Prescribed Fire: The Basics

Lindberg Park Prairie Trial Garden





Prescribed Fire - Why?

All nature in NE Illinois
(woodland, wetland,
savanna, prairie) REQUIRE
periodic fire to maintain
health



- 10,000 years of human/nature interaction
- No other management tool accomplishes everything that fire can



Prescribe Fire - Defined

 Fire set by trained personnel under specific weather conditions with specific safety standards to help achieve specific management objectives.





Prescribed Fire - Accomplishes

- Thatch reduction, allowing seeds to germinate
- Weed reduction or elimination
- Extends the growing season
- Promotes vigorous growth



Pale purple coneflower seeds germinate faster with smoke.

Excessive thatch can smoother small spring ephemerals



Management Objectives

- Improve the Overall Health of the Prairie Trial Gardens
 - Reduce weeds (nonnative plants, aggressive native plants)
 - Eliminate invader trees and shrubs
 - Spur more vigorous growth
- Demonstrate to and educate the community about using fire as a land management tool.



Safety Objectives

- Minimal smoke impact upon people, adjacent homes, roads, play areas, etc.
- Protect near-by trees from possible heat damage
- Allow safe public viewing
- Don't burn anything other than the trial gardens!



What propane tank?

Prescribed Fire - How?

- Create a Burn Plan or Burn Prescription: *Dictates* under what conditions you will burn
 - Wind speed and direction
 - Potential hazards
 - Ignition point
 - General weather conditions and forecast



Prescribed Fire – How?





Drip Torch to Ignite. A mixture of diesel (~70%) and gasoline (~30%).

Prescribed Fire – How?





Control: Back-pack water sprayer, flapper, rake, physical features (roads, trails, turf grass)

Use wind direction to aid in control





Lindberg Park, North Planting



The Burn Plan/Burn Prescription

- Potential Hazards: none
- Wind Direction: West ideal, NW or SW is ok
- Wind Speed: 3 20 mph
- Relative Humidity: lower the better
- Atmospheric Conditions:clear skies, stable forecast
- Staffing:a minimum of 4 trained people
- Lead Time:1-3 days dry sunny weather before burn
- Start Time: apx. 10 am Noon
- End Time: apx. 3 pm 4 pm at the extreme

Lindberg Park, North Planting



Mop Up

- Ignite any large unburned patches
- Do NOT ignite small unburned patches or individual plants
- Walk burn unit to ensure all flames are out















