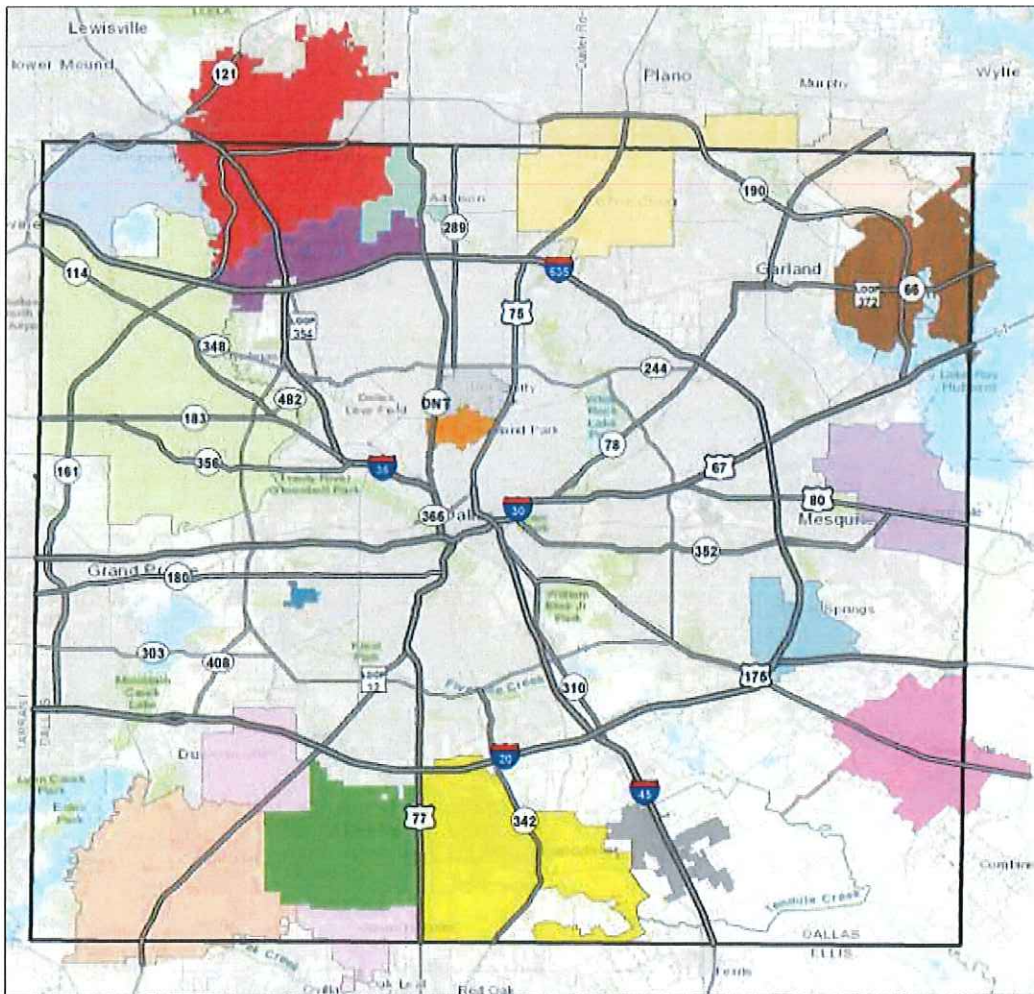


# DALLAS COUNTY HAZARD MITIGATION ACTION PLAN UPDATE 2020

**Planning Participants:** Dallas County, Town of Addison, City of Balch Springs, City of Carrollton, City of Cedar Hill, City of Cockrell Hill, City of Coppell, City of DeSoto, City of Duncanville, City of Farmers Branch, City of Glenn Heights, Town of Highland Park, City of Irving, City of Lancaster, City of Richardson, City of Rowlett, City of Sachse, City of Seagoville, Town of Sunnyvale, City of University Park, and City of Wilmer



