

Section 5

Mitigation Strategy Requirements

Mitigation Strategy---Requirement §201.6(c)(3):

The plan **shall** include a strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

Local Hazard Mitigation Goals---Requirement §201.6(c)(3)(i):

[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

- Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

Identification and Analysis of Mitigation Measures---Requirement §201.6(c)(3) (ii):

[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

- Does the plan identify a **comprehensive range** of specific mitigation actions and projects for each hazard?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on **new** buildings and infrastructure?
- Do the identified range of mitigation actions and projects address reducing the effects of hazards on **existing** buildings and infrastructure?

Implementation of Mitigation Measures---Requirement: §201.6(c)(3) (iii):

[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

- Does the mitigation strategy include how the actions are **prioritized**?
- Does the mitigation strategy address how the actions will be **implemented and administered**?
- Does the prioritization process include an emphasis on the use of **cost-benefit review**?

SECTION 5

REGION 5 HAZARD MITIGATION PLAN CITY OF DUPONT MITIGATION STRATEGY SECTION

Table of Contents

MITIGATION STRATEGY REQUIREMENTS	1
TABLE OF CONTENTS	2
STARTUP MITIGATION MEASURES.....	6
EXISTING MITIGATION ACTIONS	6
PLAN MAINTENANCE	6
HAZARD MITIGATION FORUM	7
PIERCE COUNTY HAZARD MITIGATION FORUM	7
CITY GOVERNMENT MITIGATION MEASURES	8
CAPABILITY IDENTIFICATION AND EVALUATION.....	8
EVACUATION AND PROTECTION OF VULNERABLE COMMUNITY MEMBERS	8
PANDEMIC FLU/COMMUNICABLE DISEASE CRISIS PLANNING.....	9
ESTABLISH RELIABLE COMMUNITY SHELTER FACILITIES	9
DEBRIS CLEARING.....	10
SEISMIC STRENGTHENING OF CITY OWNED STRUCTURES	10
SEISMIC RETROFIT OF PRIVATELY OWNED BUILDINGS.....	11
CONTINUITY OF OPERATIONS (COOP) PLANNING	11
REVISED COMPREHENSIVE EMERGENCY MANAGEMENT PLAN.....	12
FIRE FLOW MAINTENANCE	12
JURISDICTIONAL RELATIONSHIPS.....	13
REGULAR STAFF TRAINING	13
PROVIDE FOR OFF-SITE STORAGE OF ESSENTIAL PUBLIC RECORDS	14
BUSINESS CONTINUITY OF OPERATIONS PLANS	14
PROTECTION OF ELECTRONIC RECORDS.....	15
ESTABLISH A MOBILE EMERGENCY OPERATIONS CENTER.....	15
EMERGENCY GENERATOR.....	16
CRITICAL RESOURCES MASTER LIST DEVELOPMENT	16
MUTUAL AID AGREEMENT ESTABLISHMENT.....	17
NATURAL HAZARD MITIGATION PLAN: LAND USE AND NATURAL RESOURCES	17
HAZARDOUS MATERIAL STORAGE IDENTIFICATION	18
MOU/MOA ESTABLISHMENT WITH NEIGHBORING AGENCIES	18
EMERGENCY SUPPLY STOCKPILE	19
ICS TRAINING	19
IMPLEMENTATION OF REVISED COMPREHENSIVE EMERGENCY MANAGEMENT PLAN	20
CROSS TRAINING OF CITY STAFF FOR DISASTER RECOVERY	20
COORDINATION OF EOC SUPPORT DURING CIVIC CENTER CONSTRUCTION.....	21

