

9.14 Town of Halfmoon

This section presents the jurisdictional annex for the Town of Halfmoon. The town provided the following updates that were incorporated into this annex:

- Jurisdictional Annex Update Form (Contact Information, Profile, and Capability Assessment)
- Hazard Event History
- Hazard Ranking
- NYS Mitigation Action Worksheets

9.14.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
John Cooper, Jr., Fire/Code Enforcement Officer – Emergency Services Coordinator Halfmoon Town Hall; 2 Halfmoon Town Plaza; Halfmoon, New York 12065 (518) 371 – 7410, ex. 2260 jcooper@townofhalfmoon.org	Kevin J. Tollisen, Town Supervisor Halfmoon Town Hall; 2 Halfmoon Town Plaza; Halfmoon, New York 12065 (518) 371 – 7410, ex. 2200 ktollisen@townofhalfmoon.org

9.14.2 Town Profile

Population

23,219 (American Community Survey 5-Year 2016 Estimates)

Location

The Town of Halfmoon is located in the southeastern corner of Saratoga County. It is bounded on the north by Malta and Stillwater, on the east by the east bounds of the County, on the south by Waterford and the south line of the county, and on the west by Clifton Park. The southern town line, delineated by the Mohawk River, is the border of Albany County. The eastern town line, at the Hudson River, is the border of Rensselaer County. The northern town line is marked by Anthony Kill, a tributary of the Hudson River.

Interstate 87, known as the Adirondack Northway, is a multilane north-south expressway along the western edge of Halfmoon. US Route 9 parallels I-87 farther to the east and is wholly located in the Town of Halfmoon south of Route 146. Route 9 moves between Halfmoon and Clifton Park north of Route 146. New York State Route 4 is a north-south highway in the eastern part of the town, paralleling the Hudson River. New York State Route 236 is a short state highway linking NY-146 to US-9.

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The Erie Canal passes through the western half of the southern part of the town, running nearly parallel to the Mohawk River. The Champlain canal traverses the eastern part of the town from north to south near Hudson River Road.

According to the U.S. Census Bureau, the town has a total area of 33.7 square miles, with 32.6 square- miles of land and 1.0 square-mile (three percent) of waterways.

Climate

Saratoga County, with all its municipalities, generally experiences seasonable weather patterns characteristic of the northeastern U.S. Warm summers are typically experienced, with occasional high temperatures and humidity. Midsummer temperatures typically range from 60°F to 83°F (Fahrenheit). The winters of Saratoga County are long and cold, with temperatures typically ranging from 12°F to 30°F (Fahrenheit). During the winter, temperatures are cooler than the temperatures in areas located near large bodies of water. Snow accumulates to an average depth of 68.7 inches each year.

Brief History

The earliest settlements occurred around 1680 by the Mohawk River. The town was formed while still part of Albany County in 1788. The name was briefly changed to "Orange" when the Town of Waterford was created in 1816 from part of Halfmoon, but the current name was restored in 1820. In 1828, the western portion of the town was used to create the Town of Clifton Park. In 1859, the community of Mechanicville set itself off from the town by incorporating as a village and became a city in 1910.

Governing Body Format

The Town Board is the principal governing body of the Town and is comprised of five (5) Town Council Members, one of which is the Town Supervisor.

Growth/Development Trends

Since the 2010 plan, the most intensive levels of development have been in the southwest and northern half of town. Residential development has predominated the types of construction in the following areas: west of Dunsbach and Woodin roads near the Clifton Park boundary; Route 236 and Harris Road corridors between Route 146 and Guideboard Road; Upper Newtown Road; areas north of Route 146 to the Stillwater boundary (Cemetery Road, Werner Road, Farm to Market Road, and Johnson Road corridors). Residential development pressure is expected to continue during the next decade, particularly north of Route 146 and in the Route 146/Route 236/Upper Newton Road area. Infill commercial development is expected along Route 9, along with larger scale light industrial and commercial development along the northern portion of Route 9 Liebich Lane, the Route 146 corridor and Hudson River Road.

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Table 9.14-1 Residential Development in Progress (Approved and/or Under Construction) in Town of Charlton (Prepared: October 15, 2018)

Development	Approval Date	Location	Housing Type	School District	Fire District	Status (approx.)	Anticipated Completion
Adam's Pointe PDD	7/10/06	McBride/Johnson Rd	20 SF	Mechanicville	Hillcrest	17 C.O.s	<1 year
Alexandria (fmr. Princeton Heights)	6/22/15	Princeton Ave. (near Machester Dr, Dunsbach Road & Woodin Road)	51 SF	Shenendehowa	Clifton Park - Halfmoon	7 C.O.s	<5 years
Anna's Place	9/23/13	Werner Road	27 SF	Shenendehowa	Clifton Park - Halfmoon	23 C.O.s	<1 year
Brookwood Farms Phases I	9/25/17	Brookwood & Devitt Roads	7 SF	Shenendehowa	Halfmoon - Waterford	Approved; under construction	<5 years
Mott Orchard	12/31/13	Farm to Market Road	Mechanicville	SF detached	Not provided	Referred by Planning Board to Town Engineer 2/10/2014	Not provided
Paar Estates PDD	8/19/14	Farm to Market Road	Mechanicville	Twin homes	Not provided	Referred by Planning Board to Town Engineer 10/14/2014	Not provided
Dutch Lane Estates (fmr. Van Wert/ Angle Lane)	8/14/17	Ridgewood Drive & Angle Lane	21 SF	Shenendehowa	Clifton Park - Halfmoon	Infrastructure construction started Summer 2018; No COs	<5 years
Fairway Meadows Phase III	1/14/13	Johnson Road	64 SF	Mechanicville	Hillcrest	36 C.Os.	<5 years
Glen Meadows PDD	6/25/12	Upper Newtown Rd	129 SF (Geared towards Seniors)	Mechanicville	Halfmoon - Waterford	80 C.O.s	<5 years

