Big Horn County

## ISSUE #33 — FALL 2019

## TWO SERVICES PROVIDED BY WASHAKIE FIRESMART

Washakie County Firesmart has active projects in that county, and, weather permitting, offers these two services at no cost to that county's home and cabin owners with approved Wildfire Mitigation Plans.

Tree Pruning: Firesmart will prune the trees in your Home Ignition Zone (HIZ) within 30 feet of your home/cabin, as recommended in your WMP. Removing the cut limbs will be the responsibility of the cabin—or home-owner.

**Pile Burning**: If you have slash and debris piles resulting from your Firesmart activities, your county Firesmart coordinator is available to burn them.

Home and cabin owners with piles to burn need to be reminded that:

- Flame lengths may be 10 to 15 times the height and length of the pile size. Example: If a pile is five feet tall and five feet wide, the flames could extend in all directions 50 feet or more, depending on wind. With this in mind, piles should be far enough away to avoid scorching standing trees, structures or other improvements. Look at page 6 pile burning photos for flame lengths.
- After ignition, piles will need to be closely monitored periodically for the next few days, to ensure that fire does not spread away from the pile location.
- Debris piles should be, compacted with as little air space as possible.

If you are burning your own piles, contact the County Fire Warden to inform them of the time and day you will be burning. The Washakie County Fire Warden phone number is: (307) 347-6379. Other county fire warden numbers are on Page 2.

Home and cabin owners should consider spreading a seed mixture on burn pile locations the following spring with native grasses and forbs to help prevent introduction of noxious weeds

To obtain tree pruning or pile burning services, all you need to do is submit a request to Washakie County Firesmart at firesmart@wytfs.com, 6628 W. Riverside Dr. Casper, Wyoming 82604, or (307) 333-1098 (office), (307) 272-9533 (mobile). Your request should include your name and the location/physical address of your home or cabin.

## Firesmart information and all newsletter issues are available at: www.bighornbasinfiresmart.com

Special points of interest

<u>Page</u>

Washakie County Firesmart Service	es 1	* Tree pruning & pile burning
Firewise/Firesmart Coordinators	2	* Landscape plant brochures
<b>Global Wildfire Situation Analysis</b>	3	* Recommendations for corrections
Plants for a Firesmart Landscape	4	* Courtesy of Montana State Univ.
Society of American Foresters field trip 5		* The SAF visits Firesmart projects
Washakie Firesmart burning slash piles 6		* The Firesmart Coordinator at work
Eave Troughs Revisited	7	* Plus more Little Things that Matter
Little Things that Matter	8	* Around your home & cabin



In this issue

## THE BIG HORN BASIN FIREWISE/FIRESMART COORDINATORS ARE:

**Big Horn County:** The County Fire Warden is Brent Godfrey (307) 568-2324.

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

<u>Park County</u>: Bernie Spanogle, Firewise Coordinator, can be reached at <u>pcfirewise@gmail.com</u>. or at 307-250-9387. The County Fire Warden is Russ Wenke, <u>rwenke@parkcounty.us</u>, 1131 11th Street, Cody, Wyoming 82414, or (307) 527-8551.

The basin Firewise website: parkcountyfirewise.com When you get there, surf the MENU to see what articles, photos, and short video clips are there. Check it out.

If you have general or specific questions about Firewise, two good online sources for answers are: www.firewisewyoming.com and www.livingwithfire.com.

Do you have topics you would like included in future newsletters? Please submit your suggestions and comments to <a href="mailto:firesmart@wytfs.com">firesmart@wytfs.com</a>, or by mail to G. Wynn, 824 Country Club, Casper, Wyoming 82609.

Thanks for providing this newsletter go to the Wyoming State Forestry Division, the Washakie County Fire Warden, and the U.S. Forest Service. 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 <a href="mailto:firesmart@wytfs.com">firesmart@wytfs.com</a>, or to Big Horn/Washakie Firewise (6628 W. Riverside Drive, Casper, Wyoming 82604) by mail.