PUBLIC EDUCATION MITIGATION MEASURES..... 22

 PANDEMIC FLU/COMMUNICABLE DISEASE CRISIS TRAINING 22

 PUBLIC EDUCATION FOR GAS, WATER, ELECTRICITY SHUT-OFF/SAFETY 22

 ALL HAZARDS/THREAT COMMUNITY PREPAREDNESS TRAINING 23

 PUBLIC COMPREHENSIVE EMERGENCY MANAGEMENT PLAN EDUCATION 23

..... 24

 HOME PREPAREDNESS, EMERGENCY EVACUATION AND SHELTER IN PLACE COMMUNITY TRAINING..... 24

 FORMAL CITIZEN EMERGENCY PREPAREDNESS PROGRAMS 24

..... 25

 WILDLAND URBAN INTERFACE FIRE AWARENESS AND TRAINING..... 25

ENDNOTES..... 26

Table 5-1 City of DuPont Mitigation Strategy Matrix

Implementation Mechanism	Mitigation Measure (<i>Hazard(s)</i>) ¹	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property Continuity	Operations	Partnerships	Natural Resources	Preparedness	Sustainable Economy
Startup	1. Existing Mitigation Actions (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	DuPont - Administration	Ongoing	✓	✓	✓	✓	✓	✓
	2. Plan Maintenance (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	DuPont - Administration	Ongoing	✓	✓	✓	✓	✓	✓
HMF	1. Pierce County Hazard Mitigation Forum (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	PC DEM; DuPont - Administration	Ongoing	✓	✓	✓	✓	✓	✓
City Government	1. Capability Identification and Evaluation (<i>E,L,T,V,D,F,WUI,SW,MM</i>)	DuPont - Emergency Management	1-2	N/A					
	2. Evacuation and Protection of Vulnerable Community Members (<i>E,L,V,F,SW,WUI,MM</i>)	DuPont - Emergency Management	5	✓				✓	
	3. Pandemic Flu/Communicable Disease Crisis Planning (<i>MM</i>)	DuPont - Emergency Management	Ongoing	✓	✓	✓		✓	✓
	4. Establish Reliable Community Shelter Facilities (<i>MM</i>)	DuPont - Emergency Management	5	✓		✓		✓	
	5. Debris Clearing (<i>E,L,V,F,SW,WUI</i>)	DuPont - Public Works	5	✓	✓	✓			✓
	6. Seismic Strengthening of City Owned Structures (<i>E,SW</i>)	DuPont - Building Dept	5	✓	✓				
	7. Seismic Retrofit of Privately Owned Buildings (<i>E,SW</i>)	DuPont - Building Dept	5	✓		✓		✓	✓
	8. Continuity of Operations Planning (<i>E,L,V,D,F,SW,WUI,MM</i>)	DuPont - Executive Staff	1-2		✓	✓			✓
	9. Revised Comprehensive Emergency Management Plan (<i>E,L,V,D,F,SW,WUI,MM</i>)	DuPont - Executive	5	✓	✓	✓	✓	✓	✓
	10. Fire Flow Maintenance (<i>E,L,V,F,SW,WUI,MM</i>)	DuPont - Public Works	5	✓		✓	✓		✓
	11. Jurisdictional Relationships (<i>E,L,V,F,SW,WUI,MM</i>)	DuPont - Executive	5	✓	✓	✓	✓	✓	✓
	12. Regular Staff Training (<i>E,L,V,F,SW,WUI,MM</i>)	DuPont - Executive Staff	1-2		✓				✓
	13. Provide for Off-Site Storage of Essential Public Records (<i>E,SW,WUI,MM</i>)	DuPont - Administrative Staff	5	✓	✓				✓
	15. Business Continuity of Operations Plans (<i>E,V,D,F,SW,WUI,MM</i>)	DuPont - Business Owners Association	5	✓	✓	✓	✓	✓	✓
	16. Protection of Electronic Records (<i>E,V,F,SW,MM</i>)	DuPont - Administration	1-2		✓				✓
	17. Establish a Mobile Emergency Operations Center (<i>E,L,V,F,SW,WUI,MM</i>)	DuPont - Fire Department	1-2	✓	✓	✓	✓		✓
	18. Emergency Generator (<i>E,SW,MM</i>)	DuPont	1-2	✓	✓				✓
	19. Critical Resources Master List Development (<i>E,V,F,SW,WUI,MM</i>)	DuPont - Fire and Admin Staff	1-2	✓	✓	✓	✓		✓

