

Sternberg Prairie Restoration
SE ¼ 27-13-18
Prescribed Burn

Burn 1: 2.9 ac
Burn 2: 6.4 ac
Burn 3: 0.4 ac
Burn 4: 0.5 ac

Objectives:

Eliminate standing cover for restoration of interpretive native trail
Improve warm season natives
Suppression of Smooth Brome
Reduce litter
Brush management
Improve wildlife habitat

Adjacent Land Uses

North: Mowed state right of way, I-70, Rangeland, Sorghum stubble
East: Nursing Home, Sternberg museum
South: Creek bottom, Residential houses
West: Creek bottom with trees, Residential houses

Burn 1:

North: Mowed state right of way, I-70, Rangeland, Sorghum stubble
East: Burn Area 2
South: Creek bottom, Residential houses
West: Creek bottom with trees, Residential houses

Burn 2:

North: Mowed state right of way, I-70, Rangeland, Sorghum stubble
East: Burn Area 3, Sternberg Museum
South: Creek bottom with trees, Residential houses
West: Burn Area 1 (Black)

Burn 3:

North: Mowed state right of way, I-70, Rangeland, Sorghum stubble
East: Grass area, Sternberg Museum
South: Creek bottom with trees
West: Burn Area 2 (Black)

Burn 4:

North: Burn Area 2 (Black)
East: Trees, Burn Area 2 (Black)
South: Residential houses
West: Burn Area 1, Trees, Residential houses

Notes:

1. Obtain weather report 2 hours prior to start of fire
2. Notify County sheriff, fire department, Kansas Highway Patrol, Kansas Department of Transportation, utility company, and all landowners/homeowners 24 hours and 3 hours before starting. Also notify all the County sheriff, fire department, Kansas Highway Patrol, Kansas Department of Transportation after mop up.
3. Smoke Management: Notify sheriff's office and Highway patrol that smoke will be over Interstate 70.
4. Lookouts, water, and ATV's needed to be posted as shown on map.
5. Hazards:
 - a. Interstate 70, Windbreak,
 - b. Over head power line(smoke and water into) Do not water down poles prior to burn
6. All trees will be cut and larger branches removed. Scattered small branches that will be laying in the burn areas
7. Fuel Loads: 1000-3000lbs 50% warm season/50% cool season. Height 6"-24"
8. Burn Window: **February 15 – April 1 2011**
9. Notify Hospital to south east (has a helicopter). Notify airport 4 miles south east.
10. Notify campus police about crowd control
11. KDOT to supply electronic billboard on I-70.

Conditions: Very stable weather pattern; High ceiling

Wind: South/South West 5 - 10 mph

Relative Humidity: 25%-45%

Temperature: 40-80 degrees

Start Time: 10am to Noon. All flames out by 6pm

Man Power/Equipment

10-13 people

2-4 ATV with Spray tanks

5 shovels

5 flappers

1000 gallons extra water

10 gallons torch fuel

2-3 drip torches

10-13 radios

Extra radio batteries

4 butane lighters

10-13 maps/plans

4-5 engines

Pre Burn Plans

1. Smooth Brome on north side of the fence along I-70 is mowed to 3 inches tall
2. All trees in burn areas cut down, large trunks and branches removed; small pieces scattered in field.
3. Firebreaks are mowed as low as possible with a rotary mower all the way around the burn area 30' wide. Then use a wheel rake or side delivery rake to rake duff and vegetation over into the area to be burned a minimum of 20 feet.

Safety Zones & Escape Routes

Any black area and the Sternberg museum parking lot

Procedures:

1. All fire strips need to be perpendicular to the wind. (The actual strips may not look like what is on the map depending on slight wind direction variations)
2. These fires will use a mowed area with a wet line for firebreaks. A wet line is accomplished by sending one engine to pre-water a 5' strip in front of the igniter. The igniter will then light the fire on the inside of the wet line. Another engine will follow behind the igniter extinguishing the fire that tries to creep over the firebreak. This will be done for all fire breaks.

Burn 1:

Start fire 30' from fence on the south side of firebreak in the North West corner and move to the east corner. Hold until the fire has back burned in 50'. Then the igniter can start the next strip which will be a head fire into the back fire. Continue on using strip fires at 50' to 75' increments. Make sure all fires out before moving on to next burn area.

Burn 2:

Start fire 30' from fence on the south side of firebreak in the North West corner and move to the east corner. Hold until the fire has back burned in 50'. Then the igniter can start the next strip which will be a head fire into the back fire. Continue on using strip fires at 50' to 75' increments. This one will take 6 or 7 strips. Make sure all fire out before moving on to next burn area.

Burn 3: Start fire 30' from fence on the south side of firebreak in the North West corner and move to the east corner. Hold until the fire has back burned in 50'. Then the igniter can start the next strip which will be a head fire into the back fire. Continue on using strip fires at 50' to 75' increments. Make sure all fires out before moving on to next burn area.

Burn 4: Optional Burn:

Engine will not be able to cross drainage but everything to North will black. Place engines as noted on map for back protection. All ATVs will be on the same side as igniter. Igniter will start in the North West corner, lighting the back fire along the drainage. An ATV with water will follow. Again once the back fire has moved in 50' the next strip can be lit. Continue with the strip fire method at 50'-75' increments.

Mop Up:

Everyone needs to help patrol the field making sure everything is out and hot spots are taken care of. Any wood that is on fire needs to be put out.