

Glade Restoration

Job Sheet

Natural Resources Conservation Service (NRCS)
Missouri Department of Conservation (MDC)
University of Missouri Extension – The School of Natural Resources

For:	County:
Field(s):	Farm #:
Date:	Tract #:
Designed By:	Contact Information:

PURPOSE

Restoration of an existing degraded Glade, to provide suitable habitat for species dependant on this natural community.

DEFINITION

Glades or “barrens” are found throughout Missouri but are most prominent and abundant south of the Missouri River. Glades are generally treeless openings with exposed bedrock and shallow soils. Most often glades are located on steep south and west facing slopes. Today many glade communities are dominated by eastern red cedar due to disruption of a natural fire regime. In order to restore a glade complex, it is necessary to remove undesirable woody vegetation – primarily eastern red cedar. Prescribed fire is an integral part of this restoration process.



Photo courtesy of MDC

When restoring a glade community, refer to the Restoration and Management of Rare or Declining Habitats (643) standard for details. **Glade communities require Prescribe Burning (338) as part of this practice.** Never conduct a fire without a written prescribed burn plan.

SPECIFICATIONS

Site preparation is planned as follows (check all that applies):

- Site has been identified as a **Glade** complex – at least 50 percent of the field with shallow soils (<20 inches) or rock outcrops– using the Native Vegetation List for Missouri soils (see the eFOTG Section II, G. Ecological Site Info)
- Chemical control of invasive or aggressive herbaceous vegetation
- Mechanical methods for woody vegetation removal is chainsaw by hand – heavy equipment is not an acceptable restoration method*.
- Prescribed burning based on a current approved written prescribed burn plan
- Other:

*Refer to Restoration and Management of Rare or Declining Habitats (643) - General Specifications Applicable to all Habitats for details on heavy machinery use.

Existing woody vegetation will need to be removed to restore the desired plant community. A combination of practices may be used to reach your objectives, such as removal of woody vegetation by timber harvesting or by cutting and leaving woody vegetation on site as fuel for prescribed burning. After removal of woody vegetation canopy coverage will be less than 30%. Cut stumps, other than cedar or pine, should be treated with an approved herbicide to prevent resprouting. For more information on controlling and removing woody vegetation see Controlling Undesirable Trees and Shrubs (IS-MO666cut) information sheet.

Field	Planned Treatment	Species Removed	Percent Canopy Remaining	Time of Treatment

PLANTING

Implementation of Prescribed Burning and reducing woody vegetation cover will usually restore plant communities on these rare habitats. Planting is not recommended until after evaluating the response of vegetation to these management practices. Refer to 643 for planting information and consult Area Biologist before recommending planting.

OPERATION AND MAINTENANCE: Care after Restoration

Prescribed burning is essential to the restoration and management of glade communities. Long term management is not feasible without prescribed burning even if other management methods are used.

First year maintenance: The use of approved herbicides may be needed to control noxious weeds and undesirable plants during the establishment period. Avoid the use of broad spectrum herbicides, instead spot treat infestations with a selective herbicide.

Long-term Management: Once the glade is restored, prescribed fire will be applied as necessary to maintain the glade community.

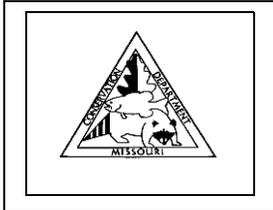
REFERENCES:

Refer to the following job sheets, information sheets or detailed management plan for additional information.

JS-BIOL-20 Native Forb and Non-native Legume Interseeding
 JS-BIOL-23 Woody Cover Control- Prairie/Glade/Savanna
 JS-MO612 Tree and Shrub Establishment
 IS-MO338 Prescribed Burning Information Sheet
 IS-MO643G Glade Information Sheet

IS-MO643P Prairie Information Sheet
 IS-MO643S Savanna Information Sheet
 IS-MO643W Open Woodland Information Sheet
 IS-MO666cut Controlling Undesirable Trees and Shrubs

Comment:



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