

Weston County Natural Resource District Newsletter

IANUARY 2019

Historical Black Hills-Timber

Austin Sommerville, NWTF Forester

District Supervisors

Alicia Redding Chairman

David Tysdal Vice-Chairman

Emily Hartinger-Treasurer

Gene Norman-Supervisor

Tucker Hamilton Supervisor

District Staff

Lacey Sloan Coordinator

Austin Sommerville NWTF-Forester

USDA-NRCS Staff

Paul Eitel NRCS, District Conservationist

District Hours

Monday-Friday 7a.m. – 3:30p.m. 307-746-3264 Photographs of the Custer Expedition in the 1870s indicate that the Black Hills have changed much since then. It is still predominantly ponderosa pine, but the forest structure and density have changed considerably. The old photos show stands of far fewer trees than today, but stands composed of older, larger trees exceeding 20 inches in diameter. Almost absent were the abundant stands of 2-inch saplings growing like dog hair that we see now. Regeneration in the Black Hills is more prolific than most other ponderosa pine forest. This is primarily due to our precipitation peaking in late spring/early summer, which is favorable for seed germination. Regeneration in most other



ponderosa pine forest, where precipitation comes later in the summer, is more episodic. The precipitations patterns have not changed enough in the last 100 years to explain the change in

forest structure. What has changed is the frequency of natural wildfires. Frequent ground fires historically maintained openness of mature ponderosa pine forest by having a thinning effect on seedlings and saplings. The high mortality inflicted on seedlings and saplings opened the understory and reduced ladders for ground fires to climb into the forest canopy. With thick bark and a tendency to self-prune, ponderosa pine forest are well adapted to low-intensity surface fires and they seldom damage mature trees. It was the frequency of fire kept the intensity of most fires low

by preventing heavy fuel loading between fires.

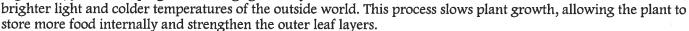
Historically, Black Hills forest burned every 10-35 years. That pattern ceased with the Euro-American settlement in the late 1800s, fire suppression became a priority for settlers and that has continued into present times. We have gotten so good at fighting fires on the ground that most fires started from lightning are limited to 1-10 acres instead of burning thousands of acres as they may have in previous centuries. Some of our forest now have not burned in over 100 years. After a century of aggressive fire suppression, we now have increased fuel loading on the ground and an increase in density of small trees. We still have wildfires that burn thousands of acres, but now they burn far hotter with much higher tree mortality. Wildfires of today are more likely to become stand-replacing fires.

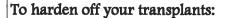
In recent decades, we have learned the benefits of returning surface fires to the landscape. Prescribed fires, which are planned fires conducted under controllable conditions, have been an effective tool of removing moderate amounts of surface fuels while controlling excessive amounts of regeneration after a timber harvest. Our current problem is that we have let fuel and regeneration accumulate for too long and most of our forest are too dense to safely burn. For that reason, we have relied on pre-commercial thinning to remove the excessive volume of small diameter trees. Pre-commercial thinning is a management tool for reducing the amount of small diameter trees in the forest. Resource-stressed trees are less resilient to disease, insect infestation, and adverse weather. Decreasing the stock density reduces competition among trees to increase growth rates and improve tree health. A thinned forest is also less susceptible to catastrophic wildfire after the removal of excess saplings that often serve as ladder fuels for a ground fire to climb into the forest canopy. Increased spacing between the over story trees prevents fire from spreading from crown to crown.

The Black Hills are no longer the wild place that it was in the 1800s. With a resident population near 250,000, our land now supports energy, cattle, timber production and tourism. People have become part of the landscape just like the weather and the trees. We can't stop suppressing wild-fires, but we have options to manage for healthy forest that supports our modern land use.

Hardening Off Your Seedlings

Hardening your off your seedlings is just another way to increase the chances of survival for your crops. Whether it be flowers or vegetables, you are helping the seedlings gradually acclimate to a





- 1) Start a week or two before you plan on setting your transplants in the garden. Stop fertilizing and reduce the amount of water the plant receives. Water them just enough so that they do not wilt.
- 2) Take plants out for short 30 minute periods during the warmest part of the day and place in light shade. Make sure that they are protected from harsh winds, and construct a windbreak if necessary.
- 3) Gradually increase the amount of time the plant spends outside and the light intensity they are exposed to.

There is such a thing as " to much of a good thing" and it is possible to over harden your seedlings. This in some varieties can cause the plant to bolt, prematurely producing seed or flower.



WESTON COUNTY NATURAL RESOURCE DISTRICT IS ON FACEBOOK!



Bluebird houses are available for sale through the District Office.

The houses are built by the Wyoming Honor Conservation Camp and come fully assembled. The bluebird houses are priced at \$15each.

To purchase a bluebird house, please contact the District Office. Bluebirds are returning to our area and houses should be installed soon to achieve the best chance of occupancy.

