

# After the Storm: Subtle to Severe

# **Storm Preparation and Response**





### Larry Maginnis- Urban Forestry Supervisor





ISA Certified Arborist – Municipal Specialist
ISA Certified Tree Worker Climber Specialist
ISA Certified Tree Worker Aerial Lift Specialist
ISA Tree Risk Assessment Qualification
ASCA Consulting Academy - Graduate
Municipal Foresters Institute-Graduate
B.S. Forestry -University of Montana







# City of Portland – Urban Forestry Division

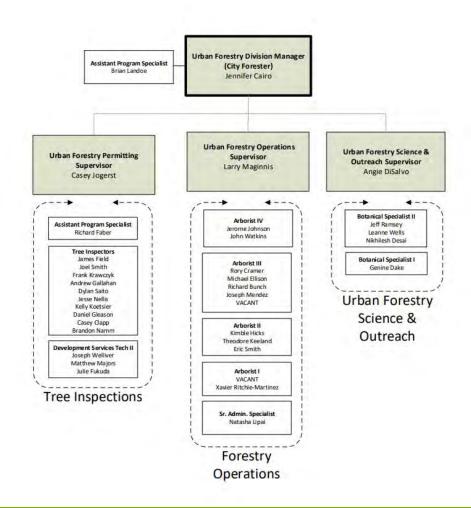


- 145 Square Miles
- 50-1188' Elevation
- 4851 Miles Of R.O.W.
- 218,610 Street Trees
- 3+ Million Park Trees
- ~140 Developed Parks
- ~100 Undeveloped Parks