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Development	Approval Date	Location	Housing Type	School District	Fire District	Status (approx.)	Anticipated Completion
Halfmoon Village PDD	2/13/17	Beach Road	244 Apts.	Shenendehowa	West Crescent	N/A; Awaiting final site plans for signature; no construction begun	<5 years
Howland Park PDD	5/13/13	Johnson Road	96 SF	Shenendehowa = 70 Mechanicville = 26	Hillcrest	40 C.O.s (29 in Shen District))	<3 years
Kensington - Phase II	10/10/17	Stone Quarry Road	60 Apts.	Shenendehowa	West Crescent	Approved; under construction	<3 years
Linden Woods A & B	9/12/16	Dunsbach Road	87 SF	Shenedehowa	West Crescent	15 C.O.s	<5 years
Mike Abele (Caranfa) Subdivision	5/24/04	Boyack Rd	6 SF	Shenendehowa	West Crescent	1 C.O.; owner re-started	<3 years
Orchard Pointe (fmr. Plant Road Estates)	3/27/07	Plant Road	150 (110 townhomes, 40 condominiums reserved for age 55 and older)	Shenendehowa	Clifton Park - Halfmoon	30 units C.O.'d	<10 years
Paar Estates Residential PDD	N/A (Preliminary Approval granted 5/9/16; Final approval expected Fall 2016)	Farm to Market Road (near Rt. 146 intersection)	130 (in 65 twin-home buildings; geared towards Seniors)	Mechanicville	Hillcrest	Under Construction; no C.O.s	<10 years
Swatling Falls PDD	1/9/12	Upper Newtown Rd.	81 SF	Shenendehowa	Halfmoon - Waterford	81 C.O.s	<3 years
Victor's Farm	11/12/13	Farm to Market Road	13 SF	Shenendehowa	Clifton Park - Halfmoon	11 C.O.s	<3 years

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Development	Approval Date	Location	Housing Type	School District	Fire District	Status (approx.)	Anticipated Completion
Windsor Woods	8/13/12	Vosburgh Rd	28 (22 SF & 3 duplex)	Shenedehowa	Clifton Park - Halfmoon	23 C.O.s	<3 years

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Table 9.14-2 Pending (Under Review) Residential Development in Progress in Town of Halfmoon (Prepared: October 15, 2018)

Development	Submittal Date	Location	Housing Type	School District	Fire District	Status
Ballard - Vosburgh Road	3/13/17	Vosburgh Road	9 SF	Shenendehowa	Clifton Park - Halfmoon	Under Subdivision Review by Planning Board; awaiting response to Town engineer's review from applicant
Bayberry Subdivision	11/13/17	Bayberry Drive	5 SF	Shenendehowa	Clifton Park-Halfmoon	Under Subdivision review by Planning Board; on hold per applicant
Betts Farm PDD	9/1/11	Betts Lane & Hayner Road (off Rt. 236)	201 SF mixed (attached & detached)	Shenendehowa	Clifton Park - Halfmoon	PDD approved by Town Board July 2018; needs to begin Subdivision Review by Planning Board
Brookwood Farms Phases II	3/28/16	Brookwood & Devitt Roads	16 SF	Shenendehowa	Halfmoon - Waterford	Conceptual Subdivision Review by Planning Board; awaiting applicant submittal of detailed plans
Creekview Estates	12/31/14	Upper Newtown Road	61 SF	Shenendehowa	Halfmoon - Waterford	PDD approved by Town Board February 2018; needs to begin Subdivision Review by Planning Board
Mott Orchard	8/16/16	Farm to Market Road	91 SF	Mechanicville	Hillcrest	PDD approved by Town Board October 2018; under Subdivision Review by Planning Board

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Development	Submittal Date	Location	Housing Type	School District	Fire District	Status
Pinebrook Hills PDD	2/15/17	Farm to Market Road	66 SF	Shenendehowa	Clifton Park - Halfmoon	Granted Preliminary Subdivision Approval by Planning Board; Final Approval expected late 2018
Regency Park PDD	2/5/13	Route 9	94 units (51 senior SF & 42 apartments)	Shenendehowa	Clifton Park-Halfmoon	Under PDD review by Planning Board; on hold per applicant
Stephenson Ridge	3/23/2012	Upper Newtown Road	156 SF	Mechanicville	Hillcrest	Under Subdivision review by Planning Board; on hold per applicant
Woodloch	2/11/14	Cemetery Road	7 SF	Shenendehowa	Clifton Park	Under Subdivision review by Planning Board; on hold per applicant

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Table 9.14-3 Commercial Development in Progress (Approved and/or Under Construction) in Town of Charlton (Prepared: October 15, 2018)