Helpful Advice: To attract Bluebirds it is best to hang houses 4-6 feet off the ground facing East. To prevent crowding a minimum of 300 feet between each house is ideal. To learn about how to attract other species to your area visit: www.birdsandblooms.com/birding/attracting-birds

Info and Photos of Trees from Order Form

For more information about the trees offered this year please visit the following websites:

- https://static.colostate.edu/client-files/csfs/pdfs/08byrgd-www.pdf
- * Or stop by the District Office

COMMUNITY TREE GRANTS AVALIABLE!!!

This is up to a \$500 grant for tree planting in Weston County in public locations! If you or your organization would like to apply give us a call!!

Deadline for submitting is March 5th 2019!

2019	WCNR	D Tre	e Order	Form	Order#		
Bareroot Trees - lots of 25 per species only				Crestwood-Large Shrubs			
DECIDUOUS -	height vary by	species		Sold Individualy- 5 gallon size			
SPECIES	# of units	COST	TOTAL	SPECIES	# of units COST	TOTAL	
D. Or Shall Edition.				Barberry	\$20.00		
02 Cotoneaster		\$35.00		Dogwood 'Red Twig'	\$20.00		
04 Chokecherry		\$35.00		Forsythia 'Meadow Lark'	\$20.00		
				Common Lilac	\$20.00		
06 Native Plum		\$35.00		Mockorange	\$20.00		
09 Nanking Cherry		\$35.00		Potentilla	\$20.00		
11 Wild Rose		\$35.00		Siberian Pea Shrub (caraga	\$20.00		
		E STATE OF THE	A WAY WAY	Spiraea 'Anthony Waterer'	\$20.00		
				Spiraea 'Neon Flash'	\$20.00		
			X 13 130	Spiraea 'Snowmound'	\$20.00		
			Not the last	Cotoneaster 'Cranberry'	\$20.00		
				Ninebark Diablo	\$20.00		
T Ponderosa Pine		\$35.00		Crestwood-Large Potted T			
35 Prairie Sky Poplar		\$35.00		Sold Individually- 5 gallor Height varries by Species			
40 Manchurian Apricot		\$35.00		SPECIES SPECIES	# of units COST	TOTAL	
106 Eastern Red Cedar		\$35.00		Aspen, Quaking Clump	\$30.00	10171	
110 Rocky Mountain Juniper		\$35.00		Birch, Paper Clump	\$30.00		
	Trees - lots of :	the state of the s		Chokecherry, Canada Red			
5" - 12" top height; 7"x2" tubes				Crabapple 'Indian Magic'	\$30.00		
SPECIES	# of units	COST	TOTAL	Crabapple ' Prairiefire'	\$30.00		
Black Hills Spruce		\$85.00		Littleleaf Linden	\$30.00		
Colorado Blue Spruce		\$85.00		Purple Robe Locust	\$30.00		
Eastern Red Cedar		\$85.00		Shademaster Locust	\$30.00		
Meyer Spruce		\$85.00		Amur Maple	\$30.00		
Ponderosa Pine		\$85.00		Oak, Bur	\$30.00		
Rocky Mountian Juniper		\$85.00		Oak, Northern Red	\$30.00		
Scotch Pine		\$85.00		Oak, Pin	\$30.00	 	
**************************************		\$05.00	JULY SENS	Narrowleaf Cottonwood	\$30.00	1	
THE RESIDENCE OF THE				Golden Willow	\$30.00		
				Navajo Globe Willow	\$30.00	•	
Planti	ng Supplies						
Item	# of units	COST	TOTAL				

Payment Must Accompany Order with 6% tax! Make Check Payable and return to:

\$4.00

\$4.00

\$0.15/each

\$0.40/ft \$100/roll

Weston County Natural Resource District 1225 Washington Blvd. Suite 3 Newcastle WY, 82701

Questions Call: (307)746-3264 ext4 Visit: www.westoncountynrd.org

Fabric Mulch (6x300ft) Rolls

Tree Protectors sun/ wind

Anchor Pins box of 500-\$60

Tree Protectors 4 ft.