### City Of Portland Structure as of September 2018 Amanda Fritz Nick Fish Dan Saltzman Chice Eudah Commissioner Commission Ted Wheele Commissione Commisioner Mary Hull Cabellero Position 2, Position 3, City Auditor Position 1. Mayor Position 4. Public Utilities Public Works Public Affairs **Public Safety** Portland Bureau Bureau of Bureau of Bureau of Office of Equity Operations Fi of Emergency Bureau of Regional Arts & rks & Recreati pviroament Development Planning & Prosper Portland ureau of Emerseno Numan Rights Strategies Division Fire & Rescue Transportation Colture Council Audit Services Services Communications Kta Selley. Trang Lam, Asst Services Sustainability Comberly Branam Koffi Dess Tracy Reeve Atke Myers, Chir Courtney Chris Wanner, Jeff Hawthorne Karl Guy Interim Director Mike Jordan Rebecca Esaul usan Anderson Director ich Cozzie: Directo loterim Directo Director Patterson, Interim Director Interim Director Director Direction Director terim Directo Fire B. Police using Burea Inspection Social Equity. Engineering Disability and Engineering Services Eguity & Inclus Services Sharmon Relations Policy & Administration Relations etirement Fund E Civic Life Amanda Lamb, Deputy Move Stuhr Services Development Ken Burns. teve Townsen, Chie Art Hendricks interim. Dan Callahan Dizzbeth Communication Keren Februare Director Jennifer Yocan Bill Ryan Bobby Lee Division Chief Sam Hutchinson, Engineer Suk Rhee, Directo Auditor Cote Director Edwards Mayra Arreola Director Health, Safety & Emergency Watershed Police Sureau riternational HR & Workforce Development & Policy, Planning E City Recorder Deputy Directo Environment Operations 911 Operations Operations Services neile Outlaw Relations Development. Investment Kirr Projects Toni Anderson. Gabriel Solmer Heather Randol Kim Tallant Tom Williams Lisa St Heleo Wichelle Rodrigue iane Bacchier Chief Chido Dhirway Sean Murray Strauman Art Pearce Sr Deputy Auditor (Security) **Division Chief** Pollution Public Records Warkforce Support Deputy Chief Deputy Chief Engineering evention Sy Plan Review Deputy Chief information Crime Prevention Management/Archives Services & Development Logistics Special Ops ermiting & Transit Andy Peterson Officer Teresa Eliott Bob Day Meg Junez Diana Banning. Marvieta Margaret Eyans Jay Gun Sara Boone Don Russ Christine Leon Redding Chris Burley Deputy Director Finance, Property & Permitting Investigations Drugs & Vice, Family Services Fire Prevention Finance 8 Tech Finance Assessments & Liens Services Branch pport Service Services ve Hendrie Nate Takara, Fire Operations Army Archer-Masters David Jami Resch Mark Whitaker Dan Schmidt Cecella Huynh Steve Berndt Commander Captain Captain Marshall Tara Wastak John Dutt (Customer Svc) Kuthnhausen Asst Chief Business Coerations Tactical. Fire Alarms/Plan Assets & Evidence Code Enforceme Business Operations Central Services Operations & Beanch Operations Review Austrance Services Cannabis Program Hearings Office Services. Karl Schimel, Asst Development Chris Wanner Galina Burley Finance Ryan Lee, Ass Anny Shearer Gary Royles Asst Greg Wong Jeramy Patton Brandon Goldner Melvin Odeo-Orr lan Kruger auren McGunn Jonas Biery Eishad Hajtyey Chief Acting Captain Fire Marshall Captain Community B. Independent Police **North Precinct** Central Precinct East Precinct Resource Planning & Detigi Construction Equity & Policy Harhormaster Susmess Operation Parking Services Neighborhood Review Mike Krantz, Bryan Parman Chris Uehara. Brett Horner Dale Cook Dora Perry Ray Pratt Deborah Marrison Dave Berson volvement Cente Constanting Severe Eddie Campbel Commander Commander Commander Dianne Riley Director Office of Traffic Divisio Bureau of Utility Custom Capital Emergency Mg Annagement. Abset Managemen Stephanie Technology Livability Programs Ombodsman Projects Tashia Hager, Liani Reyna, Finance Serlinda Summers Chris Silkie Franco. Services Kenya Williams Margie Sollinger Kathy Kochi auren McGuire Captain Sergeant Tom Rinehart McGee, Director Deputy CAO Acting Captain leff Baer CTO CAO Bureau or Training Records Division Personnel Portland Building Recreation ervices Branch Printing E. nmunity Cent Strategies Golf Division Jenn Division Reconstruction Facilities eighbarhood Office Financial Svcs. Distribution Ourelle Terri Davis John Zoller David O'Longaigh Erica Hurley Hollandsworth Vincent Woods Project Ty Kovetch Eileen Argentin Chief Jennifer stthew Spitulsk Victor Salinas Singleton Commande Reed, Manage Mgr Kristin Well's Cooperman, CFO Strategic **Prof Standards** North Portland Arts, Culture E Transit Division PIR Services Firet Sports and Amatics Division Treasury Revenue Neighborhood Special Events Sara Westbrook Michelle Kirby Maximo Behrens FC Moelle man Ossenko Acting - Jeff Brigid O'Callagha Thomas Lannon Vacant Services Spo Pak Commander Controller Captain Bell. Captain Tom Griffin-Valade Grants Risk Management Land Stewardship Westside Länds Eastside Land Land Services Procurement Deborah Leopold-Rachel Felice Andre Ashley Lester Spitler James Allison Wike Carr Sheila Black-Crais Hutchins Urban Forestry Permitting Cases Operations Outreach Larry McGinnis Jennifer Cairo Jogerst Angle DiSalvo



### **PP&R Urban Forestry Division**







Updated tree rules are in effect for properties across the city.

STREET TREES - Tree removal, planting and most tree maintenance in a curb or planting strip requires a permit. Planting and pruning permits are free

YARD TREES - Removal of large yard trees requires a permit. Zoning restrictions may exist for tree removal, depending on where you live.

REPLANTING - Planting new trees is often required when a tree is cut so that future generations can enjoy the benefits of our urban forest. A mitigation fee may be required if replanting is not feasible.

DEVELOPMENT - Tree rules and permitting requirements apply to both construction and non-construction situations.

PUBLIC SAFETY IS ALWAYS FIRST - Any tree that becomes dangerous will be permitted for removal. Call 503-823-TREE (8733) 24 hours a day if there's a street tree emergency in your neighborhood.

ENHANCING OUR URBAN FOREST - The City's trees and the urban forest are continually growing and changing. Portland's tree rules help improve the forest, maintain our heritage and increase the benefits trees provide all Portlanders. The rules also help parts of Portland with fewer trees. Fees collected will fund tree plantings in places where they are needed.

### 'We're here to help

Knowledgeable city staff are ready to help. Contact us to learn if you need a permit and find other tree resources.