Development	Approval Date	Location	Type of Action	Building Size	School District	Fire District	Status
Adirondack Basement Systems	7/28/14	Jones (off Crescent Vischer Ferry)	Addition to Site Plan	570 SF addition to existing 1547 SF bldg.	Shen	West Crescent	Approved; no building permit
207 Route 146 Professional Office	2/26/18	207 Route 146	Professional office	6,000 SF; two story	Shenendehowa	Clifton Park - Halfmoon	Approved; No building permit
413 Rt. 146 Office Building	2/26/18	413 Route 146	Professional office	15,000 SF, two story	Shenendehowa	Clifton Park - Halfmoon	Approved; No building permit
421 Flex Park	7/23/18	415 - 421 Route 146	Light industrial, commercial, warehouse "flex" space	106,300 SF	Shenendehowa	Clifton Park - Halfmoon	15,000 SF constructed; 70,000 SF & 10,500 Sf approved, no building permit.
Church of Christ	5/29/18	141 Pruyn Hill Road	Religious	7,000 SF church	Mechanicville	Hillcrest	Approved; Phase I under construction
Coffee Shop & Restaurant	9/12/16	1589 Rt. 9	5,500 SF restaurant; 1,925 coffee shop	5,500 SF restaurant; 1,925 coffee shop	Shenedehowa	Clifton Park - Halfmoon	Site Plan approved; Not constructed
Effie's Boutique	7/24/17	1 Birchwood Drive	Retail (clothing boutique)	1,768 SF	Shenendehowa	Halfmoon - Waterford	C.O.. pending
Ellsworth Solar I & II	7/10/17	100 Pruyn Hill Road	Two, 2mW solar arrays	N/A	Mechanicville	Hillcrest	Site Plan approved; not constructed
First New York Federal Credit Union	8/27/18	1533 Route 9	Bank w/ drive-thru	2,200 SF	Shenendehowa	Halfmoon - Waterford	Approved; No building permit
Garden Time Phases I & II Expansion	6/8/15	1467 Route 9	Phase I = Expand to 71 display units for sale Phase II = Expand to 95 display units for sale	55 display units for sale	Shenendehowa	Halfmoon - Waterford	Phase I expansion completed 2018; Phase II not completed to-date

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Development	Approval Date	Location	Type of Action	Building Size	School District	Fire District	Status
Grace Fellowship Church Expansion	5/22/17	1 Enterprise Avenue/ Route 146	classroom, office, storage, etc.	8,315 SF	Shenendehowa	Clifton Park - Halfmoon	C.O. pending
Graybar Electrical	9/25/17	2 Werner Road	Electrical supply company	70,126 SF (two phases)	Shenendehowa	Clifton Park - Halfmoon	Approved; Under construction
Halfmoon Health Care Campus	PDD Enacted: Site Plan approval for 1st building 1/13/14	Rt. 146	PDD allows various medical-related office, assisted living, medical care services	104,850 SF approved for Crestmoore at Halfmoon Assisted Living facility; additional SF proposed, not approved	Shenendehowa	Clifton Park - Halfmoon	104,850 SF assisted living facility approved (133 beds) - not constructed
Halfmoon Self Storage Center	9/24/18	Route 146/ Farm to Market Road	Warehouse, storage & self-storage	102,000 SF	Shenendehowa	Hillcrest	Phase I approved (17,600 SF self-storage in two buildings; 18,000 SF warehouse/ flex space in three buildings)
Involotska Wholesale Bakery	9/10/18	10 Route 236	Bakery/residence	838 Sf addition to 1500 SF building	Shenendehowa	Halfmoon - Waterford	Approved; No building permit
Kohler Industrial Design Storage Buildings Empire Exhibits & Displays	9/24/18	131 Round Lake Avenues	Storage	5,000 SF storage building and outside storage area	Mechanicville	Hillcrest	Approved; No building permit
Lawrence Circle Redevelopment	11/11/16	Lawrence Circle/Rt. 146/ Old Rt. 146	Retail/Commercial/Office	60,250 SF; 5 buildings	Shenendehowa	Clifton Park - Halfmoon	Applicant since acquired additional property; expected development in excess of 100,000+ SF

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Development	Approval Date	Location	Type of Action	Building Size	School District	Fire District	Status
Lissmac	9/24/18	Route 146	Industrial polishing	31,290 SF (two phases)	Mechanicville	Hillcrest	Phase I before Planning Board for Site Plan Review
Lot D/ Rexford Group Associates	3/27/17	5 Rexford Way	Commercial building/office/warehouse	20,100 SF (2 phases w/10,050 SF each)	Shenendehowa	West Crescent	Phase I (10,050 SF) complete; Phase II not constructed
Lussier Auto Body	5/22/17	1385 Crescent Vischer Ferry Road	Automobile repair garage & office	5,600 SF; two-story	Shenendehowa	Halfmoon-Waterford	Under construction
Maple Leaf Child Care	1/22/18	41 Werner Road	Child Care	15,709 SF	Shenendehowa	Clifton Park - Halfmoon	Under construction
Nordic Property Services	11/13/18	79 Ushers Road	Landscaping supply storage	3,840 SF	Shenendehowa	Hillcrest	Under construction
Paris Companies	3/27/17	556 Hudson River Road	Office & garage	6,600 SF total; two buildings	Waterford - Halfmoon	Halfmoon - Waterford	Approved; Not constructed
Valero Gas Station	2/26/18	1493 Route 9	Existing/Abandoned gas station renovation	N/A	Shenendehowa	Halfmoon - Waterford	Under construction/renovation
Rt. 9 Self Storage	5/29/18	1751 Route 9 (rear)	Self-Storage	54,600 SF; two buildings	Shenendehowa	Clifton Park - Halfmoon	Approved; No building permit
Secure It Self Storage	2/26/18	443/ 445 Route 146	Self-Storage (non-climate controlled) & Office	97,388 SF; 18 buildings	Shenendehowa	Clifton Park - Halfmoon	Approved; Under construction
St. Luke's Episcopal Church Expansion	46/11/2018	40 McBride Road	Religious	1,368 SF expansion of chapel/assembly hall	Mechanicville	Hillcrest	Approved; no building permit
College of Nanoscale Science & Engineering	8/25/14	5 Corporate Drive. (off Rt. 9)	Addition to Site Plan	2300 SF mock roof/solar panel structure installed in parking lot	Shen	Clifton Park	Approved; no building permit