*Maintaining a Safe, Secure and  
Sustainable Community*

## SECTION 17: PREVIOUS ACTIONS

---

Summary.....	1
Dallas County.....	2
Town of Addison .....	11
City of Balch Springs.....	21
City of Carrollton .....	29
City of Cedar Hill .....	43
City of Cockrell Hill.....	57
City of Coppell.....	66
City of DeSoto .....	76
City of Duncanville .....	87
City of Farmers Branch .....	97
City of Glenn Heights .....	112
Town of Highland Park.....	120
City of Irving .....	132
City of Lancaster .....	144
City of Richardson.....	155
City of Rowlett.....	165
City of Sachse.....	177
City of Seagoville .....	191
Town of Sunnyvale .....	197
City of Universtiy Park.....	210
City of Wilmer.....	217

### SUMMARY

Planning Team members were given copies of the previous mitigation actions submitted in the 2015 Plan at the mitigation workshop. Participating jurisdictions within Dallas County reviewed the previous actions and provided an analysis as to whether the action had been completed, should be deferred as an ongoing activity, or be deleted from the Plan Update. The actions from the 2015 Plan are included in this section as they were written in 2015, with the exception of the “2019 Analysis” section.

## TOWN OF ADDISON

Town of Addison (Past Action) – 1		
	<b>Proposed Action:</b>	Implement the Texas Safe Room Rebate Program for residents of the Town of Addison.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Tornado, High Winds
<b>Effect on new buildings:</b>	Provides safe shelter in new building during severe weather.
<b>Effect on existing buildings:</b>	Provides residents of existing building better access to safe shelters during severe weather
<b>Priority:</b>	Medium
<b>Estimated Cost:</b>	50% (up to ) \$3,000 per shelter
<b>Implementation Schedule:</b>	Within one year of funds being approved.
<b>Coordinating Agency:</b>	Emergency Management
<b>Potential Funding Sources:</b>	Mitigation programs
<b>Cost Effectiveness:</b>	Loss of life can be prevented through this program.
<b>Discussion:</b>	The majority of funds will be used as direct rebates to residents and builders up to 3,000 possible rebates, following the procedures in the Metro Safe Room Rebate Program lead by the North Central Texas Council of Governments.

<b>2019 Analysis:</b>
Complete



## Section 17: Previous Actions

Town of Addison (Past Action) – 2	
<b>Proposed Action:</b>	Tree trimming program to minimize debris and protect power lines and infrastructure.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	High winds, winter storms, tornado and lightning
<b>Effect on new buildings:</b>	None
<b>Effect on existing buildings:</b>	None
<b>Priority:</b>	High
<b>Estimated Cost:</b>	\$100,000
<b>Implementation Schedule:</b>	Within one year of funding
<b>Coordinating Agency:</b>	Town of Addison Parks Department
<b>Potential Funding Sources:</b>	Town of Addison
<b>Cost Effectiveness:</b>	The cost of implementing this program is much less than having to deal with the effects that debris can cause following a severe event.
<b>Discussion:</b>	This program will help prevent wind damage. Possible strategies include establishing standards for all utilities regarding tree pruning around lines and incorporating inspection and management of hazardous trees into the drainage system maintenance process.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.

Section 17: Previous Actions

Town of Addison (Past Action) – 3		
	<b>Proposed Action:</b>	Develop and implement a comprehensive public education and outreach program.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Tornado, extreme heat, high wind, flooding, drought, winter storm hail, earthquake, lightning, stream bank erosion
<b>Effect on new buildings:</b>	This has no direct effect on structures.
<b>Effect on existing buildings:</b>	This has no direct effect on structures.
<b>Priority:</b>	Medium
<b>Estimated Cost:</b>	\$10,000.00
<b>Implementation Schedule:</b>	2 Years
<b>Coordinating Agency:</b>	Town of Addison Fire Department
<b>Potential Funding Sources:</b>	Budget, Donations
<b>Cost Effectiveness:</b>	This is extremely cost effective.
<b>Discussion:</b>	Educate the public on potential hazards they may face and also set a realistic understanding of what will be provided and when. This program will include information on natural hazard mitigation programs and private mitigation projects.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.