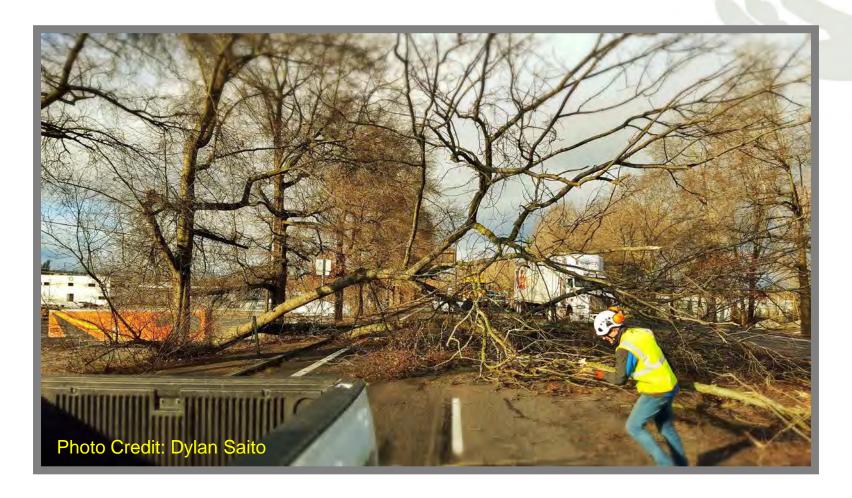
Visit www.portlandoregon.gov/trees

Email trees@portlandoregon.gov

Call 503-823-TREES (8733)

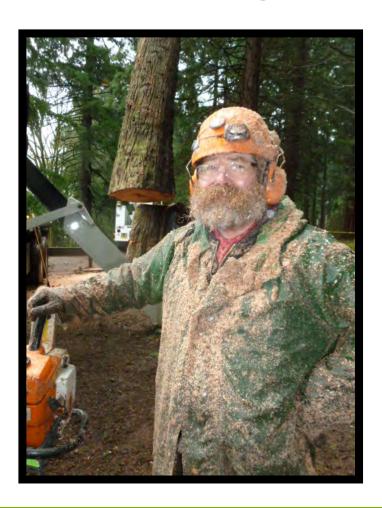


# 24/7 Emergency Response - Subtle





### **Storm Staffing**



- 12 Arborists
- 10 Tree Inspectors
- 3 Intake Personnel













### **Before The Storm - Setting the Tone - Severe**



- Forecasting
- Agency Communications
- Review SOP's and Re-Defining Responsibilities
- Internal Staffing and Training
- Equipment Preparations
- Mutual Aid Agreements
- Emergency Contracting



# Forecasting - Don't Always Believe the Hype



- Weather
- Crime
- Crime Prevention

# **PORTLAND SNOW STORM 2016**

WE WILL REBUILD

### Portland Parks and Rec

Web Access: <a href="https://www.nw-weathernet.com/PortlandParksandRec/index.php">https://www.nw-weathernet.com/PortlandParksandRec/index.php</a>

24/7 Toll Free: 1-800-937-8676

Web Click Options RADAR SATELLITE Obs

Forecast Date: Tuesday, November 27, 2018

Time Issued: 10:45 AM

Forecaster: mw

### Discussion

Expect scattered showers this afternoon into this evening with breezy SSW winds, but no "high" winds are expected. Showers and breezes will taper off later tonight, then looks mainly dry early Wednesday morning, before showers regenerate again late morning into Wed PM into Wed evening. Showers end by sunrise Thu, then looks dry for the whole workday.

Expect more showers in the Friday & Saturday timeframe, but no major lowland concerns with dry windows. It looks like a dry and cooler weather pattern sets up Sunday into early next week with widespread light overnight freeze/frost concerns.

