9.5 Town of Dryden

This section presents the jurisdictional annex for the Town of Dryden. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the Town of Dryden and who in the Town participated in the planning process; an assessment of the Town of Dryden's risk and vulnerability; the different capabilities utilized in the Town; and an action plan that will be implemented to achieve a more resilient community.

9.5.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Town of Dryden's hazard mitigation plan primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact		
Name/Title: David Sprout/Code Enforcement Officer	Name/Title: Nancy Munkenbeck		
Address: 93 E. Main St, Dryden, NY 13053	Address: 832 Ringwood Road, Ithaca, NY 14850		
Phone Number: 607 844-8888 x215	Phone Number: 607 539-7902		
Email: david@dryden.ny.us	Email: nwm1@cornell.edu		
NFIP Floodplain Administrator			
Name/Title: David Sprout & Shelley Knickerbocker/Cod	e Enforcement Officers		
Address: 93 E. Main St, Dryden, NY 13053			
Phone Number: 607 844-8888			
Email: david@dryden.ny.us/sknickerbocker@dryden.ny.	us		

Table 9.5-1. Hazard Mitigation Planning Team

9.5.2 Municipal Profile

The Town of Dryden is a rural municipality encompassing 94.9 square miles in eastern Tompkins County. Dryden is bordered to the northwest by the Town of Lansing, to the southwest by the Town of Ithaca, and to the south by the Town of Caroline. Cayuga County borders to the North, and Cortland County to the East. The Town is located along New York State Route 13 which connects Elmira, Ithaca, and Cortland. Dryden is among the state's largest towns, and contains the Village of Dryden, the Village of Freeville, and the hamlet of Etna. Dryden Lake Park is a 200-acre wildlife area in the southeast of Dryden. Other state parks include the Hammond Hill State Park and Yellow Barn State Forest.



Dryden was established in 1797 as one of 28 townships created and set aside by State Legislature to be divided into 100 lots for Revolutionary War veterans as payment for their services. Due to the large white pine and hardwood forests, lumbering was a major economic activity in the Town. Agriculture began to replace lumbering as the forests were depleted. Major economic activity is concentrated in the Village of Dryden, located at the intersection of State Routes 13 and 392.

The Town of Dryden is governed by a Town Board, consisting of four Councilmembers and a Supervisor. Councilmembers are elected in alternating four-year terms, and Supervisors are elected for two-year terms. The Town Board manages the budget, oversees advisory committees, and writes and approves all local laws and resolutions.

According to the 2014-2018 American Community Survey, the Town of Dryden population is 12,311.

9.5.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction's overall risk to its hazards of concern. Table 9.5-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.5-1 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

Type of Development	2014		2015		2016		2017		2018	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)							plain/			
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family/two-family	10	0	19	0	20	0	11	0	20	0
Multi-Family	0	0	0	0	3	0	0	0	6	0
Other (commercial, mixed-use, etc.)	4	0	4	0	9	0	0	0	2	0
Total										
Property or Development Name	Type of Development		# of Un Structu		Locatio (addres block a	n ss and/or nd lot)	Known I Zone(s) ^s		Descriptic of Develo	on / Status pment
Recent N	lajor De	velopmen	t and In	frastructu	re from	2014 to P	resent			
None										
Known or Anticipated Ma	Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years									
Maifly Townhouses	Multi-F and Sir Family		47		Varna - of 366/ Roads	- Corner 'Freese	None		Approved built	l, not yet

Table 9.5-2. Recent and Expected Future Development



SFHA Special Flood Hazard Area (1% flood event) * Only location-specific hazard zones or vulnerabilities identified.

9.5.4 Capability Assessment

The Town of Dryden performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of planning, legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity for the impacts of climate change.
- Information on National Flood Insurance Program (NFIP) compliance.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the dayto-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.5.4). The Town of Dryden identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. **This is shown in bold text in the comments box where appropriate**. Appendix I provides the results of the planning/policy document review.

9.5.4.1 Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Town of Dryden and where hazard mitigation has been integrated.