## Section 17: Previous Actions

Town of Addison (Past Action) – 4	
<b>Proposed Action:</b>	Retrofit Public Buildings and Critical Facilities to protect against natural hazards.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	High winds, winter storms, lightning, hail, extreme heat, tornados, flooding
<b>Effect on new buildings:</b>	New Town facilities will be built to FEMA 361 standards
<b>Effect on existing buildings:</b>	Old Building that house critical facilities and equipment will be retrofitted to higher standards
<b>Priority:</b>	Low
<b>Estimated Cost:</b>	\$500,000
<b>Implementation Schedule:</b>	2 years after the receipt of funding
<b>Coordinating Agency:</b>	Town of Addison Facilities & Fleet Division
<b>Potential Funding Sources:</b>	HMGP, PDM, state and federal grants, Town budget
<b>Cost Effectiveness:</b>	The cost of implement this program is much less than the benefits
<b>Discussion:</b>	Public buildings and critical facilities can be retrofitted to reduce future severe weather events with action that can include improving roof coverings, anchoring roof-mounted heating, ventilation, and air conditioning units, retrofitting buildings with load-path connectors to strengthen the structural frames, retrofitting or constructing the emergency operations center to FEMA 361 standards, avoiding placing flag poles or antennas near buildings, implement lightning protection systems to prevent roof cover damage, requiring upgrading of reused buildings that will house critical facilities, protecting traffic lights and other traffic controls from high winds and winter weather.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.

Section 17: Previous Actions

Town of Addison (Past Action) – 5	
<b>Proposed Action:</b>	Implement water-wise program for the Town of Addison. This program will include purchasing water saving equipment and fixtures in all Town facilities such as low flow fixtures.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Drought
<b>Effect on new buildings:</b>	None
<b>Effect on existing buildings:</b>	None
<b>Priority:</b>	Medium
<b>Estimated Cost:</b>	\$200,000
<b>Implementation Schedule:</b>	Within 24 months of approval and receipt of funding
<b>Coordinating Agency:</b>	Permits and Inspection Department
<b>Potential Funding Sources:</b>	General Budget
<b>Cost Effectiveness:</b>	Water is an increasingly expensive resource especially during drought. Reducing water consumption is one of the easiest and most inexpensive ways of achieving cost savings.
<b>Discussion:</b>	Water conservation standards is always important and especially during extreme temperature and limited rainfall duration.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.



Section 17: Previous Actions

Town of Addison (Past Action) – 6		
	<b>Proposed Action:</b>	Develop and Implement a Weatherization Assistance Program (WAP) similar to that of Dallas County.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Extreme heat and winter weather
<b>Effect on new buildings:</b>	No effect on buildings
<b>Effect on existing buildings:</b>	Provides qualified families with an energy audit and installation of weatherization measures to increase their home's energy efficiency
<b>Priority:</b>	High
<b>Estimated Cost:</b>	\$50,000
<b>Implementation Schedule:</b>	As funding is available
<b>Coordinating Agency:</b>	Town of Addison Fleet & Facilities Division in collaboration with Dallas County Health & Human Services
<b>Potential Funding Sources:</b>	General fund expenditures, and/or private, federal and state grant funds
<b>Cost Effectiveness:</b>	The Weatherization Assistance Program helps low-income families; particularly the elderly, disabled and persons with special needs in controlling their energy costs by promoting conservation. This program saves lives especially during extreme weather conditions. It is very cost effective.
<b>Discussion:</b>	The Weatherization Assistance Program (WAP) would provide assistance to income eligible households by weatherizing their homes, conserving energy and reducing high utility costs in the process. Eligible applications will be considered for assessments. Each dwelling will be assessed and audited before any work begins. The program could also equip homes with weather stripping, caulking, insulation, repaired or new doors and windows, solar screens, repaired or retrofitted heating and cooling units and duct work.

<b>2019 Analysis:</b>
<b>Delete Action</b> – No longer considered an effective priority.



