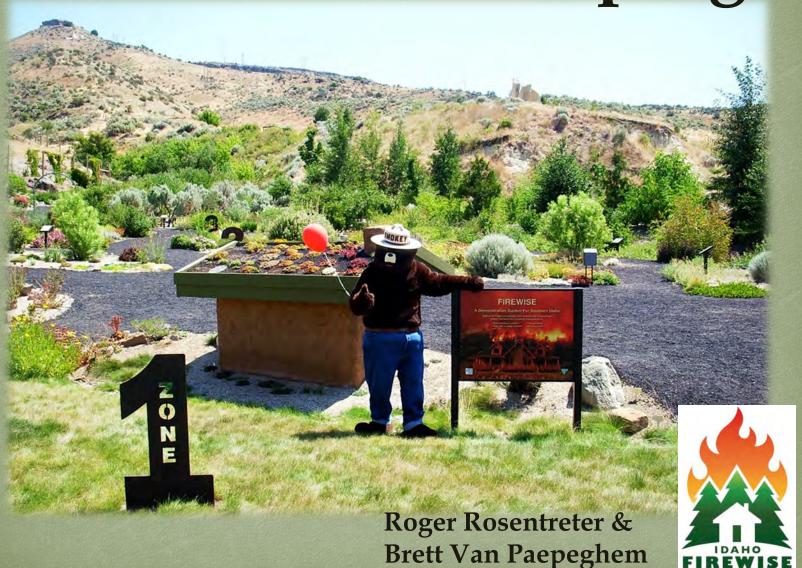
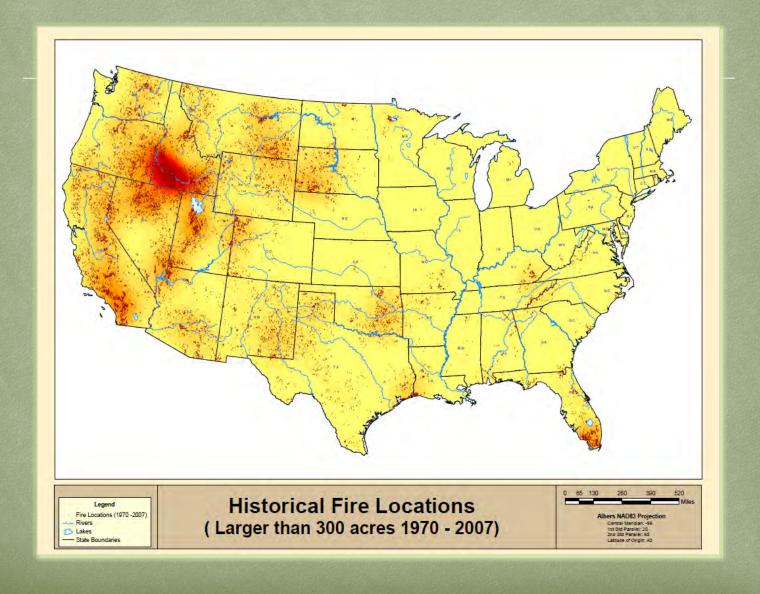
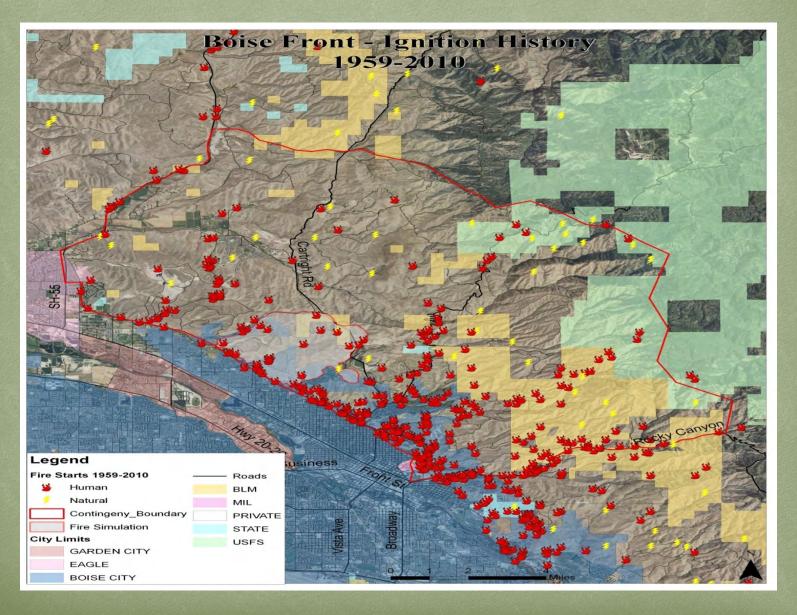
Firewise Landscaping



