

Rx Burning



Levi Koski

Certifications

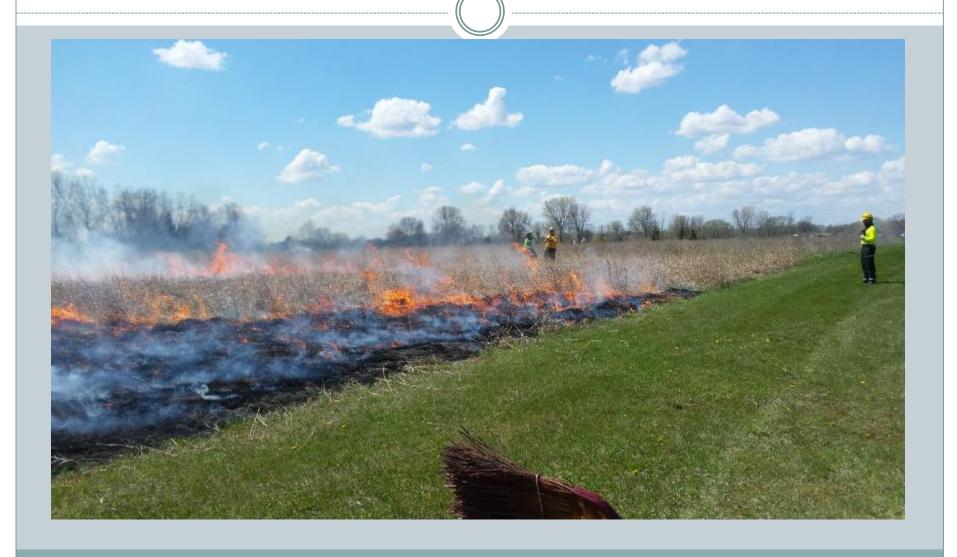
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- S-130
- S-212
- S-219
- IS 100 (ICS)
- IS 700 (NIMS)



<u>Experience</u>

- 5 seasons WDNR Wildlife Rx burning
- 1 season WDNR Forestry Suppression
- 2 seasons NES Burn Boss

History of Fire in Wisconsin



Historical Causes of Fire



Trains



Lightning Strikes



Native Americans



European Settlers



Fire Managed Communities









Landscape Changes





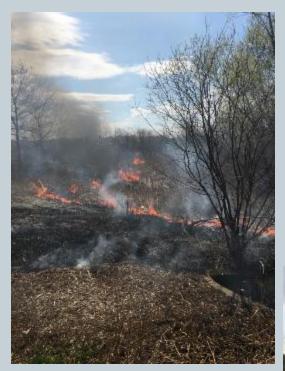


https://www.footscientific.com/foot-issues/all-conditions/wildfire-firefighters/

Benefits of Prescribed Burning



Control Woody Species







Promote Native Species, Manage Non-Natives











Maintenance and Planting Preparation Aid







Improve Habitat







Prevent Wildfires



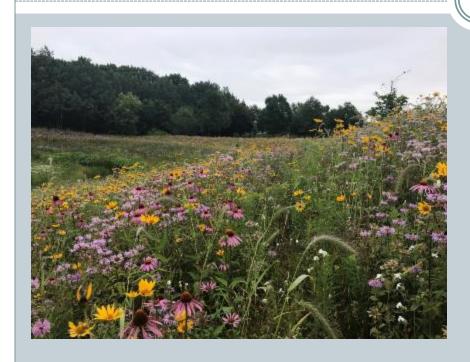


Recycle Nutrients





Aesthetic Appeal





Rx Burn Preparation



Burn Plan

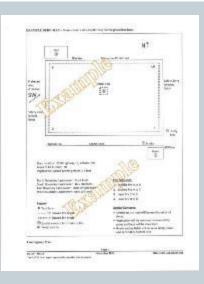
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Prescribed Burn Plan

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Burn Objective



Firing Plan/Ignition Sequence

- Ignition sequence:
- 1. Establish test burn at point A.
- 2. Simultaneously light backing fire from A to B & A to F.
- Once adequate black is established on south line, simultaneously light flanking fire from B to C & F to E (burn side slope on the west end of burn unit 1).
- 4. Once adequate black is established on the flanks, ignite flanking/head fire from C & E to meet at D (units 2-5, ignition teams will hold at C and E until all woody fuels have been back burned through before ringing the burn unit).