Implementation Mechanism	Mitigation Measure (Hazard(s)) ¹	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Plan Goals					
				Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	20. Mutual Aid Agreement Establishment (E,L,V,F,SW,WUI,MM)	DuPont and Steilacoom	1-2	✓	✓	✓	✓	✓	✓
	21. Natural Hazard Mitigation Plan: Land Use and Natural Resources (E,L,V,F,SW,WUI)	DuPont - Planning Department	5	✓		✓	✓		
	22. Hazardous Material Storage Identification (E,SW,MM)	DuPont	1-2	✓		✓	✓	✓	
	23. MOU/MOA Establishment with Neighboring Agencies (E,L,V,F,SW,WUI,MM)	DuPont - Executive Staff	5	✓	✓	✓			
	24. Emergency Supply Stockpile (E,L,V,F,SW,WUI,MM)	DuPont	1-2	✓	✓	✓		✓	
	25. ICS Training (E,L,V,F,SW,WUI,MM)	DuPont	1-2	✓	✓	✓	✓		✓
	26. Implementation of Revised Comprehensive Emergency Management Plan (E,L,V,F,SW,WUI,MM)	DuPont	1-2	✓	✓	✓	✓	✓	✓
	27. Cross Training of City Staff for Disaster Recovery (E,L,V,D,F,SW,WUI,MM)	DuPont - Admin Staff	1-2	✓					
28. Coordination of EOC Support During Civic Center Construction (E,L,V,F,SW,WUI,MM)	DuPont	5	✓	✓	✓		✓		
Public Education	1. Pandemic Flu/Communicable Disease Crisis Training (MM)	DuPont - Emergency Management	Ongoing	✓	✓	✓		✓	✓
	2. Public Education for Gas, Water, Electricity Shut-Off / Safety (E,L,V,F,SW,WUI,MM)	DuPont - Fire & Emergency Management	Ongoing	✓				✓	
	3. All Hazards/Threat Community Preparedness Training (E,L,V,F,SW,WUI,MM)	DuPont - Fire & Emergency Management	1-2	✓		✓		✓	
	4. Public Comprehensive Emergency Management Plan Education (E,L,V,F,SW,WUI,MM)	DuPont - Fire & Emergency Management	5	✓		✓		✓	
	5. Home Preparedness, Emergency Evacuation and Shelter in Place Community Training (E,V,F,SW,WUI,MM)	DuPont - Fire & Emergency Management	Ongoing	✓		✓		✓	
	6. Formal Citizen Emergency Preparedness Programs (E,L,V,D,F,SW,WUI,MM)	DuPont Fire & Emergency Management	5	✓		✓		✓	
	7. Wildland Urban Interface Fire Awareness & Training (WUI)	DuPont - Fire Department	5	✓	✓		✓	✓	

Startup Mitigation Measures

Existing Mitigation Actions

Hazards: E, L, T, V, D, F, WUI, SW¹, MM²

DuPont will continue to implement existing programs, policies, and regulations as identified in the Capability Identification Section of this Plan. This includes such actions as updating the Critical Area Regulations and any ensuing land use policies with best available science. It also includes continuing those programs that are identified as technical capabilities.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be accomplished with local budgets or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Administration
5. **Timeline** = Ongoing
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Plan Maintenance

Hazards: E, L, T, V, D, F, WUI, SW¹, MM

DuPont will adopt those processes outlined in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = City of DuPont - Administration
5. **Timeline** = Ongoing
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Hazard Mitigation Forum

Pierce County Hazard Mitigation Forum

Hazards: E, L, T, V, D, F, WUI, SW¹, MM

DuPont will work in conjunction with the County through the Pierce County Hazard Mitigation Forum (HMF). The Forum will continue as a means of coordinating mitigation planning efforts among all jurisdictions within the County that have completed a mitigation plan. This ensures efficient use of resources and a more cooperative approach to making a disaster resistant county. The HMF meets annually; every October. This is addressed in the Plan Maintenance Section of this Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = Minor
3. **Funding Source and Situation** = Funding could be obtained through local budget.
4. **Lead Jurisdiction(s)** = PC DEM; City of DuPont
5. **Timeline** = Ongoing
6. **Benefit** = Regional
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

City Government Mitigation Measures

Capability Identification and Evaluation

Hazards: E, L, T, V, D, F, WUI, SW¹, MM

DuPont will develop a consistent and replicable system for evaluating the City's capabilities. A comprehensive evaluation will lead to specific policy recommendations to more effectively achieve disaster resistant communities. Further, a capability evaluation involves measurable variables so that capabilities may eventually be tracked in conjunction with the implementation of all mitigation measures. This is a key component in evaluating the success of the City's overall mitigation strategy.