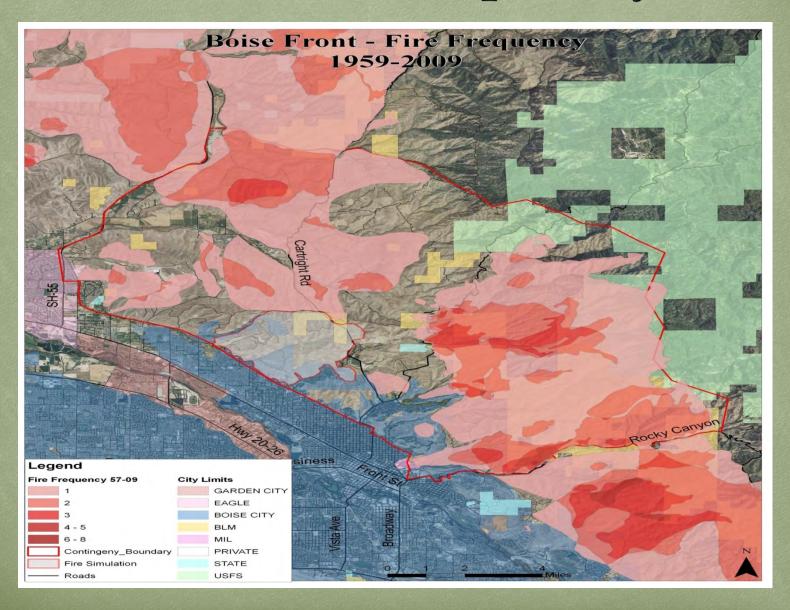
Local Conditions



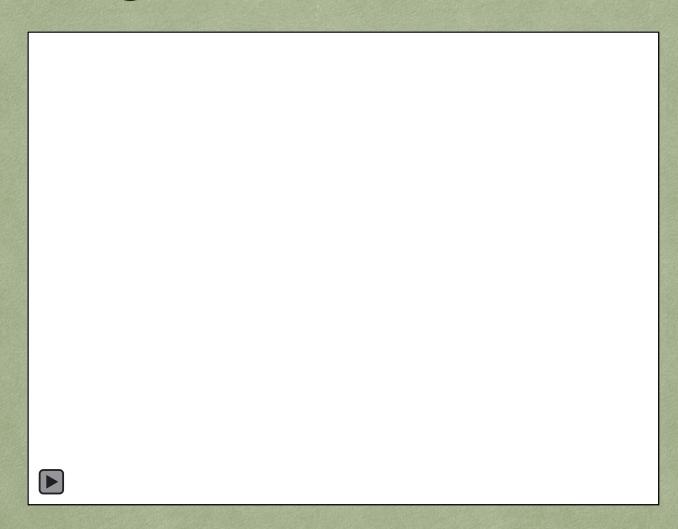
Historical Ignitions



Wildfire Frequency



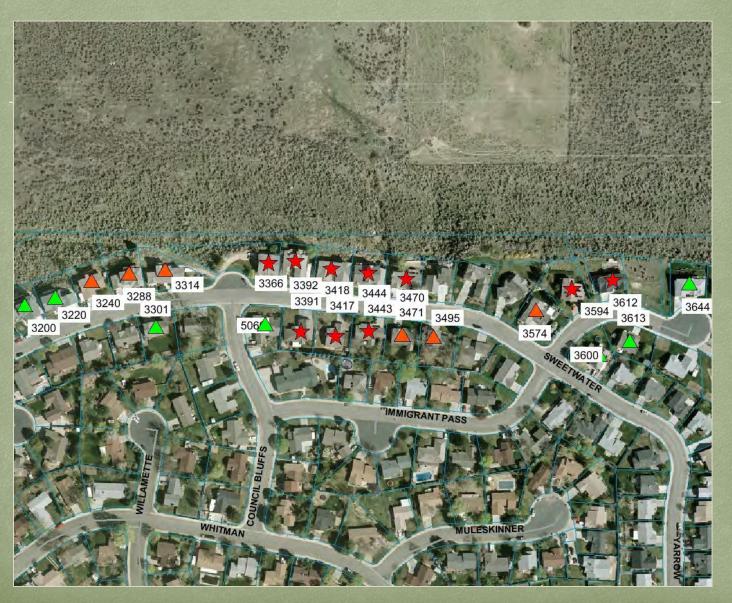
Oregon Trail Fire - 2008



Oregon Trail Fire Losses

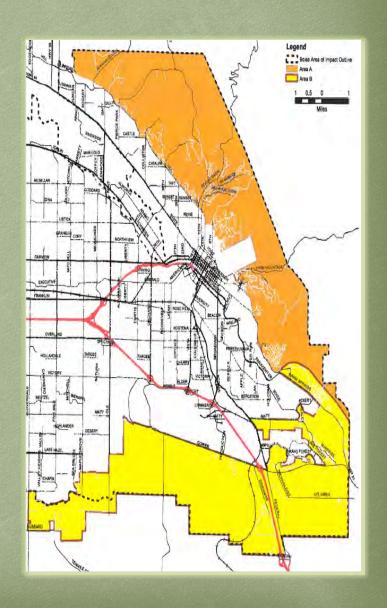


Oregon Trail Fire Losses



Codes and Ordinances

- Older non-conforming neighborhoods
- IWUIC
 - Adopted by Ada County and in part by the City of Boise
- Title 7 Boise City Ordinance
 - fire protection plan
 - defensible space
 - home hardening
 - revision process
 - https://www.planningforhazards.com/wildland-urbaninterface-code-wui-code



Create Survivable Space



Start with the house itself

Immediate Zone (1) The home and the area 0-5'

- ✓ Clean roofs & gutters
- Clean debris from attic vents & install 1/8" metal screening
- Replace or repair loose or missing shingles



Hardening the Home



Use class "A" fire rated roofing & siding

Potential Fuels for Fire

*Anything that can burn

- Decking
- ✓ Firewood
- ✓ Planters
- ✓ Doormats
- ✓ Patio Furniture
- ✓ Propane Barbeque
- ✓ Other Structures