## Section 17: Previous Actions

Town of Addison (Past Action) – 7	
<b>Proposed Action:</b>	Works with Dallas County and other jurisdictions in Dallas County and participate in an earthquake study to help determine the level of risk and mitigation strategies.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Earthquake
<b>Effect on new buildings:</b>	The study will not have any effect on buildings. However, the findings from the study may result in changes in the building and infrastructure.
<b>Effect on existing buildings:</b>	The study will not have any effect on buildings.
<b>Priority:</b>	Low
<b>Estimated Cost:</b>	\$100,000
<b>Implementation Schedule:</b>	Within 24 months of approval and receipt of funding
<b>Coordinating Agency:</b>	Public Works in collaboration with Dallas County and other jurisdictions in Dallas County
<b>Potential Funding Sources:</b>	Grant funds received from the Hazard Mitigation Grant Program or other sources; County Budget
<b>Cost Effectiveness:</b>	An effective study will lead to savings of lives and property and infrastructure. This is a very cost effective.
<b>Discussion:</b>	As noted in Section 5, there is a data deficiency with earthquake hazard in Dallas County as they have only been experienced (recorded) since 2008. The magnitude of these earthquake events are considered minor. While not injuries no injuries, fatalities or major damage recorded to date, there is still a need to conduct studies and collect data so as to obtain the information and data needed to make the most appropriate decision.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.

## Section 17: Previous Actions

Town of Addison (Past Action) – 8	
<b>Proposed Action:</b>	Lightning protection/alarms: These systems protect citizens and employees who utilize outdoor recreation and sports facilities during weather events that produce cloud to ground lightning.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Lightning
<b>Effect on new buildings:</b>	None
<b>Effect on existing buildings:</b>	None
<b>Priority:</b>	Medium
<b>Estimated Cost:</b>	\$6,000/each
<b>Implementation Schedule:</b>	Within one year of funding.
<b>Coordinating Agency:</b>	Parks & Recreation Department
<b>Potential Funding Sources:</b>	Town Budget & Hazard Mitigation Grants
<b>Cost Effectiveness:</b>	The cost of implement this program is much less than the benefits.
<b>Discussion:</b>	Installing such systems will help warn staff and other users of Town outdoor facilities to seek shelter.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.

## Section 17: Previous Actions

Town of Addison (Past Action) – 9	
<b>Proposed Action:</b>	Construct Stream Bank Erosion Studies: Conduct a study to identify the vulnerability to stream bank erosion. Identify cost-effective action items.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Flooding, stream bank erosion
<b>Effect on new buildings:</b>	This has no direct effect on structures.
<b>Effect on existing buildings:</b>	This has no direct effect on structures.
<b>Priority:</b>	Medium
<b>Estimated Cost:</b>	\$30,000.00
<b>Implementation Schedule:</b>	2 Years
<b>Coordinating Agency:</b>	Public Works, Building and Code Departments
<b>Potential Funding Sources:</b>	Budget, Donations
<b>Cost Effectiveness:</b>	This is extremely cost effective.
<b>Discussion:</b>	As noted hazard assessment section of this annex, there is a data deficiency with stream bank erosion in Dallas County. Conducting studies will help develop a database to track the vulnerability to stream bank erosion in Dallas County including the Town of Addison.

<b>2019 Analysis:</b>
<b>Defer Action</b> – Action will be included in the 2020 Plan Update.



## Section 17: Previous Actions

Town of Addison (Past Action) – 10		
	<b>Proposed Action:</b>	Install an automatic barrier at the low-water bridge on Marsh Lane.

MITIGATION ACTION DETAILS	
<b>Hazard Addressed:</b>	Flooding
<b>Effect on new buildings:</b>	None
<b>Effect on existing buildings:</b>	None
<b>Priority:</b>	High
<b>Estimated Cost:</b>	\$75,000
<b>Implementation Schedule:</b>	2 years after funding
<b>Coordinating Agency:</b>	Town of Addison Engineering Department
<b>Potential Funding Sources:</b>	Town of Addison Capital Improvement Fund or Federal grants.
<b>Cost Effectiveness:</b>	The cost of installing this automatic barrier will save lives.
<b>Discussion:</b>	Mitigation will be implemented by protecting bridge using stabilizing and armoring techniques to prevent the vulnerable areas of the bridge. In addition the barriers will also prevent bridge users from accessing the bridge during flood events.

<b>2019 Analysis:</b>
<b>Delete Action</b> – No longer considered an effective priority.

