THE FLORA OF BENZIE COUNTY

by

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1985

PART II:

GYMNOSPERMS AND MONOCOTS

Rich hardwoods. Common, often locally abundant, especially around old 'sugar bush' where human activity has reduced the amount of deer browsing. It is heavily browsed on by deer in most of the county. 217 Hooker Bridge.
1. **Abies balsamea** (L.) Miller. Balsam Fir.

Swamp hardwoods, cedar swamps, exposed moraine bluffs along Lake Michigan with white cedar. Common, locally abundant. 455 Bank Platte River, west of Route 22; 636 Aral, cedar swamp.

2. **Larix laricina** (DuRoi) K. Koch. Tamarack, Eastern Larch.

Wet boggy areas. Common, locally abundant. It does not appear to be as common as formerly as the result of saw-fly infestations as well as logging. 794 Deadstream swamp.


Old dune soils, relic beaches and bluffs. Common, often locally abundant. 9 Oak-pine forest just north of Platte River Campground, Sleeping Bear Dunes Lakeshore.

5. **Pinus strobus** L. White Pine.

Oak-pine forests, swamps, stabilized old dunes and relic beaches. Common. 788 Platte River area north of Route 22; 959 Aral dunes.

"We cut a big pine stub. I call it a stub 'cause it had only one limb on it, it broke off at the top, and it had four 16's in it. (64 feet). The log was lacking one inch of being four feet in diameter at the end of the top log. The book-keeper put it in the paper." Bob Bailey, conversation, August 24, 1965.

"The biggest tree I ever seen here known of being cut, was cut down to Maple Grove by the M. and N. E. Railroad. It was a white pine ten foot on the stump to cut it. But it tapered like a lead pencil and it was only about seven foot in diameter at the top of a sixteen foot log." Conversation with Jake Long, July 17, 1965.

Seedlings are locally established near planted trees. Occasional.

Other species in the Pinaceae seeding in and producing seedlings include Picea abies (L.) Karsten, Norway Spruce (Gall); Picea glauca (Moench) A. Voss, White Spruce, 2238, 2548 (Gall); Pinus nigra Arnold, Austrian Pine (Tesaker); Pinus rigida Mill., Pitch Pine (Tesaker); Pseudotsuga menziesii (Mirb.) Franco, Douglas Fir, 2240 (Gall, 2859 Route 22 just south of Trail's End Road).

7. Picea mariana (Miller) BSP. Black Spruce.

Sphagnum bogs, swamp forests. Local, not common.
425 Swamp just east of Platte River Campground, Sleeping Bear Lakeshore.


Hardwood forests and moist but not wet swamp forest. It was formerly much more abundant than today according to conversations with early settlers and loggers. Its inability to sprout from stumps and its more precise seedling requirements have limited its ability to survive and compete after logging.
232 Hooker Bridge.
1. **Juniperus communis** L. Common juniper.

   Open dunes to semi-open oak-pine woods. Common to locally abundant.
   113 Dunes just north of Platte River Campground, Sleeping Bear Dunes Lakeshore.


   Open dunes, locally abundant in open calcareous bogs. Common.
   103 Dunes just north of Platte River Campground, Sleeping Bear Dunes Lakeshore.

3. **Thuja occidentalis** L. White Cedar, Arbor Vitae.

   Swamps, locally abundant. Common in County.
   229 Hooker Bridge.
TYPHACEAE


Marshes, local. Frankfort, Honor, Grass Lake.
525 South side of Frankfort, marsh; 1957 Besie River, Grass Lake Campground.

2. *Typha latifolia* L. Cat-tail.

Margins of streams, lakes, ponds, marshes, ditches. Common, locally abundant.
441 Hooker Bridge.
SPARGANIACEAE


Margins of streams. Occasional, locally abundant. 1750 Otter Creek (Gall); 1960 Betsie River, Grass Lake Campground; 2435 Stevens Lake.


Lake margin. 2436, 2437, 2438, 2439 Shore of Stevens Lake, in about 3 feet of water. Locally abundant. Only station.


Margins of lakes, ponds, ditches. Frequent. 1104 Deadstream Road; 1473 Pond edge, Homestead Road; 1516 Margin Deer Lake; 2204 