1219 to 1229) Enforcement Comment: NYS Uniform and Energy Code 2020: Regulated at local and state levels. The Uniform Code (19 MYCRR Parts 1219 to 1229) now includes the 2015 editions of the code books published by the International Code Council (the "2015 I-Codes"), as amended by the publication related the 2017 Uniform Code Supplement (publication date: July 2017). Article 18 of the Executive Law (68 370 through 38) establishes the State Fire Prevention and Building Code Council, directs the Code Council to promulgate and maintain the Uniform Code, and charge seach (ity, town, and village in the State (with the exception of the City of New York) with the duty of administering and enforcing the Uniform Code within its municipal boundaries. *The building code addresses construction standards for natural hazards including wind and searthquake. Zoning Code Yes Town of Dryden Zoning Law, LL #1- Local Planning Department, Local Appeals Zoning Code Yes Town of Dryden Zoning Law, LL #1- Local No Zoning Law, LL #1- 2015 Down of Dryden Zoning be undertaken "in accord with a well-considered plan"11 or "in accord nace with a comprehensive plan."12 No Coll officials must refer to the extensive body of case law to determine how zoning can meet the more general "comprehensive plan" No Pularing the next update of the municipal zoning code, the Town will review the HMP and determine how they can incorporate the MP into the zoning code. By doing so, it will help promote development and redevelopment and redevelopment, Local Planning Board No Stubdivision Yes Town of Dryde		Does your municipality have this? (Yes/No)	Code Citation and Date (code chapter, name , date , link)	Authority (local, Town , state, federal)	Department / Agency Responsible	State Mandated
Building Code Yes (19 NYCRR Parts 1219 to 1229) Local and State Department/Code Enforcement Yes Comment: NYS Uniform and Energy Code 2020; Regulated at local and state levels. The Uniform Code (19 NYCRR Parts 1219 to 1229) now includes the 2015 editions of the code books published by the International Code Council (the "2015 I-Codes"), as amended by the publication antitlet the 2017 Uniform Code Supplicitude induces that 2016 Council to promutigate and maintain the Uniform Code, and charges each state Fire Prevention and Building Code Council induces that 2016 Council to promutigate and maintain the Uniform Code within its municipal boundaries. "The building Code addresses construction standards for natural hazards including wind and earthquake. Zoning Code Yes Town of Dryden Zoning Load. Planning Department, Local Elanning Board./ Zoning Board No Zoning Code Yes Town of Dryden Zoning Load. Local Planning Department, Local Elanning Board./ Zoning Board No Zoning Code Yes Town of Dryden Zoning Code Local Planning Department, Local Elanning Board./ Zoning Board No Zoning Load. If the State Constitution and by the various state enabling statutes. In New York, the zoning enabling acts continue to require that zoning be undertaken "in accord with a vell-considered plan" 110 r" accord/nee with a comprehensive plan" 12 Unless the town, city or village has adopted a comprehensive plan. No Comment: Article IX, Settie was addition of to	Codes, Ordinances, & R	equirements				
includes the 2015 editions of the code books published by the International Code Council (the "2015 I-Code"), as amended by the publication entitled the 2017 Uniform Code Supplement (publication date: July 2017). Article 18 of the Executive Law (§§ 370 through 383) establishes th State Fire Prevention and Building Code Council, directs the Code Council to promulgate and maintain the Uniform Code and charges each trity, town, and village in the State (with the exception of the City of New York) with the duty of administering and enforcing the Uniform Code arthrough 383) establishes th State Fire Prevention and Building Code Council, directs the Code Council to promulgate and maintain the Uniform Code and charges each with its municipal boundaries. *The building code addresses construction standards for natural hazards including wind and earthquake . Town of Dryden Zoning Law, LL #1- Local Planning Board of Appeals Comment. Article IX, Section 2, of the State Constitution and by the various state enabling statutes. In New York, the zoning enabling acts continue to require that zoning be undertakem "in accord with a well-considered plan'11 or "in accordance with a comprehensive plan." 12 Unless the town, city or village has adopted a comprehensive plan document using the more recently-enacted statutes (described later herein) focal officials must refer to the extensive body of case law to determine how zoning can meet the more general "comprehensive plan" "equivenent." Whay be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. Regulated at local level. By doing so, it will help promote development and redevelopment patterns that are at less risk frok known hazards. Subdivision fuels updet of the municipal zoning code, the Town will review the HMP and determine how they can incorporate tof HMP into the zoning code. By doing so, it will help provede to review proceed of land into a number of lots, blocks, or sites as specified i a local ordinance, law	Building Code	Yes	(19 NYCRR Parts	Local and State	Department/Code	Yes
Zoning Code Yes Town of Dryden Zoning Law, LL #1- 2015 Local Planning Department, Local Planning Board of Appeals No Comment: Article IX, Section 2, of the State Constitution and by the various state enabling statutes. In New York, the zoning enabling acts continue to require that zoning be undertaken 'in accord with a well-considered plan''11 or 'in accordance with a comprehensive plan.'12 No Unless the town, city or village has adopted a comprehensive plan document using the more recently-enacted statutes (described later herein, local officials must refer to the extensive body of case law to determine how zoning can meet the more general "comprehensive plan" "requirement.'*May be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. Regulated at local level. During the next update of the municipal zoning code, the Town will review the HMP and determine how they can incorporate the HMP into the zoning code. By doing so, it will help promote development and redevelopment patterns that are at less risk fro known hazards. No Subdivision Yes Town of Dryden Subdivision Law LL4-2012 Local Planning Department, rLocal Planning Board No Subdivision is defined in the State enabling Statutes as: the division of any parcel of land into a number of lots, blacks, or sites as specified ia local ordinance, law or regulation, with or without streets or highways, for the purpose of sale, transfer of ownership, or development. There is not a requirement by NYS for subdivisions. Each municipality is permitted to further define subdivision for its own purposes in connect	includes the 2015 editions entitled the 2017 Uniform State Fire Prevention and city, town, and village in t within its municipal bound	s of the code books p n Code Supplement (p Building Code Cound the State (with the ex	ublished by the Internat oublication date: July 20 cil, directs the Code Cou ception of the City of Ne	ional Code Council (the ". 017) Article 18 of the Exe ncil to promulgate and m w York) with the duty of	2015 I-Codes"), as amended ecutive Law (§§ 370 through naintain the Uniform Code, a administering and enforcing	by the publication 383) establishes the nd charges each the Uniform Code
continue to require that zoning be undertaken "in accord with a well-considered plan"11 or "in accordance with a comprehensive plan."12 Unless the town, city or village has adopted a comprehensive plan document using the more recently-enacted statutes (described later herein) local officials must refer to the extensive body of case law to determine how zoning can meet the more general "comprehensive plan" requirement."May be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. Regulated at local level. "During the next update of the municipal zoning code, the Town will review the HMP and determine how they can incorporate the HMP into the zoning code. By doing so, it will help promote development and redevelopment patterns that are at less risk frok known hazards. Subdivision Regulations Yes Town of Dryden Subdivision Law LL#4-2012 Comment: Subdivision is defined in the State enabling Statutes as: the division of any parcel of land into a number of lats, blocks, or sites as specified i a local ordinance, law or regulation, with or without streets or highways, for the purpose of sale, transfer of ownership, or development. There is not a requirement by NYS for subdivisions. Each municipality is permitted to further define subdivision of law which is subject to a municipality's subdivision review procedure. The enabling statutes provide that a plat showing a division of law which is subject to a municipality's subdivision regulations, my not also be subject to review under its site plan review authority. General city law s. 3 & 3.3, Town Law s. 276 & 277, Village Law s. 7-728 & 7-730) Minor subdivisions – less than five lots- may be approved by Planning Department. "When the Town updates the subdivision regulations, they will review the HMP and consider different ways to integrate the HM into the regulation. By doing so, it helps the Town encourage new developers to design areas that avoids or minimizes hazards. Stormwater Management Yes Title 6, Ch	Zoning Code	Yes	Zoning Law, LL #1-	Local	Local Planning Board,/ Zoning Board of	No
Regulations LL#4-2012 FLocal Planning Board Comment: Subdivision is defined in the State enabling Statutes as: the division of any parcel of land into a number of lots, blocks, or sites as specified i a local ordinance, law or regulation, with or without streets or highways, for the purpose of sale, transfer of ownership, or development. There is not a requirement by NYS for subdivisions. Each municipality is permitted to further define subdivision for its own purposes in connection with its subdivision review procedure. The enabling statutes provide that a plat showing a division of land which is subject to a municipality's subdivision regulations, may not also be subject to review under its site plan review authority. (general city law s. 3, & 3, Town Law s. 276 & 277, Village Law s. 7-728 & 7-730) Minor subdivisions – less than five lots- may be approved by Planning Department. *When the Town updates the subdivision regulations, they will review the HMP and consider different ways to integrate the HM into the regulation. By doing so, it helps the Town encourage new developers to design areas that avoids or minimizes hazards. Stormwater Yes Title 6, Ch. X,17- 7,8,70 Local Planning Department Yes Comment: Codes Rules and Regulations of the State of New York, Title 6. Department of Environmental Conservation, Chapter X. Division or Water Resources, Subchapter A. General Article 3. State Pollutant Discharge Elimination System (SPDES) Permits. New York Environmental Conservation Law, Article 17, Titles 7, 8 and Article 70. New development and redevelopment projects that result in a land disturbance of one acre or greater, including projects less than one acre if they are part of a large common plan of development or sale or if controlling such	Regulated at local level.					
Management Regulations Yes Ittle 6, Ch. X, 1/- 7,8,70 Local Planning Department Yes Comment: Codes Rules and Regulations of the State of New York, Title 6. Department of Environmental Conservation, Chapter X. Division of Water Resources, Subchapter A. General Article 3. State Pollutant Discharge Elimination System, Part 750. State Pollutant Discharge Elimination System(SPDES) Permits. New York Environmental Conservation Law, Article 17, Titles 7, 8 and Article 70. New development and redevelopment projects that result in a land disturbance of one acre or greater, including projects less than one acre if they are part of a large common plan of development or sale or if controlling such activities in a particular watershed is require a permit by the Department No	Regulated at local level. *During the next update HMP into the zoning co known hazards. Subdivision	e of the municipal ode. By doing so, i	zoning code, the Town it will help promote d Town of Dryden Subdivision Law	n will review the HMP o evelopment and redeve	and determine how they c elopment patterns that ar Planning Department,	an incorporate the e at less risk fron
Post-Disaster Recovery No.	Regulated at local level. *During the next update HMP into the zoning co known hazards. Subdivision Regulations Comment: Subdivision is specified i a local ordinan- development. There is not purposes in connection wi subject to a municipality's & 33, Town Law s. 276 & Department. *When the Town update	e of the municipal and bode. By doing so, if Yes Yes defined in the State arequirement by N ith its subdivision regulation, it a requirement by N ith its subdivision regulati 277, Village Law s. 7	zoning code, the Town it will help promote d Town of Dryden Subdivision Law LL#4-2012 enabling Statutes as: the , with or without streets YS for subdivisions. Each iew procedure. The ena ions, may not also be sul 7-728 & 7-730) Minor regulations, they will	n will review the HMP of evelopment and redeve Local e division of any parcel of or highways, for the purp h municipality is permitte bling statutes provide the bject to review under its s subdivisions – less than fi review the HMP and co	and determine how they c elopment patterns that ar Planning Department, /Local Planning Board f land into a number of lots, toose of sale, transfer of owne ad to further define subdivision at a plat showing a division of ite plan review authority. (ge ive lots- may be approved by consider different ways to	an incorporate the e at less risk from No blocks, or sites as rship, or on for its own of land which is eneral city law s. 32 Planning
	Regulated at local level. *During the next update HMP into the zoning co known hazards. Subdivision Regulations Comment: Subdivision is specified i a local ordinand development. There is not purposes in connection will subject to a municipality's & 33, Town Law s. 276 & Department. *When the Town update into the regulation. By Stormwater Management Regulations Comment: Codes Rules a Water Resources, Subchap Elimination System(SPDES redevelopment projects th	e of the municipal and a second secon	zoning code, the Town it will help promote d Subdivision Law LL#4-2012 enabling Statutes as: the with or without streets YS for subdivisions. Each with or without streets YS for subdivisions. Each riew procedure. The ena ions, may not also be sul 7-728 & 7-730) Minor regulations, they will the Town encourage ne Title 6, Ch. X,17- 7,8,70 e State of New York, Titl le 3. State Pollutant Disc k Environmental Conserv sturbance of one acre of	a will review the HMP of evelopment and redeve Local e division of any parcel of or highways, for the purp h municipality is permitte bling statutes provide tha biget to review under its s subdivisions – less than fi review the HMP and co w developers to design Local e 6. Department of Envir charge Elimination System vation Law, Article 17, Titt greater, including project	and determine how they c elopment patterns that ar Planning Department, /Local Planning Board f land into a number of lots, pose of sale, transfer of owne ed to further define subdivision ite plan review authority. (ge ive lots- may be approved by consider different ways to be areas that avoids or mining Planning Department Planning Department ronmental Conservation, Chec n, Part 750. State Pollutant les 7, 8 and Article 70. New of the state state one acre if they	an incorporate the at less risk from No blocks, or sites as rship, or on for its own of land which is eneral city law s. 32 Planning integrate the HMI mizes hazards. Yes Yes Discharge development and are part of a larger