Smoke Managment



Safety/Concerns/Hazards

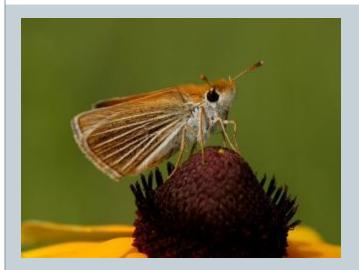








Special Concern Species



https://wisconsinbutterflies.org/butt erfly/species/131-poweshiekskipperling



http://infinitespider.com/lichens-101/



Weather Parameters





Prescribed Burn Plan

Wisconsin Job Sheet 338

Natural Resources Con	servation Service	×
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Place search has endownsteed at least fill dated raries to been	than plant with ANY missing items will not be reviewed.
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Landowses/Operator: Trever Vantaleuweahoven	Date: 2/7/2017
Address: 3284 River Forest Hills Polaski, WI 54162	
Phone Number: (\$219) 660-8813	K-maik Tuwork/orghicad.com
Eatly Responsible (individual-organization) for condu	eting burn: NBS Ecological Services
Address: 1250 Centennial Centre Boulevard Hobar, V	W3 54155
Phone Number: (920) 544-4380	E-melt Beski@relecine.com

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nen location wildress	fracile de	CONTRACTOR OF THE	10127 Brook Rd.	CHEST, W1 34124

County: Occario TWP: 29 N Range; IF BE DW SE % Section: 26

Total Acres in Burn Unit: 17.07

Objective of the burn (check all that apply)

- □ Control woody/invasive species
 □ Promote logumes is cool season wands.
- ☐ Promote gasses in coal secon stands
 ☑ Promote gasses in warm sensor stands
 is ☐ Proposition for sadding or planting
- Promote System and legames in warm season stands
 Species specific habitat management

B No

Vegetation (for all dominant species, both herbecous and woody).

Species	Height	Percent of Stand
Willow	4	10
Switchgrain	1	40.
hig Nameum	4	25
Perbs (goldenrod, queen mues luce, mollein)	4	25

Switchgrass comprises more than 50% of stand?
Woody species comprise more from 10% of stand?
Yes

Acceptable Conditions: Document acoust conditions in the GeNo Circ checkber (page 4) on the day of the burn. If any of the bulleowing constraints cannot be use or use on the edge of the limits for more than one parameter, do not been that day. Gest Plang Conditions: Temp > 91% or Wind > 18 mph og Relative Hamidity < 25%, Avoid light and workles white, DOI NOT have whith E house of an approaching weather from or during through the facility day (see this helper).

- Temperature 40-80*
- Preferred steady wind 3-18 mph from NON. Indicate direction on hum plan map.
 Other acceptable direction(s) for huming are: U. SU, S. SW, W, NW.
- Relative humality 25-60%

Page 1

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The USDA is so equal apportunity provider and employer.