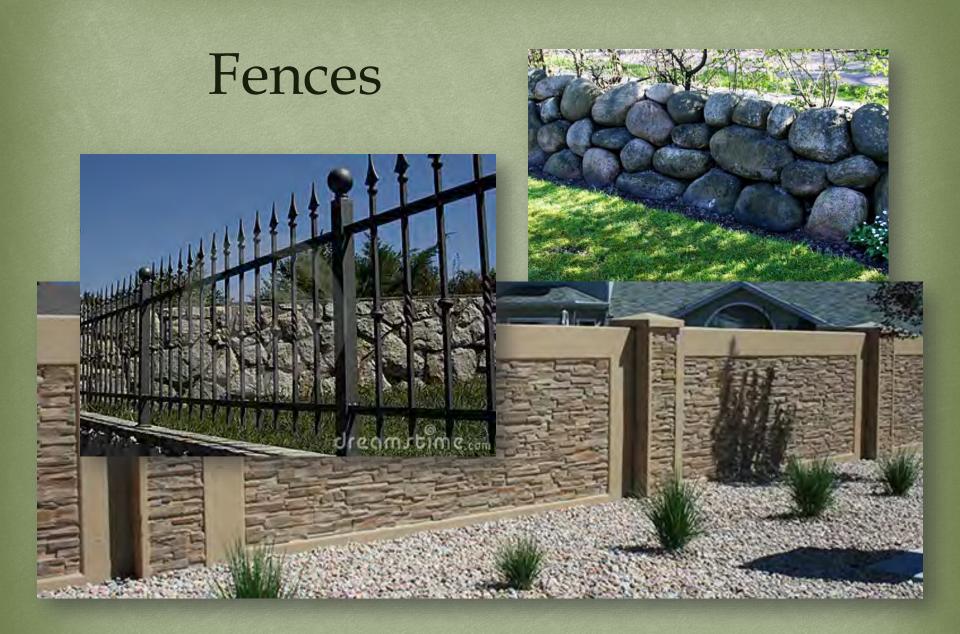


Screen or box-in areas





...below decks

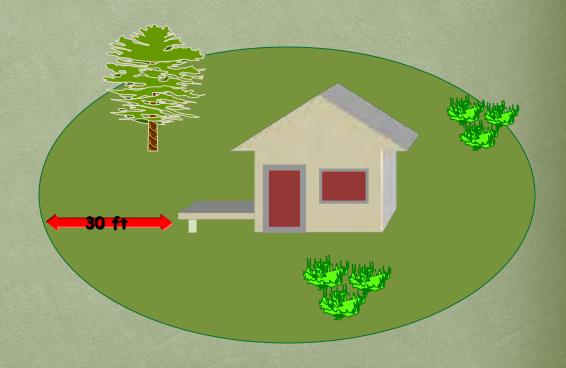


If it touches the home...it is considered part of the home

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Intermediate Zone (2) 5-30' from the farthest point of the home

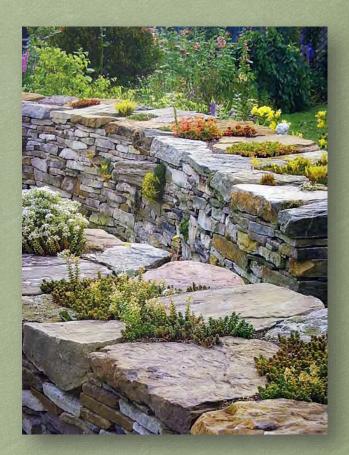
- Use low-growing, low ignition plants and avoid conifers
- Keep plants well pruned
- Remove dead plant material
- Mow or weed-eat grasses
- Use gravel mulch
- Keep well irrigated
- Create fuel breaks



Hardscapes



Minimize continuous fuels



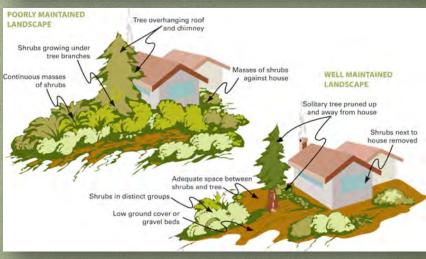
Create a "Catch"



Intermediate Zone (2) 5-30'

- Remove ladder fuels
- ✓ Prune trees up to 6-10′
- ✓ 18' **minimum** between crowns