## SECTION 18: MITIGATION ACTIONS

---

Summary .....	1
Dallas County – County-Wide Actions.....	4
Dallas County .....	8
Town of Addison .....	15
City of Balch Springs.....	23
City of Carrollton .....	29
City of Cedar Hill .....	65
City of Cockrell Hill.....	81
City of Coppell.....	98
City of DeSoto.....	126
City of Duncanville .....	140
City of Farmers Branch .....	155
City of Glenn Heights .....	170
Town of Highland Park.....	184
City of Irving.....	190
City of Lancaster .....	202
City of Richardson.....	220
City of Rowlett.....	247
City of Sachse.....	261
City of Seagoville .....	281
Town of Sunnyvale .....	293
City of University Park.....	311
City of Wilmer.....	314

### SUMMARY

As discussed in Section 2, at the mitigation workshop the planning team and stakeholders met to develop mitigation actions for each of the natural hazards included in the Plan Update. Each of the actions in this section were prioritized based on FEMA's Social, Technical, Administrative, Political, Legal, Economic, and Environmental (STAPLEE) criteria necessary for the implementation of each action.

As part of the economic evaluation of the STAPLEE analysis, jurisdictions analyzed each action in terms of the overall costs, measuring whether the potential benefit to be gained from the action

## Section 18: Mitigation Actions

outweighed costs associated with it. As a result of this exercise, priority was assigned to each mitigation action by marking them as High (H), Moderate (M), or Low (L). An action that is ranked as “High” indicates that the action will be implemented as soon as funding is received. A “Moderate” action is one that may not be implemented right away depending on the cost and number of citizens served by the action. Actions ranked as “Low” indicate that they will not be implemented without first seeking grant funding and after “High” and “Moderate” actions have been completed.

All mitigation actions created by Planning Team members are presented in this section in the form of Mitigation Action Worksheets. More than one hazard is sometimes listed for an action, if appropriate. Actions presented in this section represent a comprehensive range of mitigation actions per current State and FEMA Guidelines, including two actions, per hazard, and of two different types for each participating jurisdiction. The term county-wide action refers to Dallas County and all participating jurisdictions.

**Table 18-1. Dallas County Mitigation Action Matrix**

Jurisdiction	TYPE OF ACTION										
	Drought	Extreme Heat	Hail	Lightning	Thunderstorm Wind	Tornado	Wildfire	Dam/Levee Failure	Flood	Winter Storm	Earthquake
Dallas County	xx	xx	xx	xx	xx	xx	xxx	xxx	xxx	xx	xxx
Town of Addison	xx	xx	xx	xx	xx	xx	xx	N/A	xx	xx	xxx
City of Balch Springs	xx	xx	xx	xx	xx	xx	xx	N/A	xx	xx	xx
City of Carrollton	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
City of Cedar Hill	xxx	xx	xx	xx	xx	xx	xxx	xxx	xxx	xx	xx
City of Cockrell Hill	xx	xxx	xxx	xxx	xxx	xxx	xxx	N/A	xxx	xxx	xxx
City of Coppell	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
City of DeSoto	xx	xx	xx	xx	xx	xx	xx	N/A	xx	xx	xx
City of Duncanville	xx	xx	xx	xx	xx	xx	xx	N/A	xx	xx	xx
City of Farmers Branch	xx	xx	xx	xx	xx	xx	xxx	N/A	xxx	xx	xx
City of Glenn Heights	xxx	xxx	xx	xxx	xxx	xxx	xxx	N/A	xx	xx	xxx
Town of Highland Park	xx	xx	xxx	xx	xx	xx	xx	N/A	xx	xx	xx
City of Irving	xx	xx	xx	xx	xx	xx	xx	xxx	xxx	xx	xxx
City of Lancaster	xxx	xx	xx	xx	xx	xx	xxx	N/A	xx	xx	xx
City of Richardson	xxx	xxx	xxx	xxx	xxx	xxx	xxx	N/A	xxx	xxx	xxx