Table 9.5-3. Planning, Legal, and Regulatory Capability



	Does your municipality	Code Citation and Date	Authority		
	have this?	(code chapter,	(local, Town , state,	Department / Agency	
	(Yes/No)	name , date , link)	federal)	Responsible	State Mandated
		Property Condition			
Real Estate Disclosure	Vac	Disclosure Act, NY	State	NYS Department of	Yes
Real Estate Disclosure	Yes	Code - Article 14	State	State, Real Estate Agent	res
		§460-467			
certain disclosures under disclosure statement and opt not to complete the s Growth Management Regulation Comment: In New York .	the law or pay a cree deliver it to the buye tatement and instead Yes State, virtually all lar	dit of \$500 to the buyer of er before the buyer signs d pay the credit. Zoning Law Sections: 605, 606, 607, 703 Conservation Subdivision and use regulation, which	at closing. While the PCD the final purchase contro Local is the primarily tool for S	"caveat emptor," a home se A requires a seller to comple act, in practice, most home se Local Planning Board mart Growth, takes place at action. While State law provid	te a standardized ellers in New York No the municipal level
_	county or regional l	evel, these mechanisms o	are largely advisory, whe	reas municipal planning is di	rectly related to
land use regulation.					
*Smart Growth minimi	zes development in		1	1	1
		General City Law s.		Local Planning Board or	
Site Plan Review	Yes	27-a, Town Law s.	Local	Town Board if SUP is	No
Site Flat Review	105	247a, Village Law s.	Local	required	
		7-725a		required	
Village Law s. 7-725a)_Th * When the Town updat	e local legislative bo	dy has the power to dele	gate site plan review to t	-(General City Law s. 27-a, he planning board, zoning b id identify ways, if any, to	oard, etc.
Village Law s. 7-725a)_Th *When the Town updat into the requirements.	e local legislative bo es the site plan revi	dy has the power to dele	gate site plan review to t will review the HMP ar	he planning board, zoning b ad identify ways, if any, to	oard, etc. integrate the HMI
Village Law s. 7-725a)_Th * When the Town updat into the requirements. Environmental	e local legislative bo	dy has the power to dele iew requirements, they	gate site plan review to t	he planning board, zoning b	oard, etc.
Village Law s. 7-725a)_Th *When the Town updat into the requirements. Environmental Protection	e local legislative bo es the site plan rev i	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617	gate site plan review to t will review the HMP an State	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning	oard, etc. integrate the HMI Yes
Village Law s. 7-725a)_Th *When the Town updat into the requirements. Environmental Protection Comment: New State En	e local legislative bo es the site plan rev i	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617	gate site plan review to t will review the HMP an State	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department	oard, etc. integrate the HMI Yes
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Village Law s. 7-725a)_Th *When the Town updat into the requirements. Environmental Protection Comment: New State En *	e local legislative bo es the site plan revi Yes vironmental Quality	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title	gate site plan review to t will review the HMP an State 6 NYCRR Part 617 Regul	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu	oard, etc. integrate the HM Yes Jary 1st, 2019. Yes - BFE+2 feet
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage	e local legislative bo es the site plan rev i	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP	gate site plan review to t will review the HMP an State	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department	oard, etc. integrate the HM Yes Jary 1st, 2019. Yes - BFE+2 feet for all
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En *	e local legislative bo es the site plan revi Yes vironmental Quality	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community	gate site plan review to t will review the HMP an State 6 NYCRR Part 617 Regul	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department	oard, etc. integrate the HMI Yes Jary 1st, 2019. Yes - BFE+2 feet for all construction in
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage	e local legislative bo es the site plan revi Yes vironmental Quality	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community Risk and Resiliency	gate site plan review to t will review the HMP an State 6 NYCRR Part 617 Regul	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department	oard, etc. integrate the HMI Yes Jary 1st, 2019. Yes - BFE+2 feet for all construction in the SFHA (residential and
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage Prevention Law	e local legislative bo es the site plan revi Yes vironmental Quality Yes	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRA)	gate site plan review to t will review the HMP an State 6 NYCRR Part 617 Regul Local, State, Federal	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department (Code Enforcement)	oard, etc. integrate the HMI Yes Jary 1st, 2019. Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)
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Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage Prevention Law Comment: A community *The Town's law meets	e local legislative bo es the site plan revi Yes vironmental Quality Yes must adopt a Flood the minimum requ	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRA)	gate site plan review to t will review the HMP and State 6 NYCRR Part 617 Regul Local, State, Federal	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department (Code Enforcement)	oard, etc. integrate the HMA Yes Jary 1st, 2019. Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential) Program.
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage Prevention Law Comment: A community	e local legislative bo es the site plan revi Yes vironmental Quality Yes must adopt a Flood the minimum requ	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRA)	gate site plan review to t will review the HMP and State 6 NYCRR Part 617 Regul Local, State, Federal	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department (Code Enforcement) the National Flood Insurance	oard, etc. integrate the HM Yes uary 1st, 2019. Yes - BFE+2 fee for all construction in the SFHA (residential and non-residential) Program.
Village Law s. 7-725a) Th *When the Town updat into the requirements. Environmental Protection Comment: New State En * Flood Damage Prevention Law Comment: A community *The Town's law meets law to include any revis	e local legislative bo es the site plan revi Yes vironmental Quality Yes must adopt a Flood the minimum requ	dy has the power to dele iew requirements, they Title 6 NYCRR Part 617 Review Act (SEQR) Title Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRA) Damage Prevention Ord irements set by NYS. In	gate site plan review to t will review the HMP and State 6 NYCRR Part 617 Regul Local, State, Federal	he planning board, zoning b ad identify ways, if any, to NYDEC/ Town Planning Department ations are in effect as of Janu Planning Department (Code Enforcement) the National Flood Insurance	oard, etc. integrate the HMI Yes Jary 1st, 2019. Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential) Program.
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	Does your municipality have this? (Yes/No)	Code Citation and Date (code chapter, name , date , link)	Authority (local, Town , state, federal)	Department / Agency Responsible	State Mandated
Climate Adaptation	No	NYS Executive Law, Article 75	Local	-	Yes
Senate Bill S. 6599, dated			ling ARTICLE 75 - CLIMA	TE CHANGE under Assembly	Bill A. 8429 and
Disaster Recovery Ordinance	No	-	Local	-	No
Comment:					
Disaster Reconstruction Ordinance	No	-	Local	-	No
Comment:					
Other Applicable Codes, Ordinances, & Requirements	-	-	-	-	-
Comment:					
Planning Documents					
Comprehensive Plan	Yes	General City Law section 28a(3)(a); Town Law section 272-a(2)(a); Village Law section 7- 722(2)(a)	Local	Planning Department, <u>Town Board, and Local</u> <u>Planning Board</u>	No
and planning in the con Capital Improvement		General Municipal	Local	and encourage multi-obje	No
Plan	-	Law Section 99-g.			
Comment: A local govern Disaster Debris	nment can decide to	adopt its capital plan pu	irsuant to General Munic I	ipal Law Section 99-g.	
Management Plan	No	-	Local	-	No
Comment: Based on pass Management Plan in plac address recovery and clea Emergency Management	te are able to manag In up faster and more Plan Tool Kit. The N	e their emergency respo e efficiently than those w NYSDEC (Department) st	nse in a more comprehen vithout plans. With that is rongly urges all municipe	cipalities that have an Emer <u>c</u> nsive and coordinated manne n mind, the Department deve al officials to conduct pre-dis should be reviewed and upda	er and are able to eloped an aster planning and
Floodplain or Watershed Plan	No	-	Local	-	No
	5	nination System (SPDES)	permit program is a prir	mary way the DOW impleme	nts its watershed
protection and restoration Stormwater Plan	Yes	Stormwater Management	Local	Planning Dept.	Yes
Comment: Local Authorit when addressing stormwo	-	-	-	 red planning process that mu projects	ist be followed
Open Space Plan	Yes	NYS Constitution - Article 9; Statute of Local Governments.	Local	Conservation Board	Yes