Whoceam Job Sheet 3

Contingency Plan

Prescribed Burn Plan (338) Evaluation Checklist

	n:	920000401113
en submitted	by:	Date Received:
se of Burn Un	it(s):	
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stance to Sta	te/Federal Highway, Sub	disfsion, or City:
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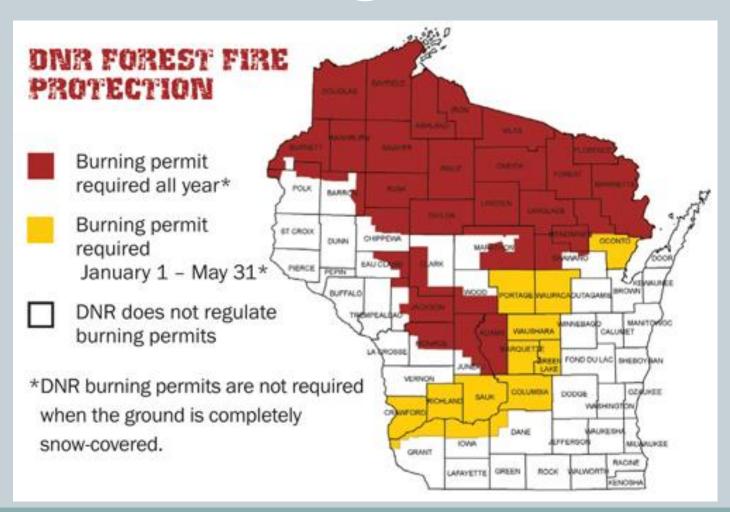
Yes No	Location of burn unit & acres to be burned.
∐Yes ☐No	Type, size, and location of firebreaks (minimum width 2 times vegetation height).
Nes No	Test burn location according to preferred wind direction.
☐Yes ☐No	Areas needing special protection.
Yes No	Smoke considerations.
☐Yes ☐No	Property boundaries, escape routes, safety zones, water resources, hazards.
∏Yes ∏No	Access roads to burn unit.
☐res ☐No	Label backfires.
Yes No	Label headfires.
☐res ☐No	List special concerns.
Ignition Plan &	Map-Up Norrative
res No	Sequence of burn and type of fire.
Yes No	Aspect & Slope addressed.
Yes No	Slope map attached.
☐Yes ☐No	Map up concerns identified 8, time to complete.
Contingency Pl	an & Other Concerns
Tires Tho	identification where fire is most likely to get out of control.
Tres The	identification of direct attack or back up plan.
Tres Tho	Access for fire department addressed
Tres. No	Smoke concerns listed.
☐Yes ☐No	Measures for additional concerns addressed.
Liability Staten	nent signed
Does submitte	d plan meet NRCS Prescribed Burning Standard 1587

Burn Map





Permitting and Notifications



Permitting

Wisconsin Department of Natural Resources Division of Forestry P.O. Box 1234 Madison, WI 53707-7921

Annual Burn Permit

Perce 4200, 425 (Ber. 2/45) N.560

This permit will expire on December Stat. 2017.

WINING: Obtaining this written burning permit is the first step to safe burning. Fire conditions change quickly, so check the fire restrictions daily to find out if burning is allowed, burning hours and/or any size limitations dn: wi.ggs keyword "fire" or 1.888 WIS BURN (947-2976)

LEVI ROSE: 1250 CENTERNIAL CESTEE SCULEVASO HOBART, NI 54155

Phone Mumber (000) 260-3134 Ernall Address:

LEOSEIGBELBEING COM

Authorization

The above named permittee is authorized to set fire within DNR Protection Areas when permissible and limited under the following restrictions. Flease remember that you agreed to all of the conditions below when you applied for this permit:

- Prior to burning, I will call the hottine or visit the website to check the daily burning restrictions 1-888-wis-burn (947-0
- I will only burn clean untreated wood, clean "non-recyclable" paper products and vegetation. I have considered other means of disposal such as composting or recycling.
- I will not burn garbage or anything that is recyclable. This includes, but not limited to: plastic: shingles; wire: metal. electronics; asphalt; painted or treated wood; rubber or oily substances; or structures of any kind (barns, sheds,
- I will altend my burn at all times and make certain it is completely extinguished and cold to the touch before
- I will comply with local ordinances, which may be more reductive than state law.
- I am not burning waste generated by a business or commercial entity.
- SAFETY MESSAGE: If my burn escapes my central, I will dial 911 immediately. Please note: forest fires can result in death or cause great bodily harm.

Certification

If your burn escapes your control, you will be held liable for all expenses incurred in suppressing the fire and may be responsible for all damages caused by the fire.