## Section 18: Mitigation Actions

Jurisdiction	Drought	Extreme Heat	Hail	Lightning	Thunderstorm Wind	Tornado	Wildfire	Dam/Levee Failure	Flood	Winter Storm	Earthquake
City of Rowlett	XX	XX	XXX	XX	XXX	XX	XXX	N/A	XXX	XX	XXX
City of Sachse	XX	XX	XXX	XXX	XXX	XXX	XXX	N/A	XXX	XXX	XXX
City of Seagoville	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Town of Sunnyvale	XX	XX	XX	XX	XXX	XXX	XXX	XXX	XXX	XX	XXX
City of University Park	XX	XX	XX	XX	XX	XX	XX	N/A	XXX	XX	XX
City of Wilmer	XX	XX	XX	XX	XXX	XXX	XX	N/A	XXX	XX	XXX

**TOWN OF ADDISON**

Town of Addison – Action #1	
<b>Proposed Action:</b>	Adopt and implement a routine tree trimming program that clears tree limbs near power lines and/or hanging in right-of-way; Remove dead trees from right-of-way and drainage systems on a scheduled basis.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community-wide
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Reduce damages to infrastructure; Ensure continuity of services during and after event; Reduce damages associated with power outages; Reduce risk of injuries or fatalities to vulnerable populations.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Flood, Thunderstorm Wind, Hail, Lightning, Tornado, Winter Storm, Wildfire
<b>Effect on New/Existing Buildings:</b>	Reduce risk to new and existing structures
<b>Priority (High, Moderate, Low):</b>	High
<b>Estimated Cost:</b>	\$160,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison Parks Department
<b>Implementation Schedule:</b>	Within 14 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Maintenance Plan, CWPP, Drainage Plan

COMMENTS
<p>This program will help prevent wind damage. Possible strategies include establishing standards for all utilities regarding tree pruning around lines and incorporating inspection and management of hazardous trees into the drainage system maintenance process.</p> <p>This action also represents a deferred action for Town of Addison.</p>

## Section 18: Mitigation Actions

Town of Addison – Action #2	
<b>Proposed Action:</b>	Work with Dallas County and other jurisdictions in Dallas County and participate in an earthquake study to help determine the levels of risk and mitigation strategies.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community-wide
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Improve risk assessment; Reduce risk of damages or injuries through building code improvements; Reduce risk of damages and injuries.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Local Plans and Regulations

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Earthquake
<b>Effect on New/Existing Buildings:</b>	Reduce risk to new structures and infrastructure
<b>Priority (High, Moderate, Low):</b>	Low
<b>Estimated Cost:</b>	\$100,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison Public Works
<b>Implementation Schedule:</b>	Within 24-36 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Building Ordinance / Building Codes

COMMENTS
This action also represents a deferred action for Town of Addison.



## Section 18: Mitigation Actions

Town of Addison – Action #3	
<b>Proposed Action:</b>	Implement water-wise program for the Town of Addison. This program will include purchasing water saving equipment and fixtures in all Town facilities such as low flow fixtures, greywater reuse systems, and drought tolerant landscaping.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community-wide public facilities
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Reduce water usage at public facilities. Water is an increasingly expensive resource especially during drought. Reducing water consumption is one of the easiest and most inexpensive ways of achieving cost savings.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Drought
<b>Effect on New/Existing Buildings:</b>	Reduce risk to new and existing structures
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$200,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison Permits and Inspections
<b>Implementation Schedule:</b>	Within 24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Capital Improvement Plan

COMMENTS
Water conservation standards is always important, especially during extreme temperature and limited rainfall duration. This action also represents a deferred action for Town of Addison.

## Section 18: Mitigation Actions

Town of Addison – Action #4	
<b>Proposed Action:</b>	Acquire and install Lightning protection / alarms. These systems protect citizens and employees who utilize outdoor recreation and sports facilities during weather events that produce cloud to ground lightning.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Recreation Center and Events Site
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Reduce risk of injuries or fatalities to citizens.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Lightning
<b>Effect on New/Existing Buildings:</b>	N/A
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$15,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison Parks and Recreation
<b>Implementation Schedule:</b>	Within 12-24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	N/A

COMMENTS
This action also represents a deferred action for Town of Addison.

