Climate Resilient Community

Nestor Herrera
Why?

- Climate Change
- Hot Summers
- Unforeseeable Weather
- Colder Winter
Research

- Improve Protection
- Enhance Habitat
- Could use Shade
- Connectivity
- Vegetation
- Maintenance
- Reduce Fire hazards
Project Goal

- Fire Protection
- Natural-based Solution
- Enhance Attractiveness
- Promote Healthier lifestyle/Recreation
- Ponderosa Pine will provide protection around town
- Be a buffer against winter winds and heat waves
- Provide Habitat
- Have other trees around stream

- Swale
  - Create walkway
  - More connectivity
  - Promote recreation
  - Firewise vegetation

- Zoning will provide better protection on residential
- Provide an attractive yet Firewise landscape.
- Adaptive plants in the area
Ponderosa Pine

- Best choice for fire adaptation
- Defensible Wood
- 250 tree/acre
- Slow wind speed
- Maintenance is important!
Ponderosa Pine

- Approx. 10 to 20 ft of Space
Ponderosa Pine

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- Lower chance of fire climbing up
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- Branches at least 10 ft apart
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- Branches at least 10 ft apart
- Heat can pass through
Town Vision

- Trees 35 ft + from houses
- Approx. 25 ft away
- Maintenance regularly
- Connectivity
- Native plants
Town of Malden - Swale/Sidewalk
Town of Malden

- Water will be drained
- The rocks helps slow down the speed of the water
- The gravel walkway is quite porous

- Vegetation will help absorb the water
- Will enhance attraction
- Trees will provide shade
Gravel Walkway

- ¼ - ½ inch gravel rocks
- Wheelchair Accessible
- Porous
- Eco-Friendly
Planting

- Native Plants
- Drought tolerant
- Firewise
- Pollinator
- Beneficial
Local Food – Fruit Trees/Gardens
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- Fruit Picking
- Community bonding
- Learning experience
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- Economy
- Bake sale
- Beverages
- Wine
- Restaurants
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Residential: Fire-Wise Zoning

- Firewise Spacing
- Fire Resilient Plants
- Shade
- Maintenance
Residential: Fire-Wise Zoning

Zone 1
- 0 – 10 ft From House
- Hardscape
- Small Fire-Resistant Plant (Well Moist)
- No Trees or Shrubs
Residential: Fire-Wise Zoning

Zone 1
- 0 – 10 ft From House
- Hardscape
- Small Fire-Resistant Plant (Well Moist)
- No Trees or Shrubs

Zone 2
- 10 – 30 ft
- Trees Pruned At least 10 ft From the Ground
- Tree Branches At Least 10 ft From House Roof
- Single Shrubs
- Spread Out
- Well Maintained
- Eliminate Ground/Ladder Fuel
Residential – Hot Climate

Hot Climate
• Trees around lots will provide shade
• Avoid having dry vegetation
Residential – Rain Climate

Rain Climate
- Plants in the area will help absorb the water
- Hardscape
Thanks