Total Before Tax \$ Sales Tax (6%) \$ \$ TOTAL AMOUNT DUE

Orders must be received by April 5, 2019

-: \	20	19 WC	NRD Se	edlingT	ree Ord	er Form	Order #		
					100 010				
ONDITIO	NS OF SALE						Anton and provide complete laters and as terms open question and provide complete and		
	1. No plant purch	ased from th	e WCNRD o	r their distrib	utors may be i	esold as a living plant.	12		
	2. Bare root tree:				ecies only.				
	3. Large Tube tre								
	4. Payment must	accompany	order. Refu	nds will not be	given for can	celled orders after 3/1/2016.			
	5. If trees ordere	ed are not av	ailable, a ref	and will be iss	ued, unless a	substitution is requested.			
	6. The CSFS Nu	rsery/WCNF	D is not res	onsible for e	rrors in invent	ory count			
	7. No guarantee o								
	8. TREES WILL	BE DELIVI	ERED IN MA	Y. WE WILL	CONTACT Y	OU PRIOR TO PICK UP D	ATE.		
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cres of own	ership		County						
			denote the second						
		1							
	Salar and Salar Sa								
	Shrubs					Deciduous Trees			
uffalo Be	rry: native, droug	ht resistant			Aspen: tal	I, poor drought resistance			
Caragana: medium to tall, does well in poor soil					Bur Oak: hardy, drought resistant, slow growth				
that is being the same of the same of the same of	ry: tall, can be po		or the second distance of the second distance	st crowth	Narrowleaf Cottonwoodfast growth medium, drought tolerant				
	er: drought resista				Prairie Sky Poplar: rapid growth, cottonwood cross, usual				
	llow: suckers, far				cottonless				
				at adible frai			41.		
Golden Current: small/med height, drought resistant, edible frui Lilac: excellent cold hardiness, fast growth									
	herry: fast growt			+	Manchurian Apricot: small, fast growth, drought resistant				
				41.	winter hardy				
Native Plum: tall does well in moist soil fast growth					Golden Willow: requires moist soil				
Red-Oiser Dogwood: small/med, not suited for dense clay					Hackberry: tall tree, drought resistant Northern Catalpa: medium growth rate, wide range of				
Saskatoon Serviceberry: tolerates variety of soil types					moisture conditions tolerated.				
Skunkbush Sumac: drought resistant, fast growth									
Wild Rose: low to ground, fast growth, suckers						Conifer Trees			
N.M Privet: very tall, alkaline tolerance, native					Austrian Pine: tall, drought resistant				
Mockorange: medium height, cold hardy.				Bristlecone Pine: native, slow growth					
Payment Must Accompany Order! Make Check Payable and return to:					Colorado	Colorado Blue Spruce: tall, slow growth Eastern Red Cedar:medium,drought reistant, very adaptable			
					Eastern Re				
					Ponderosa Pine:tall, fast growth				
					Rocky Mountain Juniper: drought resistant				
Weston	County Nati	ural Res	ource Dis	strict					
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	Market British and the second			Section 1	Like us on	Follow the We	ston County Natural		
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Newcas	ons Call: (3		3264	+111	faceboo		District on Facebook ad tree information !		

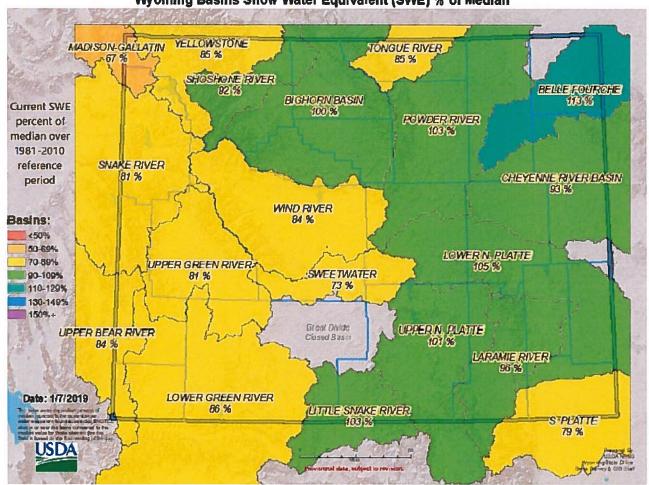
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ONRCS

Black Hills Snow Readings 2019

Wyoming Basins Snow Water Equivalent (SWE) % of Median



SAVE THE DATE: AUGUST 31st 2019





Weston County Natural Resource District 1225 Washington Blvd. Suite 3

Newcastle, WY 82701

Phone: 307-746-3264

E-mail: Lacey.Sloan@wy.usda.gov

The mission of the Weston County Natural Resource District is to provide leadership in conserving the natural resources in Weston County by providing information, education and technical assistance to meet the needs of

Meetings are held the second Wednesday of every month at 3:00 p.m. at the USDA Service Center. Members of the public are welcome to attend.

Bulk Rate U.S. Postage Rate Newcastle, WY Permit No. 52

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UPCOMMING EVENTS

January

21st—Office Closed (Equality Day/Martin Luther King Day)

February

12th- WCNRD Board Meeting @3PM, USDA Service Center

18th -Office Closed (Presidents Day)

March

5th-Tree Grants are Due to the District office by 3:30

12th- WCNRD Board Meeting @ 3pm, USDA Service Center

April

5th: Seedling Tree Orders Due to the District office by 3:30 p.m.

8th - WCNRD Board Meeting @ 3pm, USDA Service Center

May

May 3rd-TREE PICK UP DAY (7am to 330PM ONLY)

Rural Cost Share applications will be available to pick up mid month