1. **Goal(s) Addressed** = N/A. Goals addressed are contingent upon the mitigation measures resulting from this priority.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Short-term
6. **Benefit** = City-Wide
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Evacuation and Protection of Vulnerable Community Members

Hazards: E, L, V, F, SW, WUI¹, MM²

Develop a plan to identify and evacuate vulnerable community members in the event of a disaster or emergency.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Emergency Management
5. **Timeline** = Long-term
6. **Benefit** = Citizens of DuPont, Patriots Landing, Fire Dept
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Pandemic Flu/Communicable Disease Crisis Planning

Hazards: MM²

Develop a Pandemic Flu / Communicable Disease Plan within two years.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Emergency Management
5. **Timeline** = Ongoing
6. **Benefit** = All jurisdictions and infrastructures
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Establish Reliable Community Shelter Facilities

Hazards: MM²

Identify and secure community shelter sites and or purchase suitable shelter tents for this purpose.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Emergency Management
5. **Timeline** = Long-Term
6. **Benefit** = Citizens of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Debris Clearing

Hazards: E, L, V, F, SW, WUI¹

Develop a plan for debris clearing and the clearing sequence to maintain access to critical routes and resources.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Public Works
5. **Timeline** = Long-term
6. **Benefit** = Emergency Vehicle Response, businesses and residents
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Seismic Strengthening of City Owned Structures

Hazards: E, SW¹

Continue to seismically retrofit city owned structures and insure seismically sound building practices of City owned structures.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants and state or federal grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Building Department
5. **Timeline** = Long-term
6. **Benefit** = City of DuPont resources and employees
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be somewhat controversial.

Seismic Retrofit of Privately Owned Buildings

Hazards: E, SW¹

Implement and promote a seismic strengthening program of privately owned homes and businesses within four years.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Building Department
5. **Timeline** = Long-term
6. **Benefit** = Citizens and businesses
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be somewhat controversial.

Continuity of Operations (COOP) Planning

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Develop a Continuity of Operations Plan within one year including a policy for review and revision of the plan annually.

1. **Goal(s) Addressed** = Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Executive Staff
5. **Timeline** = Short-term
6. **Benefit** = City and citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Revised Comprehensive Emergency Management Plan

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Complete revisions of Comprehensive Emergency Management Plan with formal adoption by the City within the next year.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Executive
5. **Timeline** = Long-term
6. **Benefit** = All areas of the city and surrounding communities
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Fire Flow Maintenance

Hazards: E, L, V, F, SW, WUI¹, MM²

Maintain fire flow maintenance.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Public Works
5. **Timeline** = Long-term
6. **Benefit** = Fire Departments, Pubic Works and the city
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Jurisdictional Relationships

Hazards: E, L, V, F, SW, WUI¹, MM²

Formulate relationships with neighboring jurisdictions. Establish formal agreements when appropriate and necessary. Those jurisdictions should include, but not be limited to: Fort Lewis, Steilacoom, Lakewood, Lacey, Pierce and Thurston Counties, and specialty services / teams within the region.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Executive
5. **Timeline** = Long-term
6. **Benefit** = City infrastructure
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Regular Staff Training

Hazards: E, L, V, F, SW, WUI¹, MM²

Provide regular training for all staff to practice and understand each staff person's role during an emergency.

1. **Goal(s) Addressed** = Ensure Continuity of Operations; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Executive Staff
5. **Timeline** = Short-term
6. **Benefit** = City staff and infrastructure
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Provide for Off-Site Storage of Essential Public Records

Hazards: E, SW, WUI¹, MM²

Establish a safe and protected storage system for essential public records.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Administrative Staff
5. **Timeline** = Long-term
6. **Benefit** = City of DuPont infrastructure, staff and citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Business Continuity of Operations Plans

Hazards: E, V, D, F, SW, WUI¹, MM²

Within five years, increase the number of businesses that have developed a business risk reduction and continuity of operations plan.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Business Owners Association
5. **Timeline** = Long-term
6. **Benefit** = City of DuPont Businesses, residents and the city
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be somewhat controversial.