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Development	Approval Date	Location	Type of Action	Building Size	School District	Fire District	Status
Clifton Park Landscape	5/28/13	1537 Rt. 9 (Lindsay's Country Store)	Addition to Site Plan	various site improvements/renovations	Shen.	Clifton Park	Approved; no building permit
Grosky Commercial Site Plan	10/14/2008; renewed 11/23/09; expired 10/14/10	436-438 Rt 146	Commercial Site Plan	15,800 SF	Shen.	Clifton Park	Approval expired
Halfmoon Heights Mobile Home Park	8/11/14	60 Cemetery Road	Addition to Site Plan	2400 SF new maintenance bldg.	Shen.	Clifton Park	Under construction
Lands of Jerry Paris	6/26/2006; expired 6/26/07	Routes 4 & 32	Commercial Site Plan	9,480 SF	Waterford/HM	Halfmoon	Approval expired
ValuSpace Personal Storage	7/23/18	1607 Route 9	Self-storage (climate & non-climate controlled) & office	111235 SF; six buildings	Shenendehowa	Clifton Park - Halfmoon	Approved; Under construction
Precision Periodontics	8/25/14	1426 Crescent Vischer Ferry Road	Addition to Site Plan	1200 SF parking lot expansion (add 5 spaces)	Shen.	West Crescent	Approved/constructed
Provident Development	6/12/2006; renewed 3/14/11; expired 3/8/12	Rt 9	Commercial Site Plan	5700 SF	Shen.	Clifton Park	Plans signed/stamped; Approval expired
Skyview Landscapes Inc.	1/14/13	466 Hudson River Road	Commercial Site Plan	3,840 SF	Waterford/HM	Halfmoon	Plans signed/stamped
Stewart's Shop	11/25/13	1859 Rt 9	Amendment to Site Plan	freezer pad	Shen.	Clifton Park	Plans signed/stamped
Trustco Bank (Dollar Plaza/Salty's)	10/28/13	215 Guideboard Road	Amendment to Site Plan	Drive-Thru installation	Shen.	Halfmoon	Plans signed/stamped

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Development	Approval Date	Location	Type of Action	Building Size	School District	Fire District	Status
Ushers Road Properties	7/28/14	60 Ushers Road	Amendment to Site Plan	Outside Storage	Shen.	Hillcrest	Plans signed/stamped
Valero	7/28/14	1493 Rt. 9	Change of Tenant (vacant gas station)	gas station	Shen.	Halfmoon-Waterford	Approved; no building permit

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Table 9.14-4 Pending (Under Review) Commercial in Town of Halfmoon (Prepared: October 15, 2018)

Development	Submittal Date	Location	Type of Action	Building Size	School District	Fire District	Status
Adirondack Basement Systems	7/28/14	Jones (off Crescent Vischer Ferry)	Addition to Site Plan	570 SF addition to existing 1547 SF bldg.	Shen	West Crescent	Approved; no building permit
Adirondack Basement Systems	6/7/17	155 Stone Quarry Road	Office & Storage	4,480 SF Office; 11,20 SF Storage bldg.	Shenendehowa	Halfmoon - Waterford	Under Site Plan Review by Planning Board
Harris Road Community Solar Farm	10/4/17	51 Harris Road	Community solar energy generation	8,379 photovoltaic panels	Shenendehowa	Halfmoon - Waterford	Under Site Plan Review by the Planning Board; on hold per applicant pending NYS approvals
Lawrence Circle Redevelopment	11/11/16	Lawrence Circle/Rt. 146/ Old Rt. 146	Retail/Commercial/Office	60,250 SF; 5 buildings	Shenendehowa	Clifton Park - Halfmoon	Applicant since acquired additional property; expected development in excess of 100,000+ SF
Lissmac	9/24/18	Route 146	Industrial polishing	31,290 SF (two phases)	Mechanicville	Hillcrest	Phase I under Site Plan Review by the Planning Board
Halfmoon Heights Mobile Home Park	8/11/14	60 Cemetery Road	Addition to Site Plan	2400 SF new maintenance bldg.	Shen.	Clifton Park	Under construction
Lands of Jerry Paris	6/26/2006; expired 6/26/07	Routes 4 & 32	Commercial Site Plan	9,480 SF	Waterford/HM	Halfmoon	Approval expired
Monolith Community Solar Farm	7/9/18	Hudson River Road	Community solar energy generation	400 KW	Mechanicville	Hillcrest	Under Site Plan Review by the Planning Board

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Development	Submittal Date	Location	Type of Action	Building Size	School District	Fire District	Status
Power's Irish Pub/ Giffy's BBQ Expansion	7/9/18	130 Meyer Road	Barn expansion & deck for small events/catering	1,566 SF addition	Shenendehowa	Clifton Park - Halfmoon	Under Site Plan Review by Planning Board
Precision Periodontics	8/25/14	1426 Crescent Vischer Ferry Road	Addition to Site Plan	1200 SF parking lot expansion (add 5 spaces)	Shen.	West Crescent	Approved/constructed
Provident Development	6/12/2006; renewed 3/14/11; expired 3/8/12	Rt 9	Commercial Site Plan	5700 SF	Shen.	Clifton Park	Plans signed/stamped; Approval expired
Regency Park PDD	2/5/13	Rt. 9	Mixed use (residential, commercial, light - industrial)	75,000 SF mixed-use commercial/residential	Shenendehowa	Clifton Park - Halfmoon	Before Planning Board for a PDD Recommendation; on hold per applicant
Tabor Road Flex & Truck Terminal Park	1/17/17	Tabor Road	Light Industrial - Commercial/ Warehouse "Flex" Building	46,500 SF; five buildings	Shenendehowa	Clifton Park - Halfmoon	PDD approved 11/1/2017; Site Plan under review by Planning Board
Skyview Landscapes Inc.	1/14/13	466 Hudson River Road	Commercial Site Plan	3,840 SF	Waterford/HM	Halfmoon	Plans signed/stamped
Stewart's Shop	11/25/13	1859 Rt 9	Amendment to Site Plan	freezer pad	Shen.	Clifton Park	Plans signed/stamped
Trustco Bank (Dollar Plaza/Salty's)	10/28/13	215 Guideboard Road	Amendment to Site Plan	Drive-Thru installation	Shen.	Halfmoon	Plans signed/stamped
Ushers Road Properties	7/28/14	60 Ushers Road	Amendment to Site Plan	Outside Storage	Shen.	Hillcrest	Plans signed/stamped
Valero	7/28/14	1493 Rt. 9	Change of Tenant (vacant gas station)	gas station	Shen.	Halfmoon-Waterford	Approved; no building permit