Date Issued: 03/27/2017 07:01:49AM

Visit dnr.wi.gov keyword "fire" or call 1-888-WIS-BURN (947-2876).

Notice: Under a 25.12 and a 25.13, individuals are required to complete this form and obtain a permit for open burning of materials. Requirements and penalties are specified below or in the statutes. Personal information collected will be used for program administration and may be provided to requesters as required by Wappman a Open Records law [as. 19.31-19.35, Wis. State.]

FURNISHED BY

Sale of Winceson Department of Natural Resources in pagegration with local trunicipal Hur Municipality of Gardiner County of BOOR

house of marget fire oil. 911

BURNING PERMIT

Notice Under Boor County Chapter 31.18. Hood have creed to act in the first have required to complete this form and obtain a period for open between Personally identifiable interruption will be used for administrating the burning permit program and very also be used for how or forcement pring thes.

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materials is strongly channing at Lauring about the year fact absoration Burning of plants, recyclable paper, and on Louis Laurings, asplant, treated or painted wood, ordine to only adoption, or arrangered of

my blint chore, sheds, homes, etc.) is thight. Fire itest be alreaded at all times and be mustly monagaished before you know.

You must also comply with load a disance, which may be more restrictive than sure law.
 Open but sing of any whate generated by having one and common fall outlies is not allowed under the paraditions of this points.

Additional Restriction at See Below. Also, no burning on Sanutage or Logal Holidays.

If your fire gets away, you may be held thinks for all expresses incurred an suppression of the fire and may be required for all damages caused by the fire.

I understand this period is invalidated upon violation of any of it's restrictions, or upon the butting of material not authorized by the permit, and may be cruciled when descreed acceptagy,

(406) 282-8134 conduct Signature

Local Official:

Date Toward

Additional Restrictions

- Special Portals for large quantum, all day permits, permits sought by commercial contractors and broadcast burns exceeding the local maximum size. Imit, recal to be forest by the local official or freit designer.
- Dan't been without fire lighting took such as a deemed, take and water hote or buckers of water at the sixt of the born.
- A non-combastible firebreak of 3 feet should percept the national to be becaused
- Don't have If the wind is stronger than 6 miles per hour of liftle weather forecast indicates the wind will increase during the lane you.
- Keep the give of your fire small, if you have a larger plie of book or other materials to burn, constant anning a separate five and perforg for entire id on a little bit at a time. It may take a little longer, but it is make.
- Don't ever lower your fire analogued, even tre a brief period or liver! When you are done burning motor our the five in completely out. before busing the same.
- Fire cashelf over in roots, stamps or either reported and he reliabilist at a later time. If that support, you may be increased for any
 conditor thange. Even if you have ration all the excessing proceedings, check the site averaging a few in events done a fire bentium. just to be sure. These have seen industries of fires anothering for up to a mouth often they were supposedly put east.
- Be trobe considered. Think about now your arrate will affect others and harve where your arroke will go to have you begin benning!

Exterior parties are required to regulate the cosm burning of transmist finding times when a force. For hearth code, and to post the 'ocal fire suppression organization with numerical of determining which those are pulse fired and which once may be a force. In-What are the risks of burning?

You may be found guilty of either civil or criminal charges when burning in victories of Wiscounin laws and/or local ordinances. In eccition, if year fire excepts and becomes a flavor fire, you may be liable for all couch of exceptaining for flor and, in obell office, may be liable for any property dentaged or destroyed.