Bighorn Basin Firesmart Wildland Fire Public Outreach and Education Website: www.bighornbasinfiresmart.com

## WHAT TO PLANT AROUND YOUR WYOMING HOME AND CABIN



Page 4 lists plants, shrubs, and trees are suitable for landscaping around your home and cabin. Here are two available publications that provide more details on some plantings that are adapted to the Wyoming climate.

Some plants may not be the best for a Firewise application, so you should refer to Page 20 of the **PROTECT YOUR HOME FROM WILDFIRE** guidebook at www.firewisewyoming.com.

TREES FOR WYOMING is a good guide found at Wyoming State Forestry Division offices. "Conservation Trees and Shrubs for Montana" is is available through your local NRCS office.

You can now keep up on daily news and events with Bighorn Basin Firesmart. Go to: <a href="https://www.facebook.com/bighornbasin.firesmart">https://www.facebook.com/bighornbasin.firesmart</a>



Conservation

Trees and

## New global wildfire analysis indicates humans need to coexist and adapt

Recent studies made by various research groups and colleges worldwide indicate that current responses to wildfires—aggressively fighting them—is not making society less vulnerable to such events. They suggest that we should treat fires like other natural hazards—including earthquakes, severe storms, and flooding—by learning to coexist, adapt, and identify vulnerabilities. We don't think that way about fire, but the reviews indicate that we should," Humans don't "fight" these other natural events, we anticipate them in the way we plan communities, build buildings, and prepare for emergencies.

In response to this, to mitigate wildfire losses to humans and communities, and the ecological consequences, we should adjust land-use to adapt to wildfire as an inevitable and natural process. To more successfully coexist with wildfire we need preventative tools, like residential land-use planning, zoning guidelines, fire-resistant building codes and fuels management on and around homes, for example.

One cause of the present "problem" is the continued rapid expansion of the wildland-urban interface (WUI) communities into locations prone to wildfires. Often these are adjacent to or surrounded by publicly-owned wildlands where we need more integrated solutions that cross the public-private land boundary to help us coexist with inevitable wildfire. Some studies indicate that government-sponsored and paid for firefighting and land management policies may actually encourage development on inherently hazardous WUI landscapes, leading to increased human losses to wildfire, and this is not considered a long-term acceptable practice.

Forest thinning and carefully planned and implemented prescribed burning can have positive effects on reducing potential for wildfire damage to WUI homes and communities, but are rarely effective under extreme burning conditions, and the severity of fire in adjacent forests and other wildland has little to do with whether a home burns.

In the western U.S., there has been a 60 percent expansion of homes and communities in the wildland-urban interface since 1970; primarily in forests, shrubland, and rangeland that have a history of moderate- to high-severity fires.

And, to complicate the future, climate change will inevitably increase the need for management strategies that do not depend solely on firefighting resources and money.

A summary of recommendations to create a more sustainable coexistence with wildfire:

- ⇒ Adjust land-use zoning to adapt to wildfire as an inevitable and natural process.
- ⇒ Update building codes in all areas with a history of wildland fires.
- ⇒ Implement vegetation management strategies in and adjacent to WUIs, by continuing forest thinning and prescribed burning, but recognize this is not the total solution.
- ⇒ Develop household and community plans for surviving fire situations.
- ⇒ Evaluate and improve evacuation and warning systems.
- ⇒ Develop or improve maps of fire hazards, ecosystems and climate change effects.
- ⇒ A more historic forest and rangeland fire regime *might* just fix some of this situation.

Suggested general sources for topics on this page can be found by searching:

Social Sciences, Natural Sciences, Research, Environment, Institutes

This page from the Montana State University lists the types of plantings that thrive in the Bighorn Basin, and are Firesmart alternatives to some of the highly-flammable plantings and native plants around homes and cabins.



