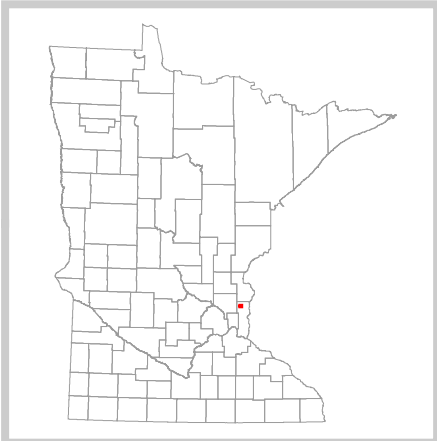
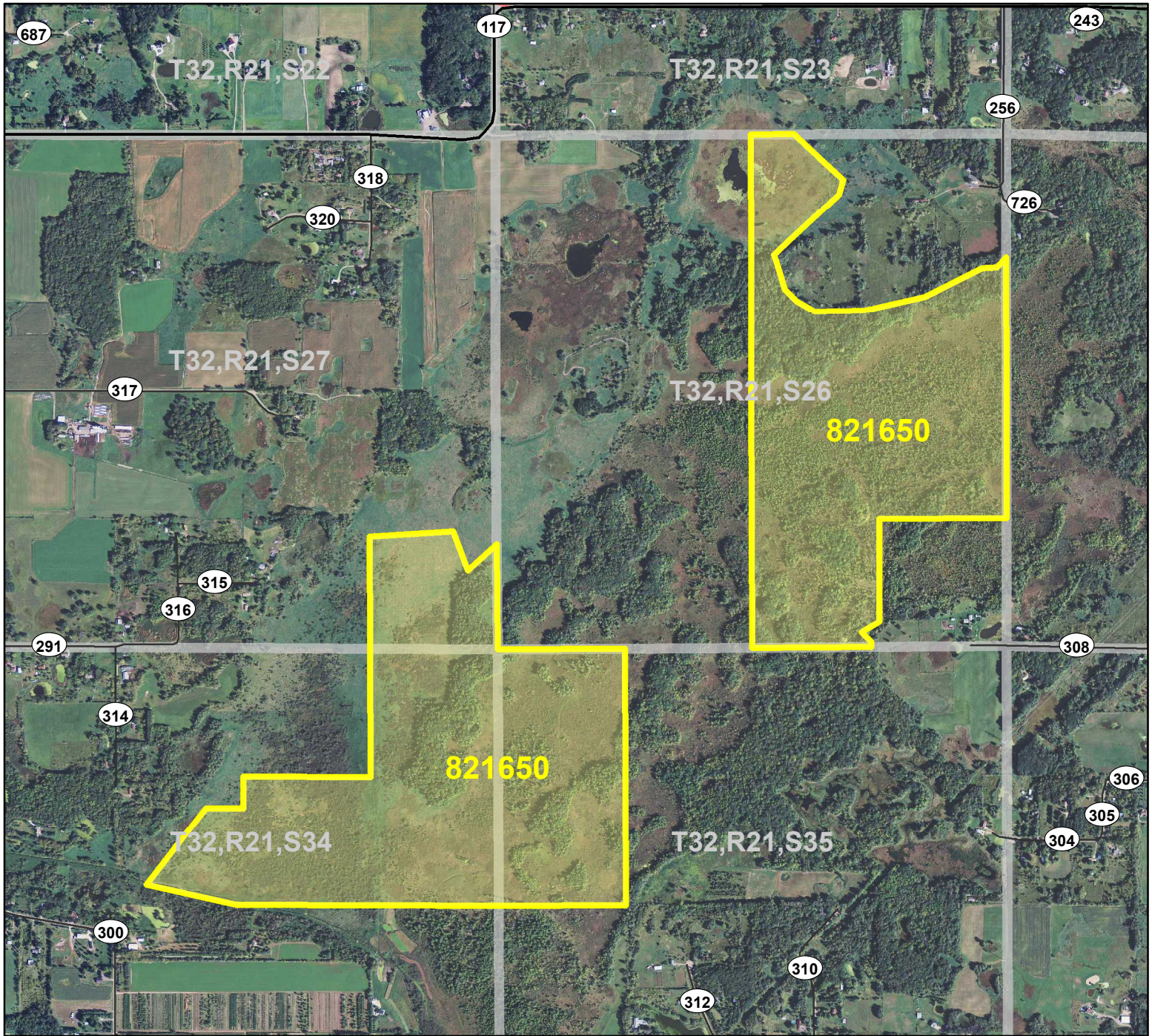







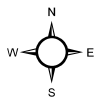
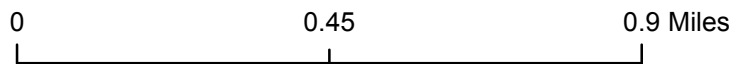
HCVF Site 821650