	Does your	Code Citation and	A station and the s			
	municipality have this?	Date (code chapter,	Authority (local, Town , state,	Department / Agency		
	(Yes/No)	name , date , link)	federal)	Responsible	State Mandated	
				vhich should include an open		
	local open space plai	n is to cause the importe	ant open lands in the com	nmunity to be conserved for c	pen space uses.	
Urban Water Management Plan	No	-	Local	-	No	
Comment:						
Habitat Conservation Plan	No	-	Local	-	No	
clearing of vegetated area	ns. Identifying certain	critical habitat areas co	ould be included in the Co	certain pesticides, demolition omprehensive Plan. Critical I n eligibility for the State Wild	Habitat is a part of	
Economic Development Plan	No	-	Local	-	No	
Comment: An Economic			-	cluded or separate from the C acres and established buffer		
Shoreline Management Plan	No	Article 34, Environmental Conservation Law, Coastal Erosion Hazard Areas 6 NYCRR Part 505, Coastal Erosion Management Regulations	Local	-	Yes	
Comment: Article 34, Env 6 NYCRR Part 505, Coaste		ition Law, Coastal Erosi	on Hazard Areas			
Community Wildfire Protection Plan	No	-	Local	-	No	
	eral Farm Bill, every	10 years each state mus	t submit a State Forest Ac	ction Plan to the U.S. Forest S	ervice. The Plan	
must be approved by the must be submitted to the			or of DEC's Division of Lar	nds and Forests. The next upo	late of the Plan	
Forest Management Plan	No	-	Local	-	No	
Comment:	I		L	I		
Transportation Plan	No	-	Local	-	No	
Comment:	I		I	I		
Agriculture Plan	Yes	NYCRR Part 390 Agricultural and Farmland Protection -	Dryden Ag & Farmland Protection Plan 2018/Right to Farm Law LL#1-1992	Agricultural Advisory Committee	Yes	
Comment: Municipalities may develop agricultural and farmland protection plans, in cooperation with cooperative extension and other organizations, including local farmers.						
Other (tourism, business dev, etc.)	-	-	-	-	-	
Comment: NA						
Response/Recovery Pla	nning					
Comprehensive Emergency Management Plan	Yes	NYS Executive Law, Article 2B	Local	Local OEM	Yes	
	is developed and mai	ntained by the New Yor		lan (CEMP) is required under cy Management and agencie		



	Does your municipality have this? (Yes/No)	Code Citation and Date (code chapter, name , date , link)	Authority (local, Town , state, federal)	Department / Agency Responsible	State Mandated
•	•			that can be integrated. TI with the HMP, as necessary	
Threat & Hazard Identification & Risk Assessment (THIRA)	Yes HAZNY	Hazard Mitigation Plan, Chapter 5, Adopted 2000	Local	Local OEM	Yes
Comment: HIRA is an annual requirement that all states must complete to remain eligible to receive federal homeland security grant funding. It also involves a hazard and capability assessment but DHSES has several methodological concerns with the THIRA process and has developed CEPA to serve as the State's system to capture and analyze hazard/capability information. However, CEPA has been engineered to support the completion of the THIRA. *This informs level of risk of hazards of concern and aligns with the hazard mitigation plan.					
Post-Disaster Recovery Plan	No	-	Local	-	No
Comment:					
Continuity of Operations Plan	No	-	Local	-	No
of operations (COOP) of v	ital government func of possible threats fro	tions. Jurisdictions must om natural disasters thro	be prepared to continue bugh acts of terrorism. CO	r updating contingency plans their minimum essential fun DOP planning facilitates the p ons.	ctions
Public Health Plan	No	-	Local	-	-
Comment:			·	·	
Other: Emergency Response Plan	Yes	Town & Village of Dryden Emergency Action Plan for Virgil Creek Dam 2006	Local	Town Board	No
Comment: Nothing is mandated by law in NYS, however, article 2B of the Executive Law provides for authority to draft emergency plans by various levels of government in NYS.					
Other: Special Purpose C	ordinances (such as c	ritical or sensitive areas)		
Comment:					

Table 9.5-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes – Planning Dept. processes, then forwards development projects to Town or Planning Board.
Permits are tracked by hazard area. For example, floodplain development permits.	Yes
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	Yes. Buildout Analysis by Planning Board member David Weinstein indicated 917 vacant parcels in the Town

9.5.4.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Dryden.



