derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Streambed Elevation: Streambed elevation from HEC-RAS derived cross section dataset (from National Flood Hazard Layer)

Discharge			Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Before N	/litigation		
Recurrence Interval (years)	Surface Elevation (ft)	Discharge (cfs)	
10	124.3	1060	
50	125.4	1540	
100	125.6	1730	
500	126.1	2210	
After M	itigation		
	Surface	Discharge	
Recurrence Interval (years)	Elevation (ft)	(cfs)	
10	124.3	1060	
50	125.4	1540	
100	125.6	1730	
500	126.1	2210	

Building Information	Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Building Type:	One Story
Foundation Type:	
Building Has Basement:	No
NFIP:	No

Comments

Building Type:

All building information derived from the NC Building Footprint dataset developed for the NC Floodplain Mapping program (fris.nc.gov)

Standard Benefits - Building		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Depth Damage Curve:	USACE Generic Use Default:	Yes
Building Size (sq.ft):	1,859	
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:	\$1,918.00	
Expected Annual Losses due		
to Building Damages after		
Mitigation :	\$0.00	
Expected Annual Benefits -		
Building :	\$1,918.00	

Depth Damage Curve - Building				Acquisition @ 2	205 Highland Ave	e, Lumberton, N	orth Carolina,	28358
		Before Mit Damage	igation			After Mi Damage	tigation	
Flood Depth (ft)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)	Percent (%)	Value (\$)	NFIP (\$)	ICC Fees (\$)
-2	0	0	0	0	0	0	0	0
-1	2.5	4,647.50	0	0	0	0	0	0
0	13.4	24,910.60	0	0	0	0	0	0
1	23.3	43,314.70	0	0	0	0	0	0
2	32.1	59,673.90	0	0	0	0	0	0
3	40.1	74,545.90	0	0	0	0	0	0
4	47.1	87,558.90	0	0	0	0	0	0
5	53.2	185,900	0	0	0	0	0	0
6	58.6	185,900	0	0	0	0	0	0
7	63.2	185,900	0	0	0	0	0	0
8	67.2	185,900	0	0	0	0	0	0
9	70.5	185,900	0	0	0	0	0	0
10	73.2	185,900	0	0	0	0	0	0
11	75.4	185,900	0	0	0	0	0	0
12	77.2	185,900	0	0	0	0	0	0
13	78.5	185,900	0	0	0	0	0	0
14	79.5	185,900	0	0	0	0	0	0
15	80.2	185,900	0	0	0	0	0	0
16	80.7	185,900	0	0	0	0	0	0

Standard Benefits - Contents		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Contents Value in Dollars:	\$0 Use Default: Yes	
Utilities Elevated:	No	
Expected Annual Losses due		
to Content Damages before		
Mitigation:	\$1,524.00	
Expected Annual Losses due		
to Content Damages after		
Mitigation:	\$0.00	
Expected Annual Benefits -		
Content:	\$1,524.00	

Depth Damage Curve - Contents				Acquisition @
	Before Mit	tigation Damage	After Mi	tigation Damage
Flood Depth (ft)	Percent (%)	Value (\$)	Percent (%)	Value (\$)
-2	0	0	0	0
-1	2.4	4,461.60	0	0
0	8.1	15,057.90	0	0
1	13.3	24,724.70	0	0
2	17.9	33,276.10	0	0
3	22	40,898	0	0
4	25.7	47,776.30	0	0
5	28.8	53,539.20	0	0
6	31.5	58,558.50	0	0
7	33.8	62,834.19	0	0
8	35.7	66,366.30	0	0
9	37.2	69,154.80	0	0
10	38.4	71,385.60	0	0
11	39.2	72,872.80	0	0
12	39.7	73,802.30	0	0
13	40	74,360	0	0
14	40	74,360	0	0
15	40	74,360	0	0
16	40	74,360	0	0

Standard Benefits -		
Displacement		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Lodging Per Diem:	\$96 Use Default: Yes	
Meals Per Diem:	\$55 Use Default: Yes	
Population Affected:	0	
Total Residential		
Displacement Cost:	\$0	
Expected Annual Losses due		
to Displacement Damages		
before mitigation:	\$0.00	
Expected Annual Losses due		
to Displacement Damages		
after Mitigation:	\$0.00	
Expected Annual Losses -		
Displacement:	\$0.00	

epth Damage Curve - isplacement				Acquisition @
	Before N	litigation Damage	After N	/litigation Damage
Flood Depth (ft)	Days	Value (\$)	Days	Value (\$)
-2	0	0	0	0
-1	0	0	0	0
0	0	0	0	0
1	45	0	0	0
2	90	0	0	0
3	135	0	0	0
4	180	0	0	0
5	225	0	0	0
6	270	0	0	0
7	315	0	0	0
8	360	0	0	0
9	405	0	0	0
10	450	0	0	0
11	495	0	0	0
12	540	0	0	0
13	585	0	0	0
14	630	0	0	0
15	675	0	0	0
16	720	0	0	0

Additional Benefits - Street Maintenance		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
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:	\$0.00	

Standard Benefits - Volunteer Costs		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Number of Volunteers (volunteers/event):	0	
Number of Days of Lodging:	0	
Expected Annual Volunteer		
Benefits:	\$0	

Standard Benefits - Ecosystem		
Services		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Total Project Area (acres):	0	
Percentage of Green Open		
Space:	0.00%	
Percentage of Riparian:	0.00%	
Percentage of Wetlands:	0.00%	
Percentage of Forests:	0.00%	
Percentage of Marine Estuary:	0.00%	
Expected Annual Ecosystem		
Services Benefits:	\$0	

Benefits-Costs Summary		Acquisition @ 205 Highland Ave, Lumberton, North Carolina, 28358
Total Standard Mitigation		
Benefits:	\$49,123	
Total Social Benefits:	\$0	
Total Mitigation Project		
Benefits:	\$49,123	
Total Mitigation Project Cost:	\$0	
Benefit Cost Ratio - Standard:	0	
Benefit Cost Ratio - Standard		
+ Social:	0	