Hardwood Creek WMA, Washington County



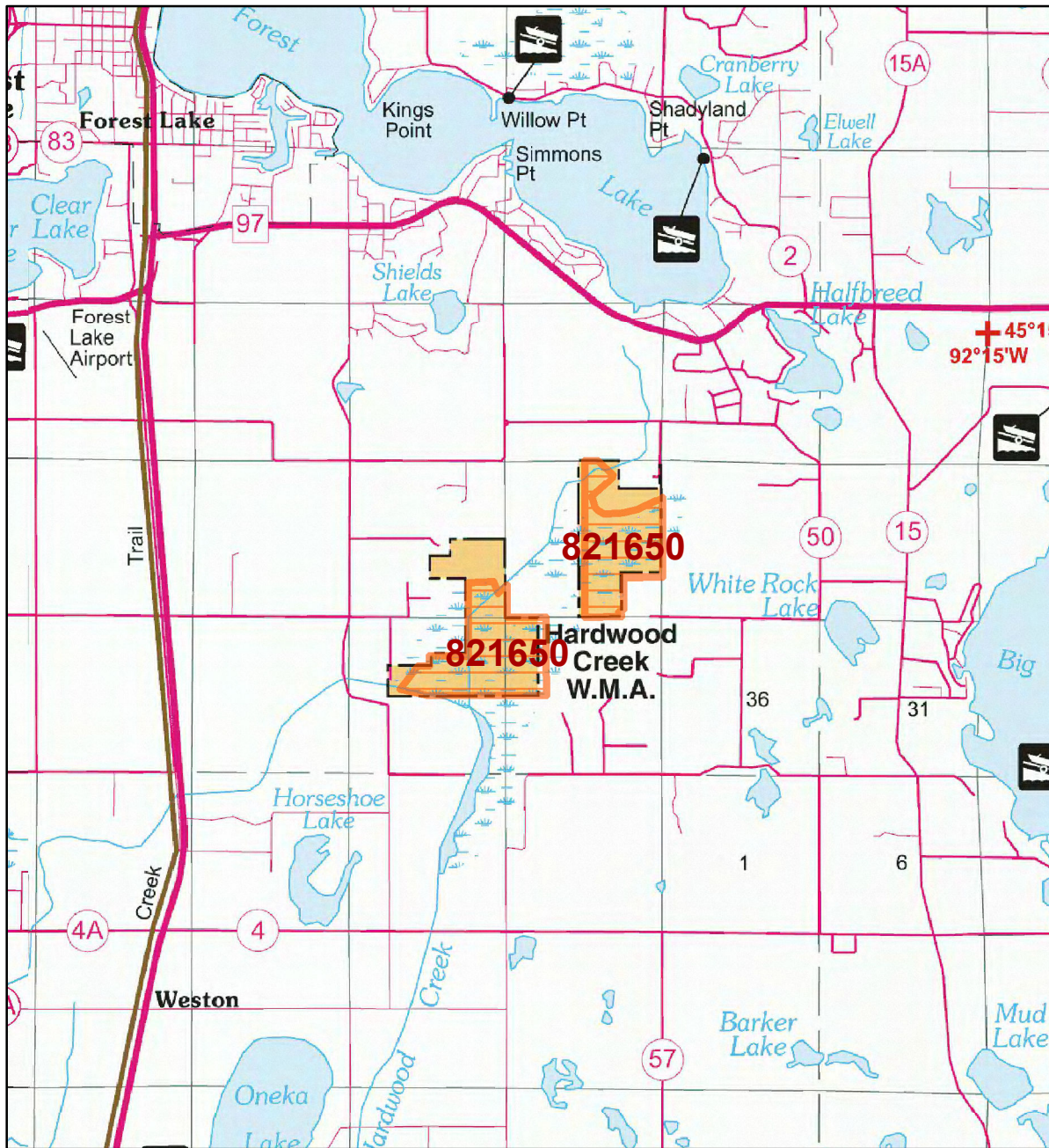
Legend

-  County Highways
-  Municipal, Township or Other Roads
-  Ramps
-  HCVF Site
-  PLS Sections