### West

	Weather	Temp (F)	Humidity (%)	Wind (mph)	Rainfall (inches)	Snow/Ice (inches)
This Afternoon	Mostly cloudy. Occasional showers. Breezy around showers.	Mid 50s	80- 100%	SW 15-25	0.10 - 0.20	
Tuesday night	Partial clearing at times. Decreasing showers.	Low 40s	80- 100%	SW 10-20 evening	0.10 - 0.20	
Wednesday	Mostly cloudy. Showers increase.	Low 50s	80- 100%	SE 10-15	0.10 - 0.20	
Wednesday night	Partial clearing. Showers decrease.	Mid 30s	80- 100%	S 5-15	0.15 - 0.25	
Thursday	Partly cloudy. Dry.	Near 50	70-100%	SE 10-15		
Thursday night	Increasing clouds. Looks dry.	Upper 30s	70- 100%	SE 5-10		



# **Useful for Managing Resident Expectations**

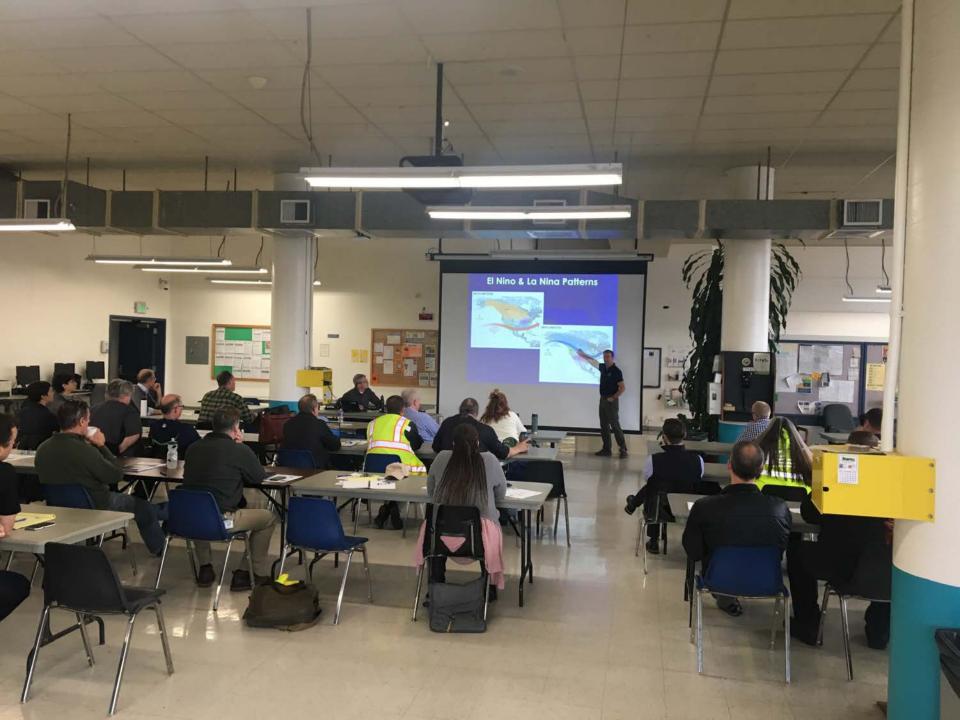


- Extends Beyond the Health of the Trees
- Ensures the City will
   Continue Functioning
- Traffic Disruptions
- Timeliness of Emergency Services



### **Winter Storm Coordination Meeting**







### **Review SOP's Define Roles**





# URBAN FORESTRY and PORTLAND BUREAU OF TRANSPORTATION STANDARD OPERATING PROCEDURE: EMERGENCY TREE RESPONSE IN PUBLIC RIGHTS-OF-WAY

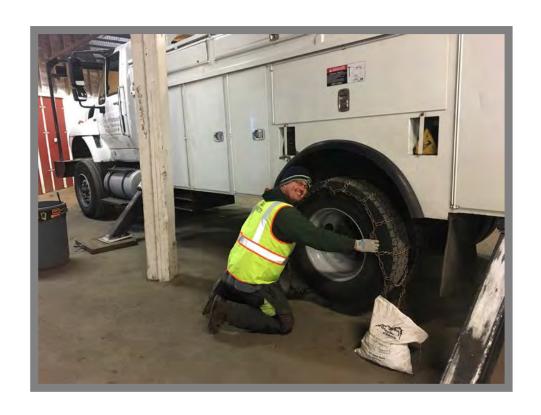
Portland Parks and Recreation Urban Forestry (UF) is the City of Portland's "first responder" to reports of trees blocking or imminently threatening safe use of public rights-of-way, and resolves tree issues in or imminently-threatening transit ways. The Portland Bureau of Transportation (PBOT) is responsible for operation and maintenance of the City's rights-of-way. This protocol describes how UF and PBOT communicate and coordinate in order to address tree emergencies in City rights-of-way in a timely and efficient manner.

