BIG WOOD LAKE SENSITIVE AREA SURVEY REPORT AND MANAGEMENT GUIDELINES



This document is to be used with its companion document "Guidelines for protecting, maintaining, and understanding lake sensitive areas"

Big Wood Lake (Burnett Co.) Integrated Sensitive Area Survey Report

Date of Survey:	28 July 1998	Number of Sensitive Areas: 16
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Lake Sensitive Area Survey results identified sixteen areas that merit special protection of the aquatic habitat. These areas of aquatic vegetation offer critical or unique fish and wildlife habitat. These habitats provide the necessary seasonal or life stage requirements of the associated fisheries, and the aquatic vegetation offers water quality or erosion control benefits to the body of water.

Wild rice (*Zizania sp.*) was documented in sensitive areas "I, J, K and L". Wild rice holds very important niche in the lake ecosystem from both a human and wildlife standpoint. Care should be taken to allow for the proliferation of these rice stands.

During this survey there were no documented occurrences of Purple Loosestrife. However, the threat of Purple Loosestrife is always a concern and should be dealt with immediately. Methods for control are to remove the entire plant before it produces seeds or by cutting the flower head and spraying with an approved herbicide. You should contact the Department before any of these methods are implemented.

The reader should consider that any buffer that does not extend back from the waters edge at least 35' is not providing adequate protection for water quality and should be expanded to at least 35'. Local zoning ordinances and lakes classification systems have tried to provide better guidelines pertaining to buffer widths and set backs based on lake type. Landowners are encouraged to go beyond the minimum requirements laid out by zoning and consider extending buffer widths to beyond 35' and integrating other innovative ways to capture and reduce the runoff flowing off from their property while improving critical shoreline habitat. Berms and low head retention areas can greatly increase the effective capture rate from developed portions in addition to that portion captured within the buffer.

Site conditions may dictate that a buffer has to be much wider than 35' to be effective at capturing the sediments and nutrients running off the developed portions of the shoreline. If the shoreline is steeply sloped (>7%slope) greater widths should definitely be used.

No mowing should take place within the buffer area (with the exception of a narrow access trail and small picnic area), and trees and shrubs should not be cut down even when they become old and die; because they provide important woody debris habitat within the buffer zone as well as aquatic habitat when they fall into the lake.

The following is a brief summary of the Big Wood Lake sensitive area sites and the management guidelines. Also, the "Guidelines for Protecting, Maintaining, and Understanding Sensitive Areas" provides management guidelines and considerations for different lake sensitive areas (Attached).

I. Aquatic Plant Sensitive Areas

Sensitive areas contain aquatic plant communities, which provide important fish and wildlife habitat as well as important shoreline stabilization functional values. Sensitive areas provide important enough habitat for the Big Wood Lake ecosystem that conservation easements, deed restrictions, or zoning should be used to protect them. Management guidelines for aquatic plant sensitive areas are (unless otherwise specifically stated):

1. Limit aquatic vegetation removal to navigational channels no greater than 25 feet wide where necessary, the narrower the better. These channels should be kept as short in length as possible and it is recommended that people do not completely eliminate aquatic vegetation within the navigation channel; but instead only remove what is necessary to prevent fouling of propellers to provide access to open water areas. Chemical treatments should be discouraged and if a navigational channel must be cleared, pulling by hand is preferable over mechanical harvesters where practical.

- 2. Prohibit littoral zone alterations covered by Wisconsin Statutes Chapter 30, unless there is clear evidence that such alterations would benefit the lake's ecosystem. Rock riprap permits should not be approved for areas that already have a healthy native plant community stabilizing the shoreline and property owners should not view riprap as an acceptable alternative in these situations.
- 3. Leave large woody debris, logs, trees, and stumps, in the littoral zone to provide habitat for fish, wildlife, and other aquatic organisms.
- 4. Leave an adequate shoreline buffer of un-mowed natural vegetative cover and keep access corridors as narrow as possible (preferable less than 30 feet or 30% of any developed lot which ever is less).
- 5. Prevent erosion, especially at construction sites. Support the development of effective county erosion control ordinances. The proper use of Best Management Practices (BMP's) will greatly reduce the potential of foreign materials entering the waterway (i.e. silt, nutrients).
- 6. Strictly enforce zoning ordinances and support development of new zoning regulations where needed.
- 7. Eliminate nutrient inputs to the lake caused by lawn fertilizers, failing septic systems, and other sources.
- 8. Control exotic species such as purple loosestrife.

Resource Value of Site A

Sensitive area A is located along the northern shoreline of Big Wood Lake, encompassing a small bay and the entrance of the Wood River. This area covers approximately 1,200 feet of shore.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat. The emergent, floating and submergent plant community structure of Sensitive area A includes: **Emergents**; reed canary grass (Phalaris arundinacea), hardstem bulrush (Scirpus acutus), softstem bulrush (Scirpus validus), bur-reed (Sparganium sp.), narrow leaf cattail (Typha angustifolia) and broad leaf cattail (Typha latifolia). **Floating**; duck weed (Lemna sp.), forked duckweed (Lemna trisulca), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site B

Sensitive area B encompasses the northeastern bay and shoreline of Big Wood Lake. This area covers approximately 2,400 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area B includes: **Emergents**; reed canary grass (Phalaris arundinacea), hardstem bulrush (Scirpus acutus), softstem bulrush (Scirpus validus), bur-reed (Sparganium sp.), narrow leaf cattail (Typha angustifolia) and broad leaf cattail (Typha latifolia). **Floating**; duck weed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana). Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site C