Section 18: Mitigation Actions

Town of Addison – Action #5	
<b>Proposed Action:</b>	Implement education and awareness program utilizing media, social media, bulletins, flyers, etc. to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community-wide
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Promote hazard awareness and protect citizens from potential injuries and damages.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Education and Awareness

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Drought, Earthquake, Extreme Heat, Expansive Soils, Flood, Hail, Hurricane, Lightning, Thunderstorm Wind, Tornado, Wildfire, Winter Storm
<b>Effect on New/Existing Buildings:</b>	N/A
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$10,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison Fire Department
<b>Implementation Schedule:</b>	Within 12-24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Emergency Operations Plan; Public Education Curriculum

COMMENTS



## Section 18: Mitigation Actions

Town of Addison – Action #6	
<b>Proposed Action:</b>	Harden/retrofit public buildings and critical facilities to hazard-resistant levels.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community public buildings and critical facilities
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Reduce damages at critical facilities; Ensure continuity of critical services during and after event; Reduce risk of injury to emergency and critical personnel.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Earthquake, Extreme Heat, Flood, Hail, Lightning, Thunderstorm Wind, Tornado, Wildfire, Winter Storm
<b>Effect on New/Existing Buildings:</b>	Reduce risk to existing and new structures
<b>Priority (High, Moderate, Low):</b>	Low
<b>Estimated Cost:</b>	\$500,000
<b>Potential Funding Sources:</b>	Local Funds, Private contributions, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison General Services/Facilities
<b>Implementation Schedule:</b>	Within 24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	N/A

COMMENTS
Public buildings and critical facilities can be retrofitted to reduce future severe weather events with action that can include improving roof coverings, anchoring roof-mounted heating, ventilation, and air conditioning units, retrofitting buildings with load-path connectors to strengthen the structural frames, retrofitting or constructing the emergency operations center to FEMA 361 standards, avoiding placing flag poles or antennas near buildings, implement lightning protection systems to prevent roof cover damage, requiring upgrading of reused buildings that will house critical facilities, protecting traffic lights and other traffic controls from high winds and winter weather.

## Section 18: Mitigation Actions

Town of Addison – Action #7	
<b>Proposed Action:</b>	Conduct creek and stream bank erosion studies: conduct a study to identify vulnerability to stream bank erosion. Identify and implement cost effective actions.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community-wide creeks and streams
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Reduce losses related to flooding.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure Natural Systems Protection

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Flood
<b>Effect on New/Existing Buildings:</b>	Reduce risk to existing structures and infrastructure
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$100,000
<b>Potential Funding Sources:</b>	Local Funds, Hazard Mitigation Grant Program (HMGP)
<b>Lead Agency/Department Responsible:</b>	Town of Addison Public Works, Building and Codes
<b>Implementation Schedule:</b>	Within 18-24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Emergency Management Plan

COMMENTS
There is a data deficiency when it comes to stream bank erosion. Conducting studies will help develop a database to track the community's vulnerability to stream bank erosion in Dallas County including the Town of Addison. This action also represents a deferred action for Town of Addison.

Section 18: Mitigation Actions

Town of Addison – Action #8	
<b>Proposed Action:</b>	Acquire and install generators with hard wired quick connections at all critical facilities.
<b>BACKGROUND INFORMATION</b>	
<b>Jurisdiction/Location:</b>	Community critical facilities
<b>Risk Reduction Benefit (Current Cost/Losses Avoided):</b>	Provide power for critical facilities during power outages and ensure continuity of critical services.
<b>Type of Action (Local Plans and Regulations, Structure and Infrastructure projects, Natural Systems Protection, or Education and Awareness)</b>	Structure and Infrastructure

MITIGATION ACTION DETAILS	
<b>Hazard(s) Addressed:</b>	Dam or Levee Failure, Earthquake, Extreme Heat, Flood, Hail, Lightning, Thunderstorm Wind, Tornado, Wildfire, Winter Storm
<b>Effect on New/Existing Buildings:</b>	N/A
<b>Priority (High, Moderate, Low):</b>	Moderate
<b>Estimated Cost:</b>	\$200,000
<b>Potential Funding Sources:</b>	Local Funds, State and Federal Grants
<b>Lead Agency/Department Responsible:</b>	Town of Addison General Services, Facilities
<b>Implementation Schedule:</b>	Within 12-24 months of plan adoption
<b>Incorporation into Existing Plans:</b>	Emergency Operations Plan

COMMENTS