

BIGHORN BASIN FIRESWISE COMMUNITIES

#### ISSUE #6-WINTER 2012

#### **GREYBULL RIVERSIDE PROJECT MAKING PROGRESS**

Work on the Town of Greybull river project started in November and was completed by Christmas. Some of the area treated had burned in the 2007 Dike Fire. The project thinned trees, eradicated Russian olive and salt cedar, and reduced fuels on both the burned and unburned acres. Work was done by a local contractor using State Fire Assistance Grant funds.



Some of the project area "jungle" before treatment.



After treating an area heavily infested with Russian Olive and salt cedar.

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	In this issue:		Special points of interest:
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THE BIG HORN BASIN FIREWISE COORDINATORS ARE:

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**Big Horn County:** The County Fire Warden is Brent Godírey (307) 568-2324. The Firewise Coordinator is Chris Weydeveld, <u>cweydeveld@wytfs.com</u>, Technical Forestry Services, LLC, 6628 W. Riverside Dr. Casper, Wyoming 82604, or (307) 333-1098 (office), (307) 272-9533 (mobile).

Washakie County: Chris Kocher, Fire Warden, <u>ckocher@worlandfire.org</u>, P.O. Box 504, Worland, Wyoming 82401, or (307) 347-6379.

**Hot Springs County:** No Firewise Coordinator has yet been selected. Contact Jay Duvall, County Fire Warden, at (307) 921-1485, or <u>hscdwarden@gmail.com</u>

**Park County :** Bernie Spanogle (see below) has been appointed as the County Firewise Coordinator. He can be reached at wywc@tctwest.net. or at 307-250-9387.

**Bernie Spanogle** has been hired by the Cody Conservation District to implement a Firewise Community Program for Park County. That will complete Firewise coverage in Northwest Wyoming and the Big Horn Basin. Spanogle is retired from the US Forest Service where he was the Shoshone National Forest Resource Staff Officer which included the Fire Management program. He was also qualified as a prescribed fire specialist and a fire behavior analyst. Bernie spent 30 years as a wildland firefighter and was assigned to various positions on fire overhead teams.

Firewise coordinators from Bighorn, Washakie, Hot Springs and Fremont Counties are looking forward to coordinating and sharing their Firewise resources with Park County to better serve the public. A Bighorn Basin Firewise website is in the planning stages.

# If you have general or specific questions about Firewise, two good online sources of answers are: <u>www.firewisewyoming.com</u> and <u>www.livingwithfire.com</u>.

Do you have topics you would like included in future newsletters? Please submit your suggestions and comments to **gwynn@wytfs.com**, **cweydeveld@wytfs.com**, to Chris at any of the above phone numbers, or by mail to G. Wynn, 824 Country Club Road, Casper, Wyoming 82609.

Thanks for providing this newsletter go to the Wyoming State Forestry Division, the Big Horn County Fire Warden, the U.S. Forest Service, and the Bureau of Land Management. They provide the funding.

• This newsletter is provided as a service of your county's Firewise Coordinator. If you choose not to receive future issues, please respond to the E-mail address that delivered it, or to G. Wynn by mail.

#### **BIG HORN COUNTY FIREWISE ACTIVITIES BEING PLANNED FOR 2012:**

#### **HOUSEHOLD IGNITION ZONE WORKSHOP\***

**MOUNTAIN CABINOWNERS FIELD TRIP (POSSIBLY TWO)\*** 

DEVELOPMENT OF A BIGHORN BASIN FIREWISE WEBSITE

EXPANSION OF COST-SHARE FUNDING TO INCLUDE SOME MOUNTAIN CABIN LEASES

#### \*DATES AND LOCATIONS WILL BE ANNOUNCED IN THE SPRING NEWSLETTER

# Driveway fuel break

The driveway fuel break is intended to create clearance for a fire truck, as well as to slow the rate of spread and intensity of a wildland fire. It also is where fire suppression may more safely occur.