# Fire-Resistant Plants for Montana Landscapes

# 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 Kinnickinnick Lambs Ear Lavender

#### **Genus and Species**

Medicago sativus Bergenia 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 dammeni Leucanthemum x superbum Hemerocallis spp. Drosanthemum speciosum Artemisa stelleriana Festuca spp. Festuca cinerea Festuca arundinacea Festuca rubra inum spp Erigeron hybrids Mirabilis spp. Geranium cinereum Geranium sanguineum Geranium spp. Asarum caudatum Sempervivum tectorum Iris spo Arctostaphylos uva-ursi Stachys byzantina Lavandula spp. Lupinus spp. Mahonia repens



Geranium sanguineum



California Poppy



Hen and Chicks

Quaking Aspen

### Common Name

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 Sage Sedum, Goldmoss Silver Spreader Snow-in-Summer Stonecrop, Green Strawberry, Wild Thrift, Common Thyme, Wooly Thyme, Creeping Valerian, Red Violet, Canadian Virginia Creeper Wheatgrasss, Western Wheatgrass, Crested Winterfat Yarrow Yarrow, White Yarrow, Fernleaf

#### Genus and Species

Duchesnea indica Holodiscus spp. Vinca minor Dactylis glomerata Penstemon strictus Dianthus plumarius Papaver spp. Eschscholzia californica Potentilla spp. Oenothera berlandieri Oenothera spp. Antennaria spp. Kniphofia uvaria Lolium son 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 Achillea spp. Achillea millefolium white Achillea filipendulina Achillea tomentosa Yucca filamentosa

## Trees

Lupine

### Common Name

Mahonia, Creeping

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

Poplar Narrowleaf Cottonwood Prunus



Green Ash

#### Genus and Species

Alnus rhombifolia
Fraxinus spp.
Fraxinus pennsylvanica
Populus tremuloides
Betula spp.
Populus spp.
Celtis occidentalis
Robinia pseudoacacia
Acer spp.
Acer grandidentatum
Acer negundo
Acer dabrum

Populus spp. Populus angustifolia Prunus spp.



Box Elder

## Shrubs

Yarrow, Wooly

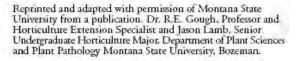
Yucca

#### Common Name Antelope Brush

Buffaloberry
Buffaloberry, Russett
Buffaloberry, Russett
Buffaloberry, Silver
Cherry
Cherry, Sand
Cherry, Nanking
Chokecherry
Cinquefoil, Shrubby
Deerbrush (Buckbrush)
Dogwood, Red-osier
Gooseberries and Currants
Honeysuckle
Lilac, Common
Mahogany, Mountain
Mockorange
Plum, Native
Pyracantha
Raspberry
Rose
Saltbush
Sumac, Skunkbush

## Genus and Species Fendlera rupicola

Shepherdia spp.
Shepherdia canadensis
Shepherdia angentea
Prunus spp.
Prunus tomentosa
Prunus tomentosa
Prunus virginiana
Potentilla fruiticosa
Ceanothus spp.
Cornus sericea (C. stolonifera,
Ribes spp.
Lonicera spp.
Syringa vulgaris
Cercocarpus spp.
Prunus americana
Pyracantha spp.
Rubus spp.
Rubus spp.
Rubus spp.
Rosaceae
Atriplex spp.
Rhus trilobata



## THE SOCIETY OF AMERICAN FORESTERS VISIT A FIRESMART PROJECT

The Northern Wyoming Chapter of the Society of American Foresters (SAF) met onsite in late summer for a field trip led by Chris Weydeveld, Washakie County Firesmart Coordinator. The purpose of the visit was to look at a success story in wildland-urban fuels reduction in the Canyon Creek drainage in the southern Bighorn Mountains. For more than two decades, landowners have been working to reduce wildfire hazard in dense mature mixed-conifer forests within and adjacent to the Canyon Creek Country rural subdivision. This has involved the cooperation and participation of the Washakie County Fire Warden, Washakie County

Firesmart, the Tolman Ranch, the Canyon Creek Country Cabin Owners Association, Wyoming State Forestry Division, the Bighorn National Forest, the Worland Field Office of Bureau of Land Management, and other private landowners in this area of mixed land ownership.