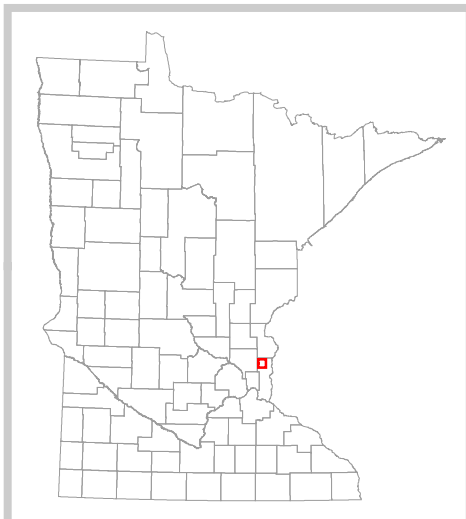


HCVF Site 821650

Hardwood Creek WMA, Washington County



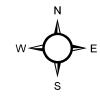
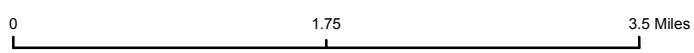
- LEGEND**
- HCVF Site**
- MAP EXPLANATION**
- LAND OWNERSHIP**
- County Land
 - Recreation Area under 40 acres
 - State Forest Land
 - State Park and Recreation Land
 - State Wildlife Management Area Land
 - W.M.A.'s under 40 acres
 - State Scientific & Natural Area Land
 - S.N.A.'s under 40 acres
 - National Waterfowl Production Area
 - N.W.P.A.'s under 40 acres
 - National Forest, Park, Wildlife Refuge & Recreation Land
 - Bureau of Indian Affairs Land
- BOUNDARIES**
- County Unit Boundary
 - State Unit Boundary
 - National Unit Boundary
- TRAILS AND FOREST ROADS**
- State Trail
 - State Forest Road
- DESIGNATED WATERWAYS**
- State Trout Stream
 - State Canoe and Boating Route
 - State Wild, Scenic & Recreational River (also designated Canoe & Boating Route)
 - National Wild, Scenic & Recreational River (also designated Canoe & Boating Route)
- FACILITIES**
- D.N.R. Office
 - Travel Information Center
 - Rest Area (with facilities)
 - Rest Area (limited facilities)
 - Campground
 - Watercraft Camping
 - Equestrian Camping
 - Water Access
 - Carry-in Access
 - Dam (on designated canoe route)
 - Fishing Pier
 - Overlook
 - Parking
 - Historic Site
 - Geologic Feature
 - Fish Hatchery
 - Forestry Nursery
 - National Great River Road
 - State Great River Road
- NOTE: Some of the features defined in this map explanation may not occur on the map.



The PRIM series was developed using funds provided through the Legislative Commission on Minnesota Resources (LCMR).

Base information was compiled from 1:100,000 series U.S. Geologic Survey planimetric maps.

Facility and ownership information was compiled from the following sources: Minnesota Department of Natural Resources, Minnesota Department of Transportation, State Planning Agency, Minnesota Historical Society and the respective counties.



Land ownership categories on this map are in some cases outdated. HCVF sites are on DNR-managed land only; DNR HCVF sites have not been identified on other ownerships.



HCVF Informational Report

Report Run: September 3, 2013

General Information

HCVF #: 821650

HCVF Name: Hardwood Creek WMA

Acres of HCVF site: 442.93

County: Washington

Data edited by: Region 3 HCVF Team

Role: Region 3 HCVF Team

Date edited on: 2013-07-24

Corresponding Land Administrator(s): FAW

Management Unit Name(s) (if applicable): Hardwood Creek WMA

HCVF Summary

This site contains a large wetland complex within a NE/SW-trending glacial meltwater channel, now filled with outwash. Minerotrophic sedge peats have accumulated. Vegetation is a mosaic of conifer swamp (FPs63a), shrub swamp (WMn82a), wet meadow (OPn92), and maple-basswood forest (MHs38c), which is the best maple-basswood forest in the county.

HCVs known to be present that factored into HCVF designation.

FSC expects DNR to maintain HCVs within designated HCVFs. Because HCVF boundaries are not the same as the larger, multi-ownership MBS Sites, this list will differ from the values identified during the MBS Survey.

HCV1e (Rare species concentration): vascular plant species; HCV3a (G1 or G2 plant community): FPs63a [A rank, 1987]; HCV3b (S1 or S2 plant community): FPs63a [A rank, 1987], MRn83 [no rank]; HCV3c (Special S3 plant community): MHs38c [A rank, 1987].

Management Considerations

Overall management objectives for the entire HCVF:

It will be important to maintain the hydrology of the wetland sites, especially FPs63a that depends on groundwater flow to maintain its peat soils. Retaining older forest canopy in the small amount of upland maple-basswood forest present on site would maintain this HCV and uneven aged management would be appropriate. Invasive species management may be necessary in both the uplands and lowlands.

Management direction from the following sources was considered in developing the above recommendations:

No information entered.

Are the HCVs within this HCVF likely to benefit from coordination with adjacent landowner(s)?

Yes

This HCVF was flagged by the Regional HCVF Team as warranting cross-ownership coordination efforts. The specific HCVs likely to benefit from such coordination with adjacent landowners are identified below.

There are about 20 landowners that surround the HCVF site, some of which appear to have natural vegetation. These landowners would be good targets for management coordination to enhance any and all HCVs. Most of the HCVs are rare native plant communities, which all extend to and are mapped on private land.

General Comments

The HCVF site is smaller than the MBS site because wthe HCVF site includes only state land only.

Reference to rare plants and animals, Minnesota Biological Survey Sites of Biological Significance and mapped native plant communities are records maintained in the Minnesota DNR's Natural Heritage Information System (NHIS). A date of information is associated with each record. The NHIS is continually updated as new information becomes available. The lack of data listed for any geographic area should not be construed to mean that no significant features are present.

... Report End ...