The clearance space in the driving area must meet these specifications:

- the horizontal clearance must be at least 12 feet
- the vertical clearance must be at least 13 <sup>1</sup>/<sub>2</sub> feet

The fuel break can be natural or man-made and must have these characteristics:

- the fuel break must extend 10 feet from each side of the driveway's centerline, creating an area that is at least 20 feet wide, including the driving surface
- the ground cover must be substantially nonflammable.
- healthy trees and shrubs must be thinned and pruned to minimize a wildfire's spread

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• the plants must be substantially free of dead material



Standards for driveways apply to driveways longer than

150 feet. If you have a long driveway, you'll need to make sure a fire truck can fit beneath

limbs and



between trees and shrubs, and create a roadside fuel break so firefighters will have a safe place in which to set up and work.







The above illustration was provided by the Oregon Department of Forestry. Their Firewise program has created several illustrations that are appropriate for the Firewise program in our area, and has given permission to use them for Bighorn Basin Firesmart.

This information was developed by Montana State University for Montana, but is applicable to Wyoming lands in the Bighorn Basin.



Fire-Resistant Plants for Montana Landscapes

# fires can damage soil and reduce its capacity to hold moisture.

This can affect plants' ability to survive. However, there are a number of groundcovers, herbaceous plants, shrubs and trees that are fire-resistant. Plants that do well in Montana are on the back page.

## ANY PLANT WILL BURN

if it is dry enough and the fire is slow enough and/or hot enough. The ability of a plant to survive a fire depends upon the speed and type of fire, the time of year, the moistureholding capacity of the plant, and the plant species.

## **CROWN FIRES**

that travel from the crown of one tree to another are often more damaging than other types because they destroy the foliage and thus reduce the plants' capacity to photosynthesize. This inability to manufacture carbohydrates weakens the plant and makes it more susceptible to subsequent winter damage and pest infestations. Young trees are often more severely affected by this type of fire than older trees.

## SLOW-MOVING FIRES

can do damage to the cambium (part of the plant responsible for its growth), often girdling or partially girdling the plant, which can lead to the death of the plant.

### HOWEVER,

new tissue grown in the following spring can allow many damaged trees to survive. Succulent plants and those full of water (for instance, in the spring), survive fires better than trees with low moisture contents. Shrubs often survive by their ability to resprout from their base.

## BURNED ORGANIC MATTER

reduces the soil's capacity to store water and fosters compaction. Fires can accelerate erosion and increase the magnitude of changes in soil temperatures.

## NUTRIENTS

such as nitrogen and some others are lost by volatilization, ash convection, and subsequent leaching after hot fires. However, the nitrogen is often replaced quickly by rain, increased soil microbial activity, and nitrogen fixation. Some nutrients are also released from burned organic matter, often making the total availability of mineral nutrients to the plants higher after the fire than before. Site quality deteriorates more on coarse sands and heavy soils than on sandy and loamy soils.

## FOLLOWING A FIRE,

prune out dead branches and be sure the remaining plants are watered well. There may be no reason to add huge quantities of fertilizer.

## ON THE BACK PAGE

is a list of plant species adapted to Montana that have been noted to be fire resistant. Not all species on this list will grow in all parts of the state. Refer to "Choosing Trees and Shrubs for Montana Landscapes" (Montana Extension Bulletin EB 123), "Choosing Herbaceous Perennials and Biennials" (MontGuide 9903) and "Growing Annual Flowers" (MontGuide 9501) for more information on growing site conditions for selected species. We have also avoided categorizing plants as "fast-growing" or "slowgrowing" since this can be misleading. There are too many variables that can affect the rate of growth of a plant.

Some entries include an entire genus (ash, for example) followed by some individual species. This is because some references list only a genus while others list particular species as being resistant.