Resources	Available? (Yes or No)	Department/ Agency/Position				
Administrative Capability						
Planning Board	Yes	Planning Board				
Mitigation Planning Committee	No	Safety & Disaster Preparedness Committee*				
Environmental Board/Commission	Yes	Conservation Board				
Open Space Board/Committee	Yes	Conservation Board				
Economic Development Commission/Committee	No	-				
Warning Systems / Services	Nie					
(reverse 911, outdoor warning signals)	No	-				
Maintenance programs to reduce risk	Yes	Highway/DPW				
Mutual aid agreements	Yes	Fire Departments?				
Technical/Staff	ing Capability					
Planners or engineers with knowledge of land development and land management practices	Yes*	The Town sub-contracts its engineering to TG Miller				
Engineers or professionals trained in building or infrastructure construction practices	Yes	Highway/DPW/Code Enforcement Officers				
Planners or engineers with an understanding of natural hazards	Yes*	The Town sub-contracts its engineering to TG Miller				
Staff with expertise or training in benefit/cost analysis	No					
Professionals trained in conducting damage assessments	Yes	Planning/Code Enforcement Officers				
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-				
Scientist familiar with natural hazards	No	-				
NFIP Floodplain Administrator (FPA)	Yes	Planning/Code Enforcement Officers				
Surveyor(s)	No	-				
Emergency Manager	Yes	Town Supervisor				
Grant writer(s)	Yes	-				
Resilience Officer	No	-				
Other	Yes	Safety & Disaster Preparedness Committee*				

Table 9.5-5. Administrative and Technical Capabilities

9.5.4.3 Fiscal Capability

The table below summarizes financial resources available to the Town of Dryden.

Table 9.5-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	-
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes, for PUD's only
Stormwater utility fee	No
Incur debt through general obligation bonds	-
Incur debt through special tax bonds	-



Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through private activity bonds	-
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other	-

9.5.4.4 Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Dryden.

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes. Town of Dryden Clerk
Personnel skilled or trained in website development?	No
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No* Existing Facebook page could be used for outreach
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes. Safety & Disaster Preparedness Committee
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No
Warning systems for hazard events; if yes, briefly describe.	No
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No
Other	Safety & Disaster Preparedness Committee *

Table 9.5-7. Education and Outreach Capabilities

9.5.4.5 Community Classifications

The table below summarizes classifications for community programs available to the Town of Dryden.

Table 9.5-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	4 for single & two family 4 for commercial and industrial property	9/27/16 (evaluation date)
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	-	-
NYSDEC Climate Smart Community	Yes	Bronze	2019
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other			

Note:



N/A Not applicable Not participating NP Unavailable

9.5.4.6 Adaptive Capacity

Adaptive capacity is defined as "the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences" (IPCC 2014). In other words, it describes a jurisdiction's current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction's rating.

Table 9.5-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Drought	Medium
Extreme Temperature	Medium
Flood	Medium
Harmful Algal Bloom	Medium
Invasive Species	Medium
Ground Failure	Medium
Severe Storm	Medium
Severe Winter Storm	High
Wildfire	Medium
*High Capacity exists and is in use	

Medium Capacity may exist; but is not used or could use some improvement

Capacity does not exist or could use substantial improvement Low

Not enough information is known to assign a rating Unsure

9.5.4.7 National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.

NFIP Floodplain Administrator (FPA)

David Sprout, CEO

Table 9.5-10. Floodplain Administrator Questionnaire

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	Areas along major streams and lesser streams,
Do you maintain a list of properties that have been	particularly steep slope streams.
damaged by flooding?	*no list of damaged properties
Do you maintain a list of property owners interested in flood mitigation?	None at this time



NFIP Topic	Comments
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	Updating Flood maps –STARR II
How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction?	Damage, of any origin, where the cost of structure restoration to its 'before damaged condition' is equal to or greater than 50% of pre-damage value./ None declared.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	No, the official FIRM is outdated and difficult to interpret. (Flood Damage Prevention Law allows use of better tools)
Resources	
What local department is responsible for floodplain management?	Planning Department - Code Enforcement Officers are the floodplain managers
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	Probably
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	Yes. General refresher training. Map revision & map amendment training
Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)	DOS Flood Hazard Area checklist is utilized during plan reviews, Floodplain development permits are required in SFHAs
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Cost of Improvement is equal to or greater than 50% of market value before the start of construction
What are the barriers to running an effective NFIP program in the community, if any?	No barriers
Compliance History	
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	No violations
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	CAV – 9/21/2016 (Town) CAV – 6/19/19 (Village of Dryden)
Regulatory	
What is the local law number or municipal code of your flood damage prevention ordinance?	LL #1-1987
What is the date that your flood damage prevention ordinance was last amended?	Law has never been amended
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	Meets minimum requirements



NFIP Topic	Comments
Are there other local ordinances, plans or programs (e.g. site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Subdivision regulations, Site Plan Review, Stormwater Pollution Prevention Law, the Comprehensive Plan, and development design guidelines all support floodplain management.
Community Rating System (CRS)	
Does your jurisdiction participate in CRS? If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program?	No***At one time there was participation but it was perceived to take too much time and effort for too little in return

9.5.4.8 National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Dryden.

Table 9.5-11. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties	# SRL Properties
Town of Dryden	23	9	\$93,329.29	0	0

Source: FEMA 2020

Notes: Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and current as of February 28, 2018. The total number of repetitive loss properties does not include severe repetitive loss properties

RL Repetitive Loss; SRL Severe Repetitive Loss

9.5.4.9 Additional Areas of Existing Integration

Emergency services, including firefighting and first responder services are provided by the local volunteer fire company. As residents increasingly work outside the Town, it is more difficult to recruit volunteers, even as the demand for services is increased. Significant and focused effort is required to keep these essential volunteer services sufficiently staffed, trained, and funded to provide the community the emergency response that is needed Increasing support and pride in these services will increase quality of life for all residents.

As the Town updates its comprehensive plan, it is anticipated that several projects and policies related to hazard mitigation will be able to be further advanced. Mitigation is also very integrated with other planning initiatives. For example, in 2017, the Town developed a Natural Resources Conservation Plan which among other things recommended establishing and maintain effective buffer zones or undisturbed vegetation and soils along streams and other surface waters, preserving and restoring wetlands, and promoting farm practices that increase resiliency to the effects of climate change.



9.5.4.10 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

In the event of the Virgil Creek Dam failing: northbound Rt. 38 traffic shall be detoured onto Logan's Run, Penny Lane, Ferguson Road, and Irish Settlement Road to continue westward on Rt. 13 towards Ithaca or via Routes 13 and 366 towards Cortland. Westbound NYS Rt.392 traffic will be detoured via Livermore Rd to Rt. 13 toward Cortland or via Livermore Rd. and Bahar Drive to Rt. 13, following Routes 38 and 366 through Freeville toward Ithaca. Truck traffic will be detoured around the Village (of Dryden) using State highways. Southbound trucks will detour via Routes 366 and 38, while northbound trucks will detour via Rt. 79.

However, Evacuation routes are specific to hazard event and routes will vary according to the location of the event. The Town will identify evacuation routes according to procedures outlined in the ESF16 annex of the Tompkins County 2021 CEMP.

Sheltering

Three shelter sites have been identified in the Town of Dryden Hazard Mitigation Plan. That plan included the Villages of Dryden and Freeville.

Shelter Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Dryden Middle/High School	118 Freeville Road Dryden, NY	1742/871	No (with exceptions)	Yes	Yes (some)	Nurse's suite w/basic first aid	Commercial Kitchen
Cassavant Elementary School	32 School Street, McClean, NY	120/60	Yes	Yes	No	None	None
Varna Community Center	943 Dryden Road, Ithaca, NY	25	Yes	Yes	Yes	None	None

Table 9.5-12. Shelter Locations in the Municipality



Temporary Housing

There are a few locations in the Town for temporary housing as noted in the table below.

Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Туре	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
Bethel Grove Community Center	1825 Slaterville Road	Water, electric, septic	75 (pre-Covid)	Parking lot/field	Additional Backup power
Dryden Veterans Memorial Home	2272 Dryden Rd	Water, electric, septic	100 (pre-Covid)	Parking lot/field	Additional Backup power
Ellis Hollow Community Center	111 Genung Rd	Water, electric, septic	80 (pre-Covid)	Parking lot/field	Additional Backup power

Table 9.5-13. Temporary Housing Locations in the Municipality

Permanent Housing

The Town does not have any available land for permanent housing. However, as part of the planning process, a countywide buildable land analysis was conducted and presented in Section 4 (County Profile). The Town can utilize this analysis to identify potential locations in neighboring communities.

Table 9.5-14. Permanent Housing Locations in the Municipality

Site Name	Site Address	Infrastructure / Utilities Available (water, electric, septic, etc.)	Capacity (number of sites)	Туре	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code	
There are no permanent housing locations in the Municipality.						



9.5.5 Hazard Event History Specific to the Town of Dryden

Tompkins County has a history of natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The Town of Dryden's history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of the County. Table 9.5-15 provides details regarding municipal-specific loss and damages the Town experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
August 3, 2014	Heavy Rain and Flash Flooding		Showers and thunderstorms in the area produced torrential downpours. In the County, several roadways were inundated causing approximately \$100,000 in property damage.	Town was affected by event though damages were not documented.
June 14-15, 2015	Heavy Rain and Flash Flood		A tropical-like airmass was in place allowing for a stripe of 2-4 inches of very heavy rain to fall in a narrow band extending from near Watkins Glen to areas north of Binghamton. Severe flash flooding was encountered with numerous roads and culverts destroyed by raging water. In some areas, homes, schools and other businesses were flooded. In Tompkins County, flooding caused the washout of numerous bridges in the area. The County had approximately \$1.5 million in damages from this event.	Town was affected by event though damages were not documented.
March 14- 15, 2017	Severe Winter Storm and Snowstorm (DR-4322)	Yes	Snowfall ranged between 12 and 24 inches in Tompkins County with the highest amounts in the far southeast part of the county.	Town was affected by event though damages were not documented.
July 24, 2017	Heavy Rain and Flash Flooding		Widespread thunderstorms produced three to inches of rain. This led to streams and creeks overflowing their banks and flash flooding in many areas. The County had approximately \$75,000 in property damage.	Several culverts were washed out. One basement was flooded as a direct result of the culvert failure.

Table 9.5-15. Hazard Event History



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
October 31- November 1, 2019	Severe Storms, Straight-Line Winds and Flooding (DR-4472)	Yes		Town was affected by event though damages were not documented.
EMA Federa DR Major I	ency Declaration (FEN l Emergency Manage Disaster Declaration (plicable	ment Agency		

9.5.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the Town of Dryden's risk assessment results and data used to determine the hazard ranking.

9.5.6.1 Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <u>http://tinyurl.com/6-CRR-NY-502-4</u>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent or 500-year flood event, or worst damage scenario. For those that do not meet this criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Name	Туре	Exposure 1% Event	0.2% Event	Addressed by Proposed Action
ETNA VOLUNTEER FD TRAINING BLDG	Emergency Services	Yes	Yes	Yes - 005

Table 9.5-16. Potential Flood Losses to Critical Facilities



Source: Tompkins County HAZUS 2020

9.5.6.2 Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Cattaraugus as a whole. Therefore, each Town of Dryden ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Dryden. The Town of Dryden has reviewed the Town hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town of Dryden indicated the following:

• The Town of Dryden concurs with the hazard ranking identified in the broader planning effort.

Table 9.5-17. Hazard Ranking Input

Hazard	Ranking
Disease Outbreak	Medium
Drought	High
Extreme Temperature	Medium
Flood	High
Harmful Algal Bloom	Medium
Invasive Species	Medium
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium

Note: The scale is based on the following hazard rankings as established in Section 5.3.

9.5.6.3 Identified Issues

The Town of Dryden has identified the following vulnerabilities within their community:

- Due to the significant number of agricultural operations in Dryden, drought continues to be a significant potential hazard.
- Flooding continues to also be a hazard of great concern for the Town.



Specific areas of concern based on resident response to the Town of Dryden Hazard Mitigation Citizen survey include:

- Severe Winter Storm and Drought were the hazards that most respondents experienced over the last 5 years.
- Most residents were Concerned, Somewhat Concerned or Very Concerned about Climate Change.
- No one that responded lived in the floodplain or had flood insurance.
- Every respondent owned their residence.

9.5.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

9.5.7.1 Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2014 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation o (if complete)		Next Steps Project to be included in 2021 HMP or Discontinue If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). If discontinue, explain why.
				Establish conservation corridors along stream		Cost Level of Protection	-	
DR1	-	Flash Flood	Town of Dryden	banks to encourage riparian vegetation for channel and floodplain stabilization and wildlife habitat	No progress	Damages Avoided; Evidence of Success	-	Action will be carried on to 2021 plan
				Actively inventory and		Cost	Low	
				mitigate risk associated with		Level of Protection	Medium	
DR2	-	Flash Flood	Town of Dryden	pipeline stream crossings including Six Mile Creek at German Cross Road	Complete	Damages Avoided; Evidence of Success	Less flood	Project is complete; pipeline study was done

Table 9.5-18. Status of Previous Mitigation Actions



9.5.7.2 Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Dryden has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 Plan:

• Several private streamside properties along Fall Creek in the Town of Dryden were planted with native trees and shrubs to formalize riparian buffer corridors.

9.5.7.3 Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Dryden participated in a mitigation action workshop in October 2020 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: INSERT PUBLICATIONS e.g., FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

Table 9.5-19 summarizes the comprehensive-range of specific mitigation initiatives the Town of Dryden would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.5-20 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation	CRS Category
2021-T DRYDEN- 001	Implement Best Practices for Roadside Ditch Protection for Steeply Sloped Roads, Phase One	1,3	Flooding, Severe Storm	Problem: High velocity runoff from severe rain events/rapid snow pack melt erodes roadside ditches and overwhelms culverts. Sediment laden stormwater clogs undersized culverts and contributes to flooding when ditches are overwhelmed. <u>Road ditches</u> <u>are sometimes</u> <u>built and</u> <u>maintained</u> without Best <u>Management</u> <u>Practices that</u> <u>flooding and</u> <u>sediment</u> <u>issues.</u> Solution: Work with	No	No	Medium	Town DPW Cornell Local Roads	High	Medium	NYS DEC	High	SIP, NSP	SP



Implement best practices for roadside ditches of highest priority concern. This may include jinstalling soft or rock check dams where slope is 2.5-10%, rock line and install hard check dams for slopes 10- 15%, Phase one focus should include er. Mt. Pleasant Rd. where some check dams installed without proper design	Priority Mitigation	Mitigation Category	Mitigation	Priority	Potential Funding Sources	Estimated Benefits	Estimated Costs	ad Agency	Estimated Timeline	EHP Issues	Critical Facility (Yes/No)	Description of Problem and Solution	Hazard(s) to be Mitigated	Goals Met	Project Name	Project Number
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proper design												installed				
Baker Hill Rd												<u>as well as</u> , Baker Hill Rd				
	ligh SIP	SIP S	SIP	High	HMGP		Low	wn Planning	1 vear	No	No	Problem: A	Flooding	1.4		