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9.14.3 Town-Specific Hazard Information

Detailed hazard event histories can be found in the Previous Occurrences and Losses sections of each hazard profile in Section 5. The information summarized in Table 9.14-5 is unique hazard occurrences reported within the Town of Halfmoon in the last 10 years. Table 9.14-6 summarizes the Town of Halfmoon’s ranking of the hazards based on probability of occurrence and impacts to the town. The most notable difference between the Town of Halfmoon and the County is that severe winter weather is the Town’s highest risk hazard, whereas the County ranked it a moderate hazard. The Town of Halfmoon also ranked ground failure low, whereas the County ranked this hazard moderate.

Table 9.14-5 Hazard Event History for the Town of Halfmoon

Hazard	Previous Events (Last 10 Years)
Extreme Temperatures (Heat and Cold)	2
Drought	Ongoing
Earthquake	Yes (minor events)
Flood	Yes (Seasonal); Minor Ice Jams
Ground Failure (Landslide, land Subsidence)	N/A
Infectious Disease	Seasonal Flu
Severe Winter Weather (Ice storm, nor’easters, heavy snow, blizzards, freezing rain/sleet)	2-3 major storms annually
Severe Storm (Hurricane, windstorm, thunderstorm, lightning, tornados, hail, microbursts)	Annual summer storms
Wildfire	N/A

Table 9.14-6 Town of Halfmoon Hazard Ranking

Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score ^a	Hazard Ranking ^b	County Hazard Ranking ^b
7	Drought	Infrequent	16	Low	Low
6	Earthquake	Rare	17	Medium	Low
4	Extreme Temperature	Regular	27	Medium	High
3	Flood (riverine, flash, coastal and urban flooding)	Frequent	44	High	High
8	Ground Failure	Rare	6	Low	Medium
5	Invasive Species	Rare	24	Medium	Medium
1	Severe Storm (windstorms, thunderstorms, hail, lightning and tornados)	Infrequent	48	High	High
1	Severe Winter Storm (heavy snow, blizzards, ice storms)	Infrequent	48	High	Medium

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Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score ^a	Hazard Ranking ^b	County Hazard Ranking ^b
8	Wildfire	Rare	6	Low	Low

a. Risk ranking score = Probability x Impact

b. High = Total hazard priority risk ranking score of 31 and above; Medium = Total hazard priority risk ranking of 16-30; and Low = Total hazard risk ranking below 15

9.14.4 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Legal and regulatory capability;
- Administrative and technical capability;
- Fiscal capability; and,
- Community classification.

Legal and Regulatory Capability

Table 9.14-7 Legal and Regulatory Capability of the Town of Halfmoon

Regulatory Tools (Codes, Ordinances, Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
1) Building Code	Y	N	Y	N	NYS Uniform Fire Prevention and Building Code & NYS Energy Code
2) Zoning Ordinance	Y	N	N	N	Code of the Town of Halfmoon Ch. 165: Local Laws Relating to Zoning, Adopted 5/16/1995
3) Subdivision Ordinance	Y	N	N	N	Code of the Town of Halfmoon Ch. 143: Subdivision of Land Adopted 9/16/1988
4) NFIP Flood Damage Prevention Ordinance(if you are in the NFIP, you must have this.)	Y	Y	Y	Y	Code of the Town of Halfmoon Ch. 83: Flood Damage Prevention Adopted 5/16/1995
5) Growth Management	N	N	N	N	Not provided
6) Floodplain Management / Basin Plan	N	Y	Y	N	Not provided

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Regulatory Tools (Codes, Ordinances, Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
7) Stormwater Management Plan/Ordinance	Y	N	Y	Y	Code of the Town of Halfmoon Ch. 140: Stormwater Management Adopted 11/20/2007
8) Comprehensive Plan / Master Plan/ General Plan	Y	N	N	N	Town of Halfmoon Comprehensive Plan 2003
9) Capital Improvements Plan	N	N	N	N	Not provided
10) Site Plan Review Requirements	Y	Y	Y	N	Code of the Town of Halfmoon Ch. 165 Article VI: Site Plan Review, Adopted 5/16/1995
11) Open Space Plan	Y	N	N	N	Draft Natural Resource and Open Space Conservation Plan, Draft Version: May 2007
12) Economic Development Plan	N	N	N	N	Not provided
13) Emergency Response Plan	Y	N	Y	Y	Updated annually (9/19/2018 latest update)
14) Post Disaster Recovery Plan	N	N	N	N	Not provided
15) Post Disaster Recovery Ordinance	N	N	N	N	Not provided
16) Real Estate Disclosure req.	N	N	N	N	Not provided
17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	Y	N	N	N	North Halfmoon Final Generic Environmental Impact Statement, July 2001

Administrative and Technical Capability

Table 9.14-8 Administrative and Technical Capability of the Town of Halfmoon

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Building, Planning, & Development Coordinator & Planner/Stormwater Management Officer

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Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	N	Town-Designated Engineer (private firm)
3) Planners or engineers with an understanding of natural hazards	Y	Building, Planning, & Development Coordinator & Planner/Stormwater Management Officer
4) Floodplain Administrator	Y	Planner/Storm Water Management Officer
5) Surveyor(s)	N	Town-Designated Engineer (private firm)
6) Personnel skilled or trained in "GIS" applications	Y	Building, Planning, & Development Coordinator & Planner/Stormwater Management Officer
7) Scientist familiar with natural hazards in the Town of Halfmoon.	N	Not provided
8) Emergency Manager	Y	Emergency Services Coordinator
9) Grant Writer(s)	Y	Grants Department/Grant Coordinator
10) Staff with expertise or training in benefit/cost analysis	N	Town Comptroller