- ✓ Mature canopy at least 10′ from home
- Remove vegetation near propane tanks
- Plant in small clusters to break up continuity of vegetation





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Extended Zone (3) 30-100' out to 200'

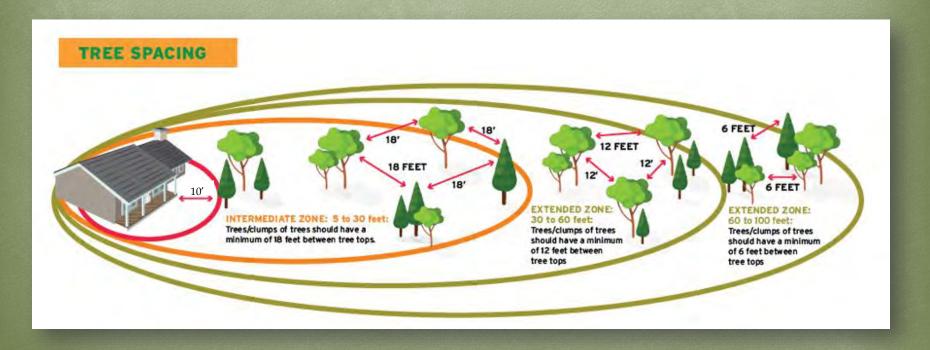
- ✓ Dispose of heavy accumulations of ground litter/debris
- Remove vegetation adjacent to any outbuildings
- Remove dead plant and tree material





Tree Spacing

- ✓ Trees 5-30′ from the home at least 18′ between canopy's
- Trees 30-60' from the home at least 12' between canopy's
- Trees 60-100' from the home at least 6' between canopy's





Plant Chemistry Is Important



Avoid plants that contain volatile oils, resins and terpenes, which ignite easily and burn hot!