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
	Elevation, Flood Proofing			would otherwise be homeless, set up 'camp' on a small piece of land that he owns on Lower Creek Road. The parcel is in the 100-year flood zone. Solution: Ensure that the camp is sufficiently elevated by completing a survey, flood proof or elevate as necessary and issue an elevation certificate.										
2021-T DRYDEN- 003	Riparian Buffer	1	Flooding, HAB	Problem: Development along stream corridors and floodplains can disrupt a stream's dynamic equilibrium resulting in	No	No	2 years	Town DPW	Moderate	Natural System Protection	HMGP, Climate Smart Communities	High	NSP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				flooding and erosion. Agricultural activities along streams with little or no vegetative protection increase sediment and nutrients. Solution: Enact and enforce a Riparian Buffer Law that prohibits, limits, or discourages development along stream corridors and natural floodplains.										
2021-T DRYDEN- 004	Stormwater Plan	1,2,4	Flood	Problem: The town would like to update its stormwater plan as it is currently out of date and thus is no longer useful to the	No	No	2 years	Planning Board <u>Conservation</u> Board	Low	Updated plan	Municipal Budget, HMGP	High	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				municipal DPW Solution: Conduct a review of the existing stormwater plan and overlay it with new data compiled from the County. Given the town is within an MS4 zone, the SWCD can provide additional data for the town to update its stormwater inventory and update its plan.										
2021-T DRYDEN- 005	Etna Fire Dept. Mitigation	1,2	Flood	Problem: The Etna Volunteer Fire Building is located in a 100-year flood zone. Solution: The town engineer shall work with the	Yes	No	2 years	Town Engineer	Moderate	Facility Flood Mitigation	HMGP	High	SIP	PR, PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				facility maintenance crew to determine actions that need to be taken to retrofit and or relocate the facility.										
2021-T DRYDEN- 006	Virgil Creek Dam	1,2	Flood, Severe Storms	Problem: Virgil Creek Dam is classified as a class C "high hazard" dam and poses a threat to the surrounding community.	Yes	No	Short, within 5 years	Town of Dryden	Low	High	Municipal Budget	High	EAP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Solution: The Town of										
				Dryden will										
				conduct										
				outreach to										
				the dam										
				owner and										
				operator										
				about the										
				condition of										
				the dam and										
				potential risks posed by a										
				dam failure										
				and support										
				an inspection										
				plan of the										
				dam by an										
				engineer in										
				accordance										
				with the										
				existing EAP										
				and NYSDEC										
				Dam Safety										
				guidelines. The Town will										
				aid in the										
				development										
				of an updated										
				EAP as										
				needed. If										
				updates have										
				been										
				completed on										
				the dam, the										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated		Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Categorv	CRS Category
				Town will request an inspection by NYSDEC to reclassify the										
				dam.										

Table 9.5-19. Proposed Hazard Mitigation Initiatives

Notes: Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- Potential FEMA HMA Funding Sources:
- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- PDM Pre-Disaster Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation

<u>Cost:</u>



9.5 | Town of Dryden PAGE | 9.5-29

FEMA Federal Emergency Management Agency

- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Critical Facility:

Yes
Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR) These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) These actions include public activities to reduce hazard losses or 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.
- Public Information (PI) 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 educational programs for school-age children and adults.
- Natural Resource Protection (NR) 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.
- Structural Flood Control Projects (SP) 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.
- Emergency Services (ES) 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



The estimated cost for implementation.

<u>Benefits:</u>

A description of the estimated benefits, either quantitative and/or qualitative.

Project Number	Project Name	Life Safety	Property Protection	Cost- Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2021-T DRYDEN-001	Roadside Ditch Protection for Steeply Sloped Roads, Phase One	1	1	1	1	0	0	0	1	0	1	1	1	1	1	10	High
2021-T DRYDEN-002	Fred X Flood Elevation, Flood Proofing	1	1	1	1	1	0	0	1	1	1	1	1	1	1	12	High
2021-T DRYDEN-003	Riparian Buffer	0	1	1	1	0	1	0	1	1	1	0	1	1	1	10	High
2021-T DRYDEN-004	Stormwater Plan	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	12	High
2021-T DRYDEN-005	Etna Fire Dept. Mitigation	1	1	1	1	1	1	-1	1	1	1	1	1	1	1	12	High
2021-T DRYDEN-006	Virgil Creek Dam	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High

Table 9.5-20. Summary of Prioritization of Actions

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



9.5.8 Proposed Mitigation Action Types

The table below indicates the range of proposed mitigation action categories.

		FE	MA					CRS		
Hazard	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak										
Drought										
Extreme Temperature										
Flood	004	001; 002; 005	001; 003	006	003; 004; 005; 006	005			001; 002	
Harmful Algal Bloom			003		003					
Invasive Species										
Severe Storm		001	001	006	006				001	
Severe Winter Storm										
Wildfire										

Table 9.5-21. An	alysis of Mitigation	Actions by Hazard	and Cateaorv
1000C 3.5 E1. 701	acysis of racigation	reccons by mazara	and category

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

9.5.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Dryden followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Town departments, including: the Dryden Planning Department and Conservation Board. The Code Enforcement Officer, David Sprout, represented the community on the Town of Dryden Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Additional documentation on the Town of Dryden's planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix X (Meetings).



9.5.10 Hazard Area Extent and Location

A hazard area extent and location map has been generated for the Town of Dryden that illustrates the probable areas impacted within the Town of Dryden. This map is based on the best available data at the time of the preparation of this plan and is considered to be adequate for planning purposes. The map has only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of Dryden has significant exposure. The map is provided on the next page.