The SAF field trip participants are listed under the photo to the right. All were favorably impressed with the results of the treatment prescriptions, and credited part of the success to a working relationship and communication between SAF members.

piling and burning, removal, and tractor masticaset the costs of part of the treatment. Landowner Participants not Participant not Participants not Participant not Participants not Participant not Participants not Participant not Pa comments have included "Look at that view now," and "Our forage production is up," plus favorable impressions about the reduced fire hazard.

Treatments in the project area have included | Pictured left to right are: Trey Davis (Nature Conservancy), small tree thinning, commercial timber harvest, ∥Jim Gates (BLM), Jacob McCarthy (Wyoming State Forestry and slash treatment that consisted of a mixture of Division), Brian Russell (Wyoming State Forestry Division), Carli Kierstead (Nature Conservancy), Paul Wright (Sustainable Forestry Consulting), Dick Terry (Wyoming State Forestry Division), tion. Commercial product extraction helped off- Jonathon Sloan (Wyoming State Forestry Division). Field trip participants not pictured are Chris Weydeveld (Washakie County

Funding for the forest thinning and fuels treatment came from a mixture of state grants, federal funds, and private landowners; some of which was in-kind work.

Previous newsletters have included mentions and photos of the accomplishments, and more will be coming for this continuing project.

In addition to work funded by the above cooperators, Canyon Creek Country residents participating in their annual work day have done work on their community property for several years. Pictured is one Canyon Creek Country resident doing Firesmart thinning and slash removal on his own forested lot.



## WASHAKIE COUNTY FIRESMART BURNING THINNING SLASH PILES

This is one part of the Firesmart work mentioned on the previous page, and is the final action to complete treatment of some of the project acres.



On October 9 this year the Washakie County Firesmart Coordinator burned approximately 40 slash piles within the Annie Tolman Fuels Reduction Project area as part of the Washakie County 2017 CAFA project funded through the efforts of Washakie County, Wyoming State Forestry Division and the U.S. Forest Service.



This October, the Firesmart Coordinator also burned slash piles around cabins within the Canyon Creek Country sub-division as part of the Washakie County 2017 Firesmart Grant from the Wyoming State Forestry Division and the US Forest Service.

Photos by Gibson Weydeveld

## **EAVETROUGHS AND DOWNSPOUTS REVISITED**

Eave troughs and Firesmart have been mentioned in other newsletters, but here are two problems not previously covered. The pictured flattened downspout needs to be replaced, as it won't let water drain, and that will allow the trough to fill with flammable debris. The other photos show a perforated eave trough cover that is advertised as preventing leaves and other items from entering the trough. In this case, dirt, small leaves, twig, and seeds have filled the unit, and plants have grown there and died! While removing (and reinstalling) the screens to clean these is a real pain, ignoring this ember trap could cause loss of your home or cabin.





Crushed downspout drain tube

Full screened eave trough

## MORE LITTLETHINGSTHAT MATTER—All should be removed to be Firesmart



Shrubs and trees against the house wall



Dried vegetation within 3 feet of the wall



Grass and shrubbery under a bay window

## MORE LITTLE THINGS THAT MATTER



Dilapidated vine-covered and weathered lattice adjacent to a structure. An obvious ember trap that should be removed or replaced with something much less flammable.



A rock and dirt "mulch" around a home. This one needs to be cleaned to removed the layer of conifer needles.



This wooden walkway might keep mud out of your cabin, but a fire could follow it right to your cabin.



Shrubs, trees, and vines growing under the eaves of a house. These fuel ladders need to be eliminated.



If your address signage isn't clearly visible, firefighters might not be able to find your house!