### Groundcovers and Herbaceous Plants

#### Common Name

Alfalfa Bergenia Blanket Flower Bluegrass, Kentucky Buffalograss Candytuft, Evergreen Carpet bugle Cinquefoil, Spring Columbine Coral Bells Coreopsis Cotoneaster Cotoneaster, Rock Cotoneaster, Bearberry Daisy, Shasta Daylily Drosanthemum Dusty Miller Fescue Fescue, Blue Fescue, Tall Fescue, Creeping Red Flax Fleabane Four O'clock Geranium, Hardy Geranium, Bloodred Geranium Ginger, Wild Hen and Chicks Iris Kinnickinnick Lambs Ear Lavender Lupine Mahonia, Creeping

Genus and Species Medicago sativus Bergenĭa spp. Gaillardia x grandiflora Poa pratensis Buchloe dactyloides Iberis sempervirens Ajuga reptans Potentilla tabernaemontanii Aquilegia spp. Heuchera sanguinea Coreopsis spp. Cotoneaster ssp Cotoneaster horizontalis Cotoneaster dammerii Leucanthemum x superbum Hemerocallis spp. Drosanthemum speciosum Artemisa stelleriana Festuca spp. Festuca cinerea Festuca arundinacea Festuca rubra Linum spp. Erigeron hybrids Mirabilis spp. Geranium cinereum Geranium sanguineum Geranium sop Asarum caudatum Sempervivum tectorum Iris spp. Arctostaphylos uva-ursi Stachys byzantina Lavandula spp. Lupinus spp. Mahonia repens



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Geranium sanguineum





Hen and Chicks



Quaking Aspen



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Mock Strawberry Mountain Spray Myrtle, Dwarf Periwinkle Orchardgrass Penstemon, Rocky Mtn. Pinks Poppy Poppy, California Potentilla Primrose, Mexican Eve. Primrose Pussytoes Red Hot Poker Ryegrass Ságe Sedum, Goldmoss Silver Spreader Snow-in-Summer Stonecrop Stonecrop, Green Strawberry, Wild Sunrose Thrift, Common Thyme, Wooly Thyme, Creeping Valerian, Red Violet, Canadian Virginia Creeper Wheatgrasss, Western Wheatgrass, Crested Winterfat Yarrow Yarrow, White Yarrow, Fernleaf Yarrow, Wooly Yucca

Shrubs

Buffaloberry

Cherry

Common Name Antelope Brush

Buffaloberry, Russett

Chokecherry Cinquefoil, Shrubby Deerbrush (Buckbrush)

Dogwood, Red-osier Gooseberries and Currants

Lilac, Common Mahogany, Mountain

Sumac, Skunkbush

Buffaloberry, Silver

Cherry, Sand Cherry, Nanking

Honeysuckle

Mockorange

Plum, Native

Pyracantha

Raspberry

Saltbush

Rose

Common Name

#### Genus and Species

Duchesnea indica Holodiscus soo Vinca minor Dactylis glomerata Penstemon strictus Dianthus plumarius Papaver spp. Eschscholzia californica Potentilla spp. Oenothera berlandieri Oenothera spp Antennaria sob Kniphofia uvaria Lolium spp. Salvia spp. Sedum acre Artemisia caucasica Cerastium tomentosum Sedum spathulifoluim Sedum album Fragaria chiloensis Helianthus mummularium Armeria maritima Thymus pseudolanuginosus Thymus praecox articus Centranthus ruber Viola canandensis Parthenocissus quinquefolia Agropyron cristatum Agropyron cristatum Eurotia spp. Achillea son Achillea millefolium white Achillea filipendulina Achillea tomentosa Yucca filamentosa

#### Genus and Species Fendlera rupicol

Shepherdia spp. Shepherdia canadensis Shepherdia angentea Prunus spp. Prunus besseyi Prunus tomentosa Prunus virginiana Potentilla fruiticosa Ceanothus spp. Cornus sericea (C. stolonifera Ribes spp. Lonicera spp. Syringa vulgaris Cercocarpus spp. Philadelphus spp. Prunus americana Pvracantha spp. Rubus spp. Rosaceáé Atriplex spp. Rhus trilobata

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These two pages from the Montana State University have a good explanation of the types of plantings that thrive in the Bighorn Basin, and are Firewise options to some of the highly-flammable plantings and native plants around homes and cabins.