Fiscal Capability

Table 9.14-9 Fiscal Capability of the Town of Halfmoon

Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
1) Community development Block Grants (CDBG)	Yes
2) Capital Improvements Project Funding	Yes
3) Authority to Levy Taxes for specific purposes	Yes
4) User fees for water, sewer, gas or electric service	Yes
5) Impact Fees for homebuyers or developers of new development/homes	Yes
6) Incur debt through general obligation bonds	Yes
7) Incur debt through special tax bonds	Yes
8) Incur debt through private activity bonds	No
9) Withhold public expenditures in hazard-prone areas	Yes
10) State sponsored grant programs such as FCAAP	Yes
11) Other	Not provided

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Community Classifications

Table 9.14-10 Community Classifications of the Town of Halfmoon

Program	Classification	Date Classified
Community Rating System (CRS)	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	NP	N/A
Public Protection	NP	N/A
Storm Ready	NP	N/A
Firewise	NP	N/A

N/A = Not applicable. NP = Not participating. - = Unavailable.

The classifications listed above relate to the community’s effectiveness in providing services that may impact its vulnerability to the natural hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class one being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station. Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual;
- The Building Code Effectiveness Grading Schedule;
- The ISO Mitigation online ISO’s Public Protection website at: <https://www.isomitigation.com/ppc/>;
- The National Weather Service Storm Ready website at <https://www.weather.gov/stormready/>; and,
- The National Firewise Communities website at <http://firewise.org/>.

9.14.5 Mitigation Strategy

Proposed Hazard Mitigation Initiatives

Table 9.14-11 Proposed Hazard Mitigation Initiatives of the Town of Halfmoon

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
THM-1	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	NFIP Floodplain Administrator	NYS DHSES, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Ongoing

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
THM-2	Where appropriate, support purchase, or relocation of structures located in hazard- prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost- effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on available funding.	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	NFIP Floodplain Administrator	NYS DHSES, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Ongoing
THM-3	Consider participation in incentive-based programs such as CRS.	New & Existing	Flood	1, 2, 5	1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2	NFIP Floodplain Administrator	NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Ongoing
THM-4	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New & Existing	All Hazards	All	All	NFIP Floodplain Administrator	County (through Mitigation Planning Coordinator), NYS DHSES	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Ongoing
THM-5	Strive to maintain compliance with, and good- standing in the National Flood Insurance program.	New & Existing	Flood	1, 2, 4	1-1, 1-2, 1-3, 1-8, 2-2, 2-3, 2-4, 4-1, 4-2, 4-3, 4-4	NFIP Floodplain Administrator	NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Short Term

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Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
THM-6	Continue to develop, enhance, and implement existing emergency plans.	New & Existing	All Hazards	1, 3	1-1, 1-7, 3-2, 3-4, 3-5	Office of Emergency Management with support from County OEM and NYS DHSES	County Emergency Management, NYS DHSES	Low - Medium	Local Budget	Short Term/On going
THM-7	Create/enhance/ maintain mutual aid agreements with neighboring communities.	New & Existing	All Hazards	3, 5	3-4, 5-1, 5-3	Office of Emergency Management, DPW and Roads	Surrounding municipalities and County	Low - Medium	Local Budget	Short Term
THM-8	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	All	All	Applicable Departments	County and Regional agencies (as appropriate for initiative)	Low - High	Existing programs and grant funding where applicable	Short Term
THM-9	Support the Installation/Implementation of Community Emergency Alert System	New & Existing	All Hazards	1, 3, 5	1-1, 3-1, 3-3, 3-5, 3-6, 5-1	LEMC	Watershed districts (if applicable); neighboring municipalities ; County (if applicable); NYS	Medium	FEMA HMA	Ongoing
THM-10	Provide matching funds on an ongoing basis for municipality and residential mitigation projects which will fund cost- sharing portions of projects and be replenished during the annual budget cycle	New & Existing	All Hazards	1, 2, 3, 5	1-3, 1-9, 2-5, 3-1, 5-2	Town Board		Medium	Operating budget	Short Term

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Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
THM-11	Evaluate the Town's zoning code and subdivision regulations to properly incorporate the changes/recommendations in the Comprehensive Plan	Existing	N/A	1, 4	1-6, 1-8, 4-1, 4-2, 4-4	Engineering Department		Low	Local Budget	Short Term
THM-12	River-front access/acquisition along the Erie Canal and Old Champlain Canal trail corridor	New & Existing	N/A - open space, public access	4	4-2, 4-3, 4-4, 4-5	NFIP Floodplain Administrator	Neighboring Municipalities	Medium to High	FEMA HMA Grant sources dependent on purpose of acquisition	Ongoing – Long-term depending on initiative
THM-13	Continue to require stormwater management plans as part of site plan review procedures and might consider adopting the recommendations of the North Halfmoon GEIS.	Existing	Flood, Severe Storm, Severe Winter Storm	1, 3	1-5, 1-6, 1-7, 3-1	NFIP Floodplain Administrator	NYSDEC	Medium	Local Budget	Ongoing
THM-14	Conduct periodic review of stormwater management and erosion control regulations to ensure that they are providing the maximum protection to soil and water resources.	Existing	Flood, Severe Storm, Severe Winter Storm	1, 3	1-5, 1-6, 3-1	NFIP Floodplain Administrator	NYSDEC	Low	Local Budget	Ongoing
THM-15	Bridge and culvert replacement at the following locations: Betts Lane & Riverview Road.	Existing/completed	Flood	1, 3	1-1, 1-5, 3-6	Engineering Department		Medium	FEMA HMA; Local Budget	Ongoing
THM-16	Mitigate Canal Road Flooding in area of Crescent Boat Club	Existing	Flood	1, 3	1-1, 1-8, 3-6	NFIP Floodplain Administrator		Medium	FEMA HMA Grant Sources; Local Budget	Short Term

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Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
THM-17	Mitigate Riverview and Bovack Road Flooding	Existing	Flood	1, 4	1-1, 1-8, 3-7	NFIP Floodplain Administrator		Medium	FEMA HMA Grant Sources; Local Budget	Short Term

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure?