Reports of tree-related road hazards are received by both UF and PBOT Dispatch. Though UF is the first responder specifically to tree-related emergencies, the PBOT Maintenance crew is authorized to respond to road obstruction needs at any time.

Business hours 7:00am - 3:30nm



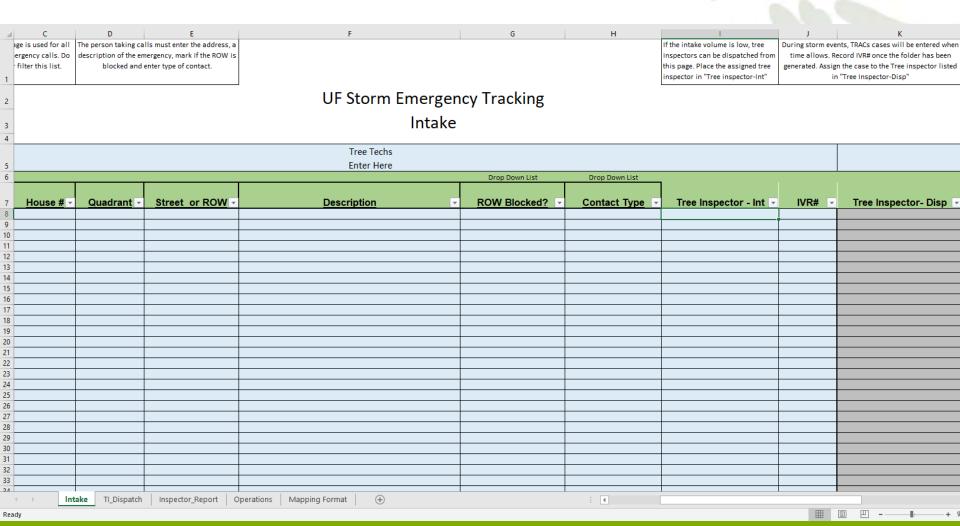
### **Before the Storm Season**







### **Storm Tracker Spreadsheet**





### **UF Operations Certs and Cross Training**

### Arborist IV (Crew Leader) (3)

ISA Certified Arborist
ISA Certified Tree Worker CS
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP

Pesticide Applicators License First Aid/CPR/Defib

Work Zone Traffic Control Certificate Class A CDL

### Arborist III (4)

ISA Certified Arborist
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDI

### Arborist II (3)

ISA Certified Arborist
ISA Certified Tree Worker ALS
Crane Certification
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL

### Arborist I (2)

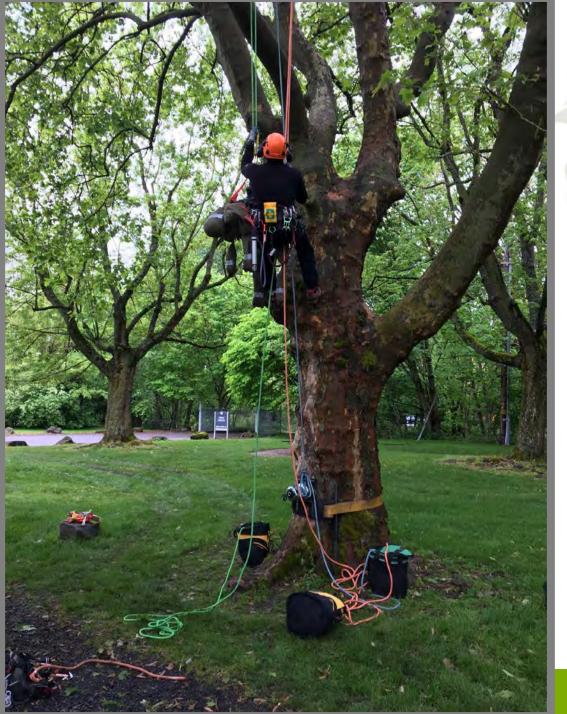
TCIA-EHAP
Pesticide Applicators License
First Aid/CPR/Defib
Work Zone Traffic Control Certificate
Class A CDL