Some Natives are Extremely Flammable

Artemisia tridentata

Purshia tridentata

Juniperus occidentalis

Cercocarpus ledifolius

Achillea millefolium

Fallugia paradoxa

Chamaebatiaria millefolium

Pinus spp.

Sagebrush

Bitterbrush

Western juniper

Curl-leaf mountain mahogany

Yarrow

Apache plume

Fernbush

Pine

Any large statured native grasses

Xeric but... Not if highly flammable

- Fine fuels ignite easily
- ✓ Ornamental Grasses are fine fuels



Xeric but...Oil content

03

Perovskia atriplicifolia

Russian Sage



Saponin

- ✓ Is an organic chemical found in some plants
- ✓ Plants that contain saponin can usually be worked into a lather
- ✓ Soap is a fire suppressant



Hydrangeaceae (contain saponin)



Syringa, Mock Orange (Idaho State Flower)

'Cultivars'





'Buckley's Quill' Mock Orange

Philadelphus hybrid

(4 - 5 feet tall)

Caryophyllaceae (contain saponin)

Dianthus gratianopolitanus



'Firewitch' Dianthus

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Caryophyllaceae

Gypsophila spp.



Baby's Breath

Agavaceae

Yucca spp.



Soapweed Yucca

Rhamnaceae (contain saponin)

Ceanothus americanus





New Jersey tea

Rhamnaceae continued...

Not all species in the Genus Ceanothus are suggested

Ceanothus velutinus, Snowbrush



High in oil content

T' 1

Fabaceae (contain saponin)

Lathyrus odoratus



Sweet pea

Saponaria ocymoides



Pectin

Malus spp.



Crabapple
*Fruit trees are a good choice



'Lipstick' Strawberry

Caprifoliaceae (contain pectin and saponin)

Symphoricarpos albus





Snowberries

F

Caprifoliaceae continued...



Euphorbiaceae (contain saponin & latex)

Euphorbia characias E. epithymoides



Spurge

*Note: many Euphorbia species are invasive

High Moisture Content





'Angelina' Stonecrop

Sedum rupestre

Hardy Ice Plant
Delosperma cooperi

Hens & Chicks



Sempervivum spp.

Cactus



Opuntia spp.

Compact Growth Form Use of 'Cultivars'



Sand cherry

Prunus pumila (6 feet tall)



'Pawnee Buttes'

Sand cherry

(3 feet tall)

© Plant Select (Colorado Based)

'Pawnee Buttes'



'Spitfire' Quince



Chaenomeles speciosa

Oak Leaf Sumac



Rhus trilobata (6 – 12 feet tall)

Sumac 'Cultivars'





'Autumn Amber' Sumac

Rhus trilobata

(2 feet tall)

'Gro-Low' Sumac

Rhus aromatica

(3-4 feet tall)



Plant Types

Succulents	More Fire Resistant
Ground Covers	
Turf	
Vines	
Annuals	
Perennials	
Deciduous Trees	
Shrubs	
Grasses	
Conifers	Less Fire Resistant

Plant Attributes & Rating Fire Resistance

✓ Moisture Content

Mineral Content(Soap, Salt, Pectin, Latex)



✓ Volatile Oil / Resin Content



V Height / Compactness





Ranking Attributes

Mineral Content

(Soap, Salt, Latex, Pectin)

- ✓ High
- ✓ Medium
- ✓ Low



Soap lather from *Philadelphus* leaf





'Buckley's Quill' Mock Orange Philadelphus hybrid

Moisture Content	Moisture Score	Mineral Content	Mineral Score	Height x Width	Height / Compactness Score	Volatile Oil/Resin Content	Volatile Score	Score For Fire Resistance
High	2.5	High	2	4' x 4'	2	Low	2.5	9