Protection of Electronic Records

Hazards: E, V, F, SW¹, MM²

Bolster and protect the computer security system and electronic records from man-made, cyber and natural disasters.

1. **Goal(s) Addressed** = Ensure Continuity of Operations; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Administration
5. **Timeline** = Short-term
6. **Benefit** = City of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Establish a Mobile Emergency Operations Center

Hazards: E, L, V, F, SW, WUI¹, MM²

Place a fully functional and supplied Emergency Operations Center in service.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through state or federal grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire Department
5. **Timeline** = Short-term
6. **Benefit** = All
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Emergency Generator

Hazards: E, SW¹, MM²

Equip City Hall with an adequate emergency generator.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Promote A Sustainable Economy.
2. **Cost of Measure** = \$60,000
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Short-term
6. **Benefit** = Citizens of DuPont, City Hall
7. **Life of Measure** = Approx. 15 years
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Critical Resources Master List Development

Hazards: E, V, F, SW, WUI¹, MM²

Develop and include information on personnel, agencies, business, specific material, services, and human resources that can be contacted for help during an emergency. Include master list in EOC, and CEMP plans.

1. **Goal(s) Addressed** Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire and Administrative Staff
5. **Timeline** = Short-term
6. **Benefit** = City of DuPont
7. **Life of Measure** = 5 years/Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Mutual Aid Agreement Establishment

Hazards: E, L, V, F, SW, WUI¹, MM²

Continue to establish WABO building department, and public works mutual aid proposals with the Town of Steilacoom.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = Cities of DuPont and Steilacoom
5. **Timeline** = Short-term
6. **Benefit** = Cities and employees of DuPont and Steilacoom
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be somewhat controversial.

Natural Hazard Mitigation Plan: Land Use and Natural Resources

Hazards: E, L, V, F, SW, WUI¹

Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Planning Department
5. **Timeline** = Long-term
6. **Benefit** = City of DuPont
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Hazardous Material Storage Identification

Hazards: E, SW¹, MM²

Identify locations and information about hazardous substances and plan for protection of these to reduce risk of environmental pollution and life safety risk.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Short-term
6. **Benefit** = Citizens and City of DuPont Fire Dept
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be somewhat controversial.

MOU/MOA Establishment with Neighboring Agencies

Hazards: E, L, V, F, SW, WUI¹, MM²

Establish MOU/MOA's with neighboring response and recovery agencies to provide for interagency cooperation and consistency in preparedness, response and recovery.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Executive Staff
5. **Timeline** = Long-term
6. **Benefit** = All jurisdiction
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Emergency Supply Stockpile

Hazards: E, L, V, F, SW, WUI¹, MM²

Stockpile appropriate emergency supplies to support critical personnel and operations during disaster response during hazard events.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Short-term
6. **Benefit** = City and Citizens of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

ICS Training

Hazards: E, L, V, F, SW, WUI¹, MM²

Within three years, complete required Homeland Security training for all city staff and departments.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
4. **Lead Jurisdiction(s)** = City of DuPont – Fire and Police Department
5. **Timeline** = Short-term
6. **Benefit** = City of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Implementation of Revised Comprehensive Emergency Management Plan

Hazards: E, L, V, F, SW, WUI¹, MM²

Within one year develop emergency procedures as identified in the revised Comprehensive Emergency Management Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Short-term
6. **Benefit** = All jurisdictions
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Cross Training of City Staff for Disaster Recovery

Hazards: E, L, V, D, F, SW, WUI¹, MM²

Within two years have at least two staff members trained in FEMA disaster recovery processes, including the documentation process during the event.

1. **Goal(s) Addressed** = Ensure Continuity of Operations.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets and grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Administrative Staff
5. **Timeline** = Short-term
6. **Benefit** = City of DuPont
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would benefit those affected, with no adverse reaction from others.