Notes: Short term = 1 to 5 years; Long Term= 5 years or greater; OG = Ongoing program; DOF = Depending on funding; NA = Not applicable; PDM = Pre-Disaster Mitigation Grant Program.

Analysis of Mitigation Actions

This table summarizes the participant's mitigation actions by hazard of concern and the six mitigation types to illustrate that the Town has selected a comprehensive range of actions/projects.

Table 9.14-12 Analysis of Mitigation Actions of the Town of Halfmoon

Hazard of Concern	Type of Mitigation Action					
	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Drought	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8
Earthquake	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8
Extreme Temperatures	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8

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Hazard of Concern	Type of Mitigation Action					
	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Flooding (riverine, flash, coastal and urban flooding)	THM-3, THM-4, THM-5, THM-8, THM-9, THM-10, THM-13, THM-14	THM-1, THM-2, THM-3, THM-4, THM-5, THM-8	THM-1, 2, THM-3, THM-4, THM-5, THM-8	THM-4, THM-8	THM-3, THM-4, THM-6, THM-7, THM-8, THM-9,	THM-4, THM-8, THM-10, THM-15, 16, 17
Ground Failure	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8
Invasive Species	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8
Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)	THM-3, THM-4, THM-5, THM-8, THM-9, THM-10, THM-13, THM-14	THM-1, THM-2, THM-3, THM-4, THM-5, THM-8	THM-1, 2, THM-3, THM-4, THM-5, THM-8	THM-4, THM-8	THM-3, THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8, THM-15
Severe Winter Storm (heavy snow, blizzards, ice storms)	THM-4, THM-8, THM-9, THM-10, THM-13, THM-14	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8, THM-15
Wildfire	THM-4, THM-8, THM-9, THM-10	THM-4, THM-8	THM-4, THM-8	THM-4, THM-8	THM-4, THM-6, THM-7, THM-8, THM-9	THM-4, THM-8

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Hazard of Concern	Type of Mitigation Action					
	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects

Notes:

1. **Prevention:** Government, administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
2. **Property Protection:** Actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
3. **Public Education and Awareness:** Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.
4. **Natural Resource Protection:** Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. **Emergency Services:** Actions that protect people and property, during and immediately following, a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.
6. **Structural Projects:** Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.

Prioritization of Mitigation Initiatives

Table 9.14-13 Prioritization of Mitigation Initiatives of the Town of Halfmoon

Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits equal or exceed Costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can Project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
THM-1	8	H	H	Y	Y	N	M-H*
THM-2	8	H	H	Y	Y	N	M-H*
THM-3	8	M	L	Y	N	Y	H
THM-4	28	M	M	Y	N (Yes for 5-year update)	Y	H
THM-5	11	L	L	Y	N	Y	H
THM-6	5	M	L	Y	N	Y	M
THM-7	35	M	L	Y	N	Y	H
THM-8	28	H	L-M	Y	Dependent on specific initiative	Dependent on specific initiative	M-H (dependent)
THM-9	6	M	M	Y	Y	Y (local match)	M
THM-10	6	M	M	Y	N	Y	H
THM-11	5	L	L	Y	N	Y	H
THM-12	4	H	M-H	Y	Y Dependent on specific initiative	Y (local match)	H
THM-13	4	M	M	Y	N	Y	H
THM-14	3	L	L	Y	N	Y	H
THM-15	3	M	M	Y	Y	Y (local match)	H
THM-16	3	H	M	Y	Y	Y	H
THM-17	3	H	M	Y	Y	Y	H

: H = High. L = Low. M = Medium. N = No. N/A = Not applicable. Y = Yes.

*This initiative has a Medium priority based on the prioritization scheme used in this planning process (implementation based on grant funding), however it is recognized that addressing repetitive and severe repetitive loss properties is considered a high priority by Federal Emergency Management Agency (FEMA) and NYS Division of Homeland Security and Emergency Services (NYS DHSES) (as expressed in the State HMP), and thus shall be considered a High priority for all participants in the planning process.

Explanation of Priorities

- **High Priority** - A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is an on-going project and project meets eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM) programs. High priority projects can be completed in the short term (1 to 5 years).
- **Medium Priority** - A project that meets goals and objectives, benefits exceeds costs, funding has not been secured but project is grant eligible under, HMGP, PDM or other grant programs. Project can be completed in the short term, once funding is completed. Medium priority projects will become high priority projects once funding is secured.
- **Low Priority** - Any project that will mitigate the risk of a hazard, benefits do not exceed the costs or are difficult to quantify, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line for completion is considered long term (1 to 10 years). Low priority projects may be eligible other sources of grant funding from other programs. A low priority project could become a high priority project once funding is secured as long as it could be completed in the short term.

Prioritization of initiatives was based on above definitions: Yes.

Prioritization of initiatives was based on parameters other than stated above: Not Applicable.