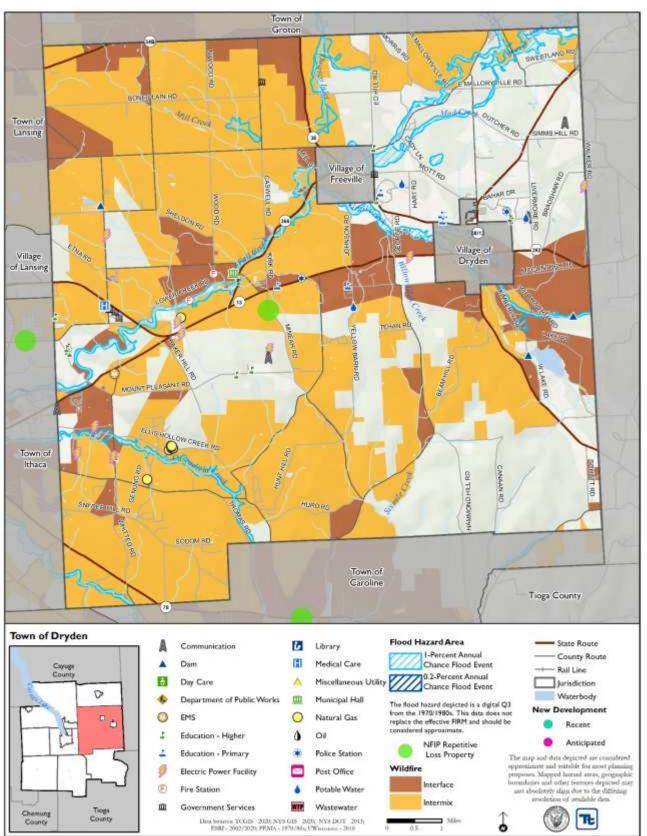


Figure 9.5-1. Town of Dryden Hazard Area Extent and Location Map



9.5 | Town of Dryden PAGE | 9.5-34

		on Worksheet				
Project Name:	Fred X Flood Elevation and Flood Proofing					
Project Number:	2021-T DRYDEN-002					
	Risk	/ Vulnerability				
Hazard(s) of Concern:	Flooding					
Description of the Problem:	A man, who would other owns on Lower Creek Roa				mall piece of land that he one.	
	Action or Project In					
Description of the Solution:Ensure that the camp is sufficiently elevated by completing a survey , flood proof or elevate as necessary and issue an elevation certificate.						
Is this project	related to a Critical Facil	ity?	Yes 🗆	No 🖂		
Is the critical facility loca	ted in the 1% annual cha	nce flood area?	Yes 🗆	No 🖂		
-	nd to protect the 500-year flood		worse case	damage sce	nario, whichever is greater)	
Level of Protection:	100-year flood	Estimated Benefits (losses avoided): Mitigate loss of life				
Useful Life:	25 years	Goals Met: 1,5				
Estimated Cost:	5000	Mitigation Acti	Structural and Infrastructure Project			
Plan for Implementation						
Prioritization:	High	Desired Timeframe for Implementation:				
Estimated Time Required for Project Implementation:	Two Months	Potential Funding Sources: Office for the Aging, Dept of Social Service				
Responsible	Town of Dryden	Local Planning Mechanisms to be Mitigation				
Organization:	Planning Used in implementation if any:					
	Three Alternatives Co			tion)		
	Action		Estimated Cost		Evaluation	
Alternatives:					t problem continues	
Alternatives:	Remove property 10-100k Potential for litigation owner					
	Purchase property	ty 10-100k Becomes homeless				
Progress Report (for plan maintenance)						
Date of Status Report:						
Report of Progress:						
Update Evaluation of the Problem and/or Solution:						



Action Worksheet					
Project Name:	Fred X Flood Elevation and Flood Proofing				
Project Number:	2021-T DRYDEN-002				
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate			
Life Safety	1	-			
Property Protection	1	-			
Cost-Effectiveness	1	-			
Technical	1	-			
Political	1	-			
Legal	0	-			
Fiscal	0	Funding from another source			
Environmental	1	-			
Social	1	No adverse impact			
Administrative	1	-			
Multi-Hazard	1	-			
Timeline	1	-			
Agency Champion	1	Code Enforcement Officers			
Other Community Objectives	1	-			
Total	12				
Priority (High/Med/Low)	High				



	Actio	on Worksheet					
Project Name:	Riparian Buffer						
Project Number:	2021-T DRYDEN-003	2021-T DRYDEN-003					
	Risk	/ Vulnerability					
Hazard(s) of Concern:	Flooding, HABs						
Description of the Problem:	Development along stream corridors and floodplains can disrupt a stream's dynamic equilibrium resulting in flooding and erosion. Agricultural activities along streams and little or no vegetative protection increase sediment and nutrients.						
	Action or Project I	ntended for Impl	ementa	itio	1		
Description of the Solution:	Description of theEnact and enforce a Riparian Buffer Law that prohibits, limits, or discourages development along stream corridors and natural floodplains.						
Is this project	related to a Critical Facil	ity?	Yes		No	\boxtimes	
Is the critical facility loca	ted in the 1% annual cha	nce flood area?	Yes		No	\boxtimes	
-	nd to protect the 500-year flood		worse ca	ase d	amage	e scei	nario, whichever is greater)
Level of Protection:	100 year flood	Estimated Benefits (losses avoided): Open Space; Habita				Open Space; Habitat	
Useful Life:	In perpetuity	Goals Met: 1				—	
Estimated Cost:	Low	Mitigation Action Type:				Natural System Protection	
	Plan for Implementation						
Prioritization:	High	Desired Timeframe for Implementation: 3 months				3 months	
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:			QRIP, IO		
Responsible Organization:	Town of Dryden Town Board	Local Planning Mechanisms to be Used in Implementation if any:			Mitigation		
	Three Alternatives Co	nsidered (includ	ling No .	Acti	ion)		
	Action		Estimated Cost				Evaluation
	No Action	\$0				t problem continues	
Alternatives:	Increase development fees	Low		Not a strong deterrent		_	
	Purchase development rights	nt High Infeasible				Infeasible	
Progress Report (for plan maintenance)							
Date of Status Report:							
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							



Action Worksheet					
Project Name:	Riparian Buffer				
Project Number:	2021-T DRYDEN-003				
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate			
Life Safety	0				
Property Protection	1				
Cost-Effectiveness	1				
Technical	1				
Political	0	Pro and con public opinion			
Legal	1				
Fiscal	0				
Environmental	1				
Social	1	No adverse impact or disruption			
Administrative	1				
Multi-Hazard	0				
Timeline	1				
Agency Champion	1	Conservation board			
Other Community Objectives	1	Open space protection			
Total	10				
Priority (High/Med/Low)	High				



	Acti	on Worksheet					
Project Name:	Roadside Ditch Protection for Steeply Sloped Roads, Phase One						
Project Number:	2021_Town_Dryden_001						
	Risk	/ Vulnerability					
Hazard(s) of Concern:	Flood, Severe Storm	,					
Description of the Problem:	roadside ditches and ove	Problem: High velocity runoff from severe rain events/rapid snow pack melt erodes roadside ditches and overwhelms culverts. Sediment laden stormwater clogs undersized culverts and contributes to flooding when ditches are overwhelmed.					
	Action or Project In	ntended for Impl	lement	tatio	n		
Description of the Solution:	Description of the Solution: Install soft or rock check dams where slope is 2.5-10%, rock line and install hard check dams for slopes 10-15%. Phase one focus on Mt. Pleasant Rd. where some check dams have been installed without proper design. Baker Hill Rd						
Is this project	related to a Critical Facil	ity?	Yes		No	\boxtimes	
Is the critical facility loca	ted in the 1% annual cha	nce flood area?	Yes		No	\boxtimes	
(If yes, this project must inter	nd to protect the 500-year flood	d event or the actual	worse	case d	lamage	e sce	nario, whichever is greater)
Level of Protection:	Flash flood	Estimated Banafits			Flood Mitigation		
Useful Life:	Permanent if mandated					1, 3	
Estimated Cost:	10-100k	Mitigation Action Type:				Natural System Protection	
Plan for Implementation							
Prioritization:	High	Desired Timeframe for6 months once fundinImplementation:secured			6 months once funding secured		
Estimated Time Required for Project Implementation:	Unknown	Potential Funding Sources: TEP, CHIPS, WQIP				TEP, CHIPS,WQIP	
Responsible Organization:	Town od Dryden Highway Dept.	Local Planning Mechanisms to be Used in Implementation if any: Mitigation			Mitigation		
	Three Alternatives Co			o Acti	ion)		
	Action	Estimated Cost			Evaluation		
	No Action \$0 Curre				nt problem continues		
Alternatives:	Only replace undersized culverts	d High High cost and incomplete solution				nd incomplete solution	
	Dig ditch deeper	Medium and High Exacerbates problem					
	Progress Repor	rt (for plan maint	tenanc	e)			
Date of Status Report:							
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							



Action Worksheet					
Project Name:	ject Name: Roadside Ditch Protection for Steeply Sloped Roads, Phase One				
Project Number:	2021_Town_Dryden_001				
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate			
Life Safety	1				
Property Protection	1				
Cost-Effectiveness	1	For phase 1			
Technical	1				
Political	0				
Legal	0				
Fiscal	0	Grants would be needed			
Environmental	1	Positive environmental impact; cleaner runoff entering receiving waters			
Social	0	No adverse impact on any segment of population			
Administrative	1				
Multi-Hazard	1	Flood and severe storm			
Timeline	1				
Agency Champion	1	Stormwater management officer			
Other Community Objectives	1	Support protection of functional capabilities.			
Total	10				
Priority (High/Med/Low)	High				