Sensitive area C is located along the eastern shoreline in the northern end of Big Wood Lake. This area encompasses the approximately 1,800 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area *C* includes: **Emergents**; reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), softstem bulrush (Scirpus validus), three square sedge (Scirpus americanus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; yellow pond lily (Nuphar advena) and white water lily (Nympahaea odorata). **Submergents**; coontail (Ceratophyllum demersum), elodea, bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), long leaf pondweed (P. nodosus), sago pondweed (P. pectinatus) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site D

Sensitive area D is a mid lake sunken hump which comes within a couple of the surface, located near the eastern shoreline of Big Wood Lake.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent and submergent plant community structure of Sensitive area D includes: **Emergents**; reed canary grass (Phalaris arundinacea) and hardstem bulrush (Scirpus acutus). **Submergents**; coontail (Ceratophyllum demersum), northern milfoil (Myriophyllum sibiricum) and bushy pondweed (Najas flexilis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site E

Sensitive area E is located in a small bay along the eastern shoreline of Big Wood Lake. This area encompasses the approximately 700 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area E includes: **Emergents**; reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site F

Sensitive area F is located in a small bay along the eastern shoreline of Big Wood Lake. This area encompasses the approximately 600 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area F includes: **Emergents**; reed canary grass (Phalaris arundinacea), pickerelweed (Pontederia cordata), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**: duckweed (Lemna sp.), forked duckweed (Lemna trisulca), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site G

Sensitive area G is located in a large bay along the eastern shoreline of Big Wood Lake. This area encompasses the approximately 1,800 feet of shoreline. This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area G includes: **Emergents**; reed canary grass (Phalaris arundinacea), pickerelweed (Pontederia cordata), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), soft stem bulrush (Scirpus validus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site H

Sensitive area H is a small mid lake hump located in the southern basin of Big Wood Lake.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area H includes: **Emergents;** reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus) and bur-reed (Sparganium sp.). **Floating**; white water lily (Nympahaea odorata). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site I

Sensitive area I is a small located along the southeastern shore of Big Wood Lake. This area encompasses approximately 900 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area I includes: **Emergents**; wild rice (Zizania aquatica), reed canary grass (Phalaris arundinacea), pickerelweed (Pontederia cordata), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), softstem bulrush (Scirpus validus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata) great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis). Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site J

Sensitive area J is located along the southeastern shoreline of Big Wood Lake. This area encompasses approximately 1,000 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area J includes: Emergents; wild rice (Zizania aquatica), reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). Floating; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela watermeal (Wolffia sp.). polyrhiza) and Submergents; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site K

Sensitive area K is located along the southern shoreline of Big Wood Lake. This area encompasses approximately 900 feet of shoreline. This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area K includes: Emergents; wild rice (Zizania aquatica), reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). Floating; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). Submergents; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site L

Sensitive area L is located along the southeastern shoreline of Big Wood Lake. This area encompasses approximately 1,800 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area L includes: **Emergents**; wild rice (Zizania aquatica), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents:** coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site M

Sensitive area M is located along the western shoreline of Big Wood Lake. This area encompasses approximately 600 feet of shoreline.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area M includes: **Emergents**; reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site N

Sensitive area N is a small island located in the southeastern area of Big Wood Lake.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area N includes: **Emergents**; reed canary grass (Phalaris arundinacea), smartweed (Polygonum sp.), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; yellow pond lily (Nuphar advena) and white water lily (Nympahaea odorata). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site O

Sensitive area O is located along the western shoreline of Big Wood Lake, encompassing the exit of the Wood River. This area covers approximately 1,600 feet of shoreline. This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area O includes: **Emergents**; reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), soft stem bulrush (Scirpus validus), bur-reed (Sparganium sp.) and broad leaf cattail (Typha latifolia). **Floating**; duckweed (Lemna sp.), yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata), great duckweed (Spirodela polyrhiza) and watermeal (Wolffia sp.). **Submergents**; coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), floating leaf pondweed (P. natans), long leaf pondweed (P. nodosus), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii), flat stem pondweed (P. zosteriformis) and wild celery (Vallisneria americana).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.

Resource Value of Site P

Sensitive area P is located around two centrally located islands in Big Wood Lake.

This area provides important habitat for centrarchid (bass and panfish) and esocid (northern pike) spawning and nursery areas. This area also provides important habitat for forage species. Wildlife also are reliant upon this area for habitat. Eagles, loons, herons, waterfowl, songbirds, furbearers, turtles, and amphibians benefit from this valuable habitat.

The emergent, floating and submergent plant community structure of Sensitive area P includes: **Emergents**; reed canary grass (Phalaris arundinacea), arrowhead (Sagittaria sp.), hardstem bulrush (Scirpus acutus), three square sedge (Scirpus americanus), soft stem bulrush (Scirpus validus) and bur-reed (Sparganium sp.). **Floating**; yellow pond lily (Nuphar advena), white water lily (Nympahaea odorata) and watermeal (Wolffia sp.). **Submergents**; water marigold (Bidens beckii), coontail (Ceratophyllum demersum), elodea, northern milfoil (Myriophyllum sibiricum), bushy pondweed (Najas flexilis), large leaf pondweed (Potamogeton amplifolius), curly leaf pondweed (P. crispus), floating leaf pondweed (P. natans), long leaf pondweed (P. nodosus), sago pondweed (P. pectinatus), clasping leaf pondweed (P. richardsonii) and flat stem pondweed (P. zosteriformis).

Chemical treatments and mechanical harvesting should be limited to navigational channels only.