Coordination of EOC Support during Civic Center Construction

Hazards: E, L, V, F, SW, WUI¹, MM²

Coordinate and ensure communications wiring, seismic mitigation, and other construction requirements are implemented to support the internal Emergency Operation Center in the Civic Center Building.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont
5. **Timeline** = Long-term
6. **Benefit** = The community and neighboring communities
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Public Education Mitigation Measures

Pandemic Flu/Communicable Disease Crisis Training

Hazards: MM²

Train all city staff on contagious disease, pandemic flu prevention and plan within two years.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budget and grants.
4. **Lead Jurisdiction(s)** = City of DuPont - Emergency Management
5. **Timeline** = Ongoing
6. **Benefit** = All jurisdictions and infrastructures
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be somewhat controversial.

Public Education for Gas, Water, Electricity Shut-off/Safety

Hazards: E, L, V, F, SW, WUI¹, MM²

Develop public education and Public Service announcements for gas, water and electricity shut off and safety in using power generators.

1. **Goal(s) Addressed** = Protect Life and Property; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = Funding could be obtained through local budgets.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire and Emergency Management
5. **Timeline** = Ongoing
6. **Benefit** = Citizens
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

All Hazards/Threat Community Preparedness Training

Hazards: E, L, V, F, SW, WUI¹, MM²

Within three years educate 30% of the community on threats, hazards and in preparedness training.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire and Emergency Management
5. **Timeline** = Short-term
6. **Benefit** = Citizens of DuPont and City Services
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Public Comprehensive Emergency Management Plan Education

Hazards: E, L, V, F, SW, WUI¹, MM²

Within five years, educate 50% of the citizens on the Comprehensive Emergency Management Plan.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire Department and Emergency Management
5. **Timeline** = Long-term
6. **Benefit** = Citizens of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Home Preparedness, Emergency Evacuation and Shelter in Place Community Training

Hazards: E, V, F, SW, WUI¹, MM²

Distribute information to the public that explains home preparedness, emergency evacuation, and shelter in place procedures.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont – Fire and Emergency Management
5. **Timeline** = Ongoing
6. **Benefit** = Citizens
7. **Life of Measure** = Perpetual
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Formal Citizen Emergency Preparedness Programs

Hazards: E, L, V, D, F, SW, WUI, MM

Implement formal training programs such as Map Your Neighborhood, PC NET, or other training program for citizens who are interested in participating.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire and Emergency Management
5. **Timeline** = Long-term
6. **Benefit** = Citizens of DuPont
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Wildland Urban Interface Fire Awareness and Training

Hazards: WUI¹

Implement Wildland urban interface fire awareness and training, and demonstration ability.

1. **Goal(s) Addressed** = Protect Life and Property; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
2. **Cost of Measure** = TBD
3. **Funding Source and Situation** = No potential funding sources can be readily identified.
4. **Lead Jurisdiction(s)** = City of DuPont - Fire Department
5. **Timeline** = Long-term
6. **Benefit** = Citizens and Fire Dept.
7. **Life of Measure** = Varies
8. **Community Reaction** = the proposal would be endorsed by the entire community.

Endnotes

¹ Hazard Codes:

Where necessary, the specific hazards addressed are noted as follows:

A:	Avalanche
E:	Earthquake
F:	Flood
D:	Drought
T:	Tsunami
V(L OR T):	Volcanic (lahar or tephra-specific)
SW:	Severe Storm (wind-specific)
L:	Landslide
WUI:	Wildland/Urban Interface Fire
MM:	Manmade to include terrorism
ALL:	All hazards, including some man made. Where only natural hazards are addressed, it is noted.

² While this Plan is strictly a *Natural* hazard mitigation plan, where a measure stems from a facility recommendation (Infrastructure Section) that deals specifically with terrorism, the mitigation strategy will use that analysis. Other measures, such as those that deal with multi-hazard community preparedness or recovery planning, mitigate man-made hazards and are noted as such. It is not the intent of this notation to imply that all measures were analyzed with regards to man-made hazards or that measures were identified with that in mind. Rather, the notation merely illustrates the potential on this template for the inclusion of man-made hazard analysis.