REMEMBER

Only you can prevent wildfires:

Notification





Burn Breaks







Burning Out





Refugia



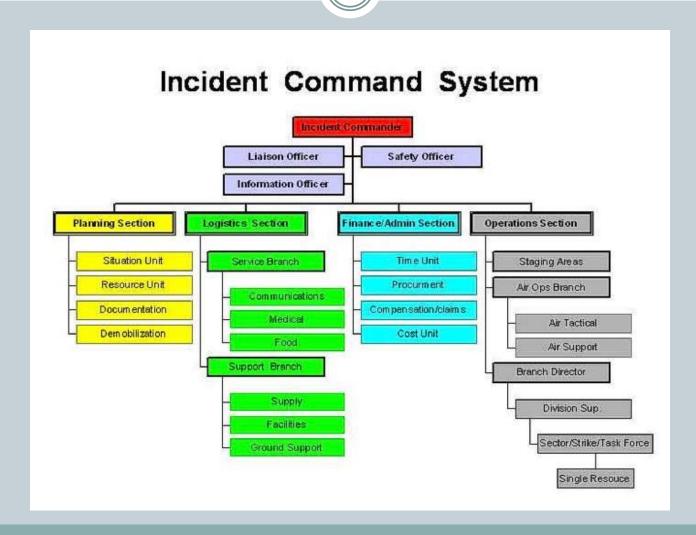


Heavy Fuel Removal





Chain of Command



Duties/Responsibilities









Communication



http://www.firehouse.com/article/10468508/c ommunicating-in-the-wildland-urban-interface

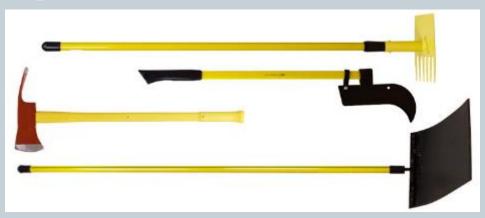


http://www.firerescuemagazine.com/articles/print/volume-9/issue-2/technology-and-communications/developing-a-wildland-fire-communications-plan.html

Equipment

https://safetyfirstweb.com/collections/vendors?q=Perfex





http://www.nationalfirefighter.com/store/c/2021-Wildland-Hand-Tools.aspx



Signs



https://www.flickr.com/photos/usfwsmidwest/15559123212



http://www.newsline.dot.state.mn.us/archive/10/dec/8.html



http://www.moonshineink.com/news/summer-defensible-space

Pumps







http://www.unruhfire.com/marco-skid-units/



http://www.advancedtechres cue.com/Intelagard-Macaw-Pressurized-Backpack-Sprayer_3915_65852_2651_ csi.html



http://eeresq.com/id2.html

PPE



Ignition Tools



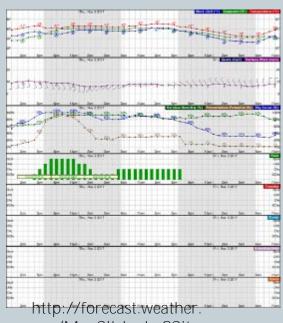








Weather Monitoring/Forecasts



gov/MapClick.php?City Name=Green+Bay&stat e=WI&site=GRB&textFi eld1=44.5216&textField 2=-87.9898#.WfoF_86cHc u





http://dnr.wi.gov/topic/ForestFire/forecasts.html

Physical Fitness



https://washingtondnr.wordpress.com/2 017/04/25/questions-and-answers-aninside-scoop-on-becoming-a-wildlandfirefighter/



https://www.youtube.com/watch?v=70BUsXfOmV8



Implementing the Burn



Test Burn



Types of Firing











Suppression



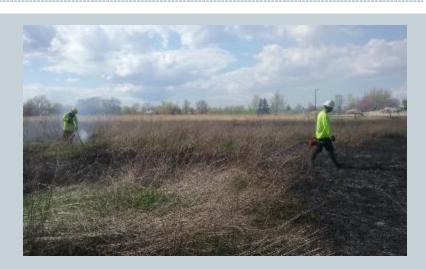








Mop Up



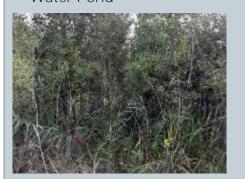






Post Burn

Barina Creek Storm Water Pond





Royal Woods Storm Water Pond







Huron Rd. Storm Water Pond 1







Huron Rd. Storm Water Pond 2







Success? Changes?

 Was the burn successful in meeting objectives? Why or why not?

What could have been done differently?

Maintenance



Questions?