#### Irees

Common Name Alder, White Ash Ash. Green Aspen, Quaking Birch Cottonwood Hackberry Locust, Black Maple Maple, Big-toothed Maple, Boxelder Maple, Rocky Mountain

Poplar Narrowleaf Cottonwood Prunus



Green Ash



Box Elder

Genus and Species

Fraxinus pennsylvanica

Populus tremuloides

Celtis occidentalis Robinia pseudoacacia

Acer grandidentatum

Alnus rhombifolia

Fraxinus spp.

Betula spp. Populus spp.

Acer spp.

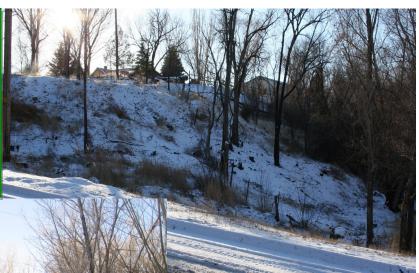
Acer negundo Acer glabrum

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#### TOWN OF LOVELL GLOBE CANAL BEFORE AND AFTER SCENES

To the right is a shot of the hillside below the Shoshone Avenue water tank, AFTER completion of the Firewise thinning and slash treatment.

Below is the same slope last winter **BEFORE** treatment was started.



Treatment consisted of cutting down all dead trees, and most shrubs and small trees to increase spacing between tree crowns. Remaining trees were pruned of small limbs. Cut trees, limbs, and shrubbery were piled and burned.



A long string of Globe Canal homeowners have approved plans for treating the slope below their homes. Progress will be reported in future newsletters. <— Is a *BEFORE* picture of a private lot that is also above the Globe Canal. Below is an *AFTER* shot of the same hillside following treatment. This landowner wanted more clearing than was recommended by Firewise.



### Being Firewise Around Your Home ... WHEN A WILDFIRE THREATENS ... 🚔

Here are some important tasks you can do when a wildfire is imminent:

Collect up your pets, and confine them for transport. <u>DOTHIS FIRST!</u>

🛱 Be sure gutters, roof and valleys are clear of leaves and dead branches.

**Remove combustible materials, lawn furniture, doormats, garden accessories, and tarps, etc. from decks and around the house and other buildings.** 

Close attic, basement, outside & pet doors, vents, and windows.

**#** Remove flammable drapes from windows, and close shutters and blinds.

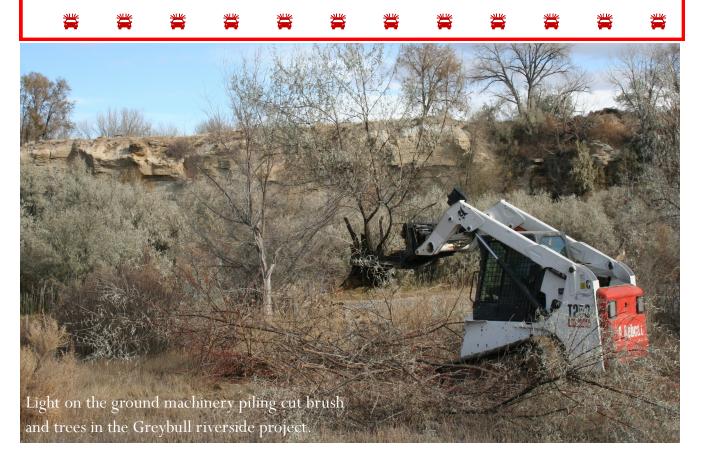
Connect garden hose and fill large containers with water inside and outside.

Wet down vegetation within 30 feet of home.

**ä** Leave doors and windows unlocked, and disconnect garage door openers for firefighter access.

Shut off natural gas, propane, or fuel oil supplies at the source.

Solution Orders, and evacuate early with your valuable papers.



## MORE LITTLE THINGS THAT MATTER



Weathered wooden walkway Exposed uncoated access hatch Either of these could be ignited by flying embers.

Big Horn County Firewise 6628 W. Riverside Drive Casper, Wyoming 82604