# **Outfifting of Equipment**





# **Mutual Aid Agreements**









# **Emergency Services Contract**





# **Wood Waste Management**













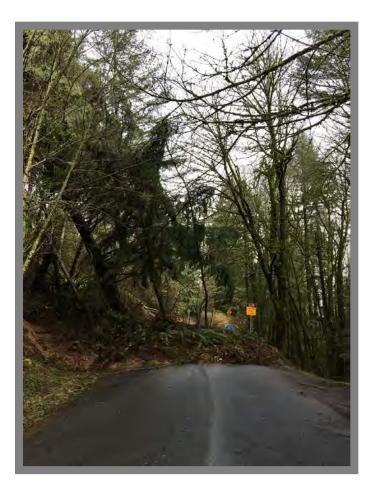








#### Portland Winter 2016-2017



- 57" of Precipitation Avg. 42
- 147 Days of Rain

- October Wind Storm
- December Ice Storm
- January Snow Storm
- Landslide Season



#### **October Wind Storm**

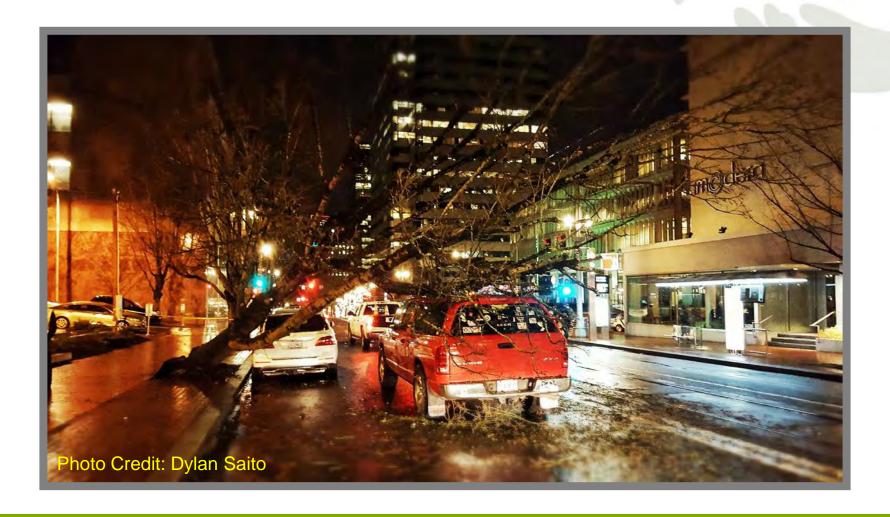






#### **December Ice Storm**

#### 432 Incidences





## **January Snow Storm**

# 348 Incidences

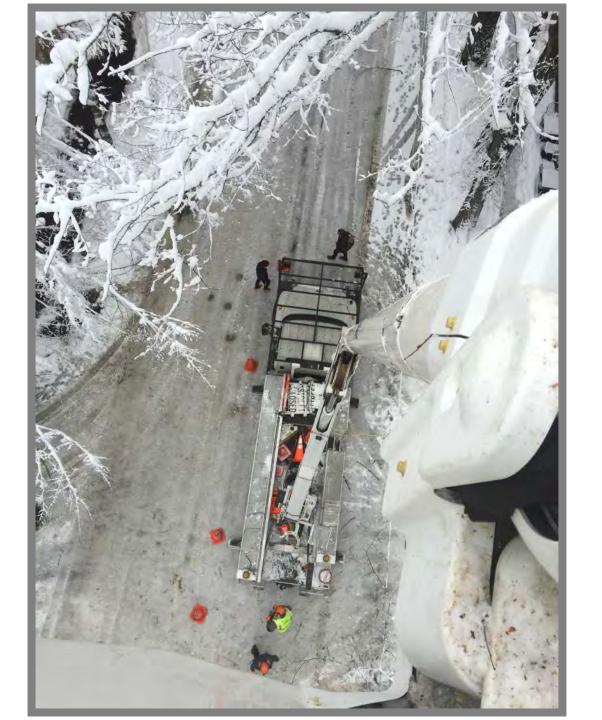
















## Landslide Season - 71 Reported (avg. 20 annually)























# Mother Nature Wants You to Fail - Be Prepared









#### **Areas For Improvement**



- **Asset Management Software**
- Shifting of Responsibilities
- ICS Structure and Training
- **FEMA Support-Documentation**



## **Questions and Discussion**