9.14.6 National Flood Insurance Program Compliance

The Town of Halfmoon (Town) participates in the NFIP and draws on a number of capabilities to carry out program requirements. The Town maintains a number of jurisdictional ordinances that ensure all construction is appropriate for the areas considered at risk to flooding: NFIP Flood Damage Prevention Ordinance (Code of the Town of Halfmoon Ch. 83: Flood Damage Prevention Adopted 5/16/1995); a Stormwater Management Plan/Ordinance (Code of the Town of Halfmoon Ch. 140: Stormwater Management Adopted 11/20/2007); and Site Plan Review Requirements (Code of the Town of Halfmoon Ch. 165 Article VI: Site Plan Review, Adopted 5/16/1995). The Town also created the North Halfmoon Final Generic Environmental Impact Statement in July of 2001.

The Town is staffed with professionals whose expertise supports a high standard of floodplain management. In addition to employing a floodplain administrator, included on Town staff are planners and engineers with knowledge of land development and land management practices; technical staff with an understanding of natural hazards; personnel trained in GIS applications; emergency managers, and grant writers. Project review input from professionals serving in these technical positions provides guidance to property owners about how to build or rebuild in ways that minimize flood damage to persons and property.

The community also developed three mitigation actions to enhance NFIP program management. These include reviewing vulnerability of facilities in hazard prone areas and determining the appropriate course of action (e.g. retrofitting vs relocation); reviewing the

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feasibility of becoming a member of the Community Rating System; and mitigate Riverview and Bovack Road Flooding.

The Town has is also reviewing how to best address problems arising from the presence of three repetitive loss (RL) properties located in the jurisdiction, none of which are in the special flood hazard area (SFHA). The three properties are located along Beach Road that borders the Mohawk River. The Town will outreach to the owners of these affected properties and discuss with the owners the possibility of elevating or acquiring the properties. Town officials will pursue FEMA Hazard Mitigation Assistance (HMA) funding in the future should property owners express interest in these mitigation opportunities.

9.14.7 Future Needs to Better Understand Risk/Vulnerability

None at this time.

9.14.8 Additional Comments

No additional comments at this time.

9.14.9 NYS Mitigation Action Forms

See next page.

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Name of Jurisdiction: Town of Halfmoon

NYS DHSES Action Worksheet			
Project Name:	Canal Road Flooding in area of Crescent Boat Club		
Project Number:	T-Halfmoon - 16		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	Canal Road runs parallel to the Mohawk River between State Route 9 and the twin bridges of Interstate 87 (The Northway). The road frequently floods under several feet of water, thereby shutting down traffic. This affects economic activity and the roughly 40 homeowners whose properties are located on the road. Additionally, the area floods when river rises due to severe ice jamming.		
Action or Project Intended for Implementation			
Description of the Solution:	Hire a consultant to conduct a study of the flooding caused by ice jams in this area. Work with them to explore all possible options and find the best solution to mitigate this hazard.		
Is this project related to a Critical Facility?	Yes	<input type="checkbox"/>	No
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	100 year flood event	Estimated Benefits (losses avoided):	Eliminate traffic shutdown and potential for homes on this road to flood. Minimize need for emergency management to rescue those who may be trapped by floodwater.
Useful Life:			
Estimated Cost:	\$10,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	ASAP
Estimated Time Required for Project Implementation:	3 Months	Potential Funding Sources:	FEMA Hazard Mitigation Grant Program; FHA Surface Transportation Block Grant Program; US DOT Bridges Replacement and Rehabilitation; US Army Corps of Engineers Protection of Essential Highways, Highway Bridge Approaches, and Public Works General Budget
Responsible Organization:	Town of Halfmoon	Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain Management Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Continued flooding, continued peril to residents whose homes are on the road.
	Install steel shoring along roadway for areas of road that are particularly affected.	Unknown	Pros: Provides an alternative form of flood mitigation. Cons: May not provide greater level of long-term protection; would need to be evaluated against elevation costs and benefits.
	Stormwater retention infrastructure	Unknown	Pros: May provide a lower cost alternative that offers some mitigation to the effects of flooding. Cons: May not fully mitigate the effects of flooding; could still result in road damage and road closures
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

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Name of Jurisdiction: Town of Halfmoon

NYS DHSES Action Worksheet			
Project Name:	Riverview and Boyack Road Flooding		
Project Number:	T-Halfmoon – 17		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	Riverview Road runs parallel to the Mohwak River between Clamsteam Road in the Town of Halfmoon and Grooms Road in the Town of Clifton Park. Boyack Road intersects with Riverview Road just past the I-87 Northway overpass. The road frequently floods under several feet of water, thereby shutting down traffic. This affects economic activity and the roughly 2 homeowners in the Town of Halfmoon whose properties are located on the road. Additionally, the area floods when river rises due to severe ice jamming.		
Action or Project Intended for Implementation			
Description of the Solution:	Hire a consultant to conduct a study of the flooding caused by ice jams in this area. Work with them to explore all possible options and find the best solution to mitigate this hazard.		
Is this project related to a Critical Facility?	Yes	<input type="checkbox"/>	No
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	100 year flood event	Estimated Benefits (losses avoided):	Eliminate traffic shutdown and potential for homes on this road to flood. Minimize need for emergency management to rescue those who may be trapped by floodwater.
Useful Life:			
Estimated Cost:	\$10,000.00		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	ASAP
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA Pre-Disaster Mitigation Grant Program; FHA Surface Transportation Block Grant Program; US DOT Bridges Replacement and Rehabilitation; USACE Protection of Essential Highways, Highway Bridge Approaches, and Public Works General Budget
Responsible Organization:	Town of Halfmoon	Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain Management Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Continued flooding, continued peril to residents whose homes are on the road.
	Install steel shoring along roadway for areas of road that are particularly affected.	Unknown	Pros: Provides an alternative form of flood mitigation. Cons: May not provide greater level of long-term protection; would need to be evaluated against elevation costs and benefits.
	Stormwater retention infrastructure	Unknown	Pros: May provide a lower cost alternative that offers some mitigation to the effects of flooding. Cons: May not fully mitigate the effects of flooding; could still result in road damage and road closures
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			