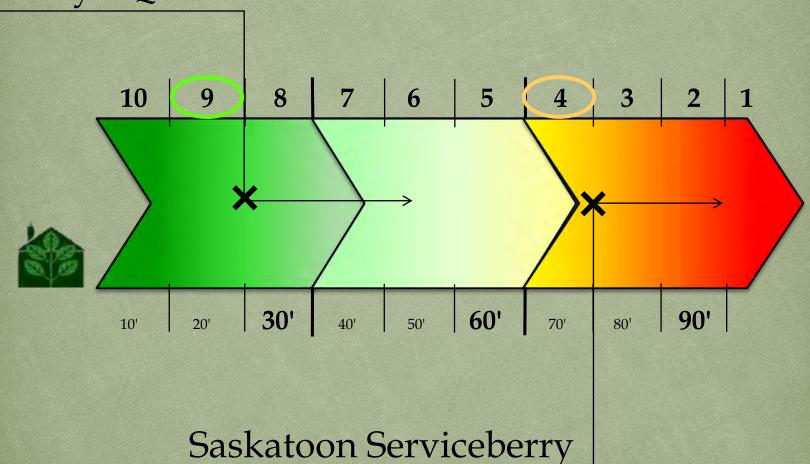


Saskatoon Serviceberry

Amelanchier alnifolia

High	2.5	Low	0	20' x 15'	-1	Low	2.5	4	

'Buckley's Quill'



Flammable Plant Alternatives

PLANT THIS



'Autumn Amber'
Sumac

Rhus trilobata



NOT THAT



Creeping Juniper

Juniperus horizontalis

Contains resins



Alternatives

PLANT THIS



Rocky Mountain Penstemon

Penstemon strictus



NOT THAT



Russian Sage

Perovskia atriplicifolia

Contains oils



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'Walker's Low' Catmint



Nepeta x faassenii



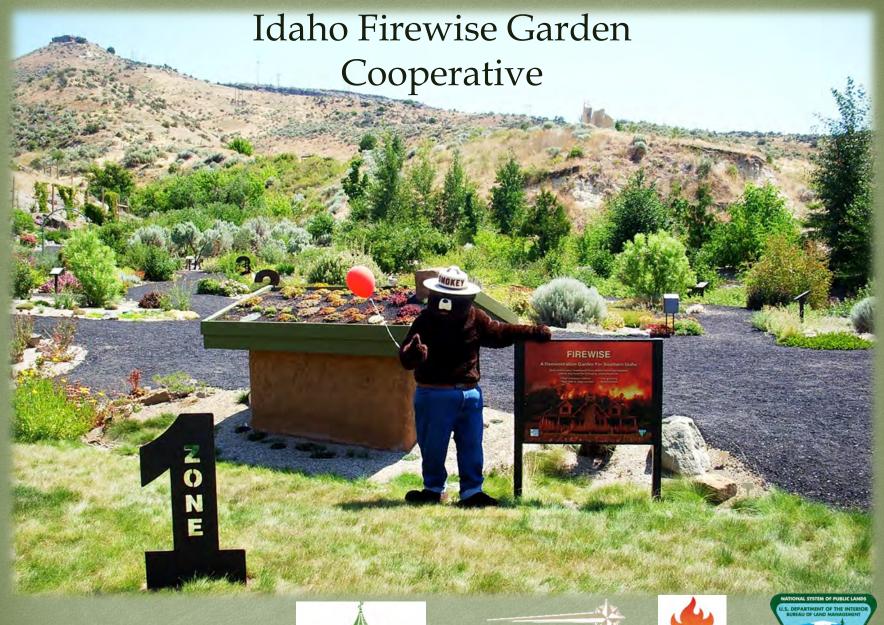


Firewise Landscaping Makes A Difference

There are not enough fire engines to be at every home during every wildfire.



Firewise landscaping and building materials may be the only defense for a home.











In summary

- Fire-resistant does not mean fireproof
- Avoid invasive species when selecting plant materials
- Vegetation clearance, Firewise construction and roof composition are key to ignition prevention

It is not a guarantee!

For More Information

Firewise Websites:

idahofirewise.org

nfpa.org

fireadaptednetwork.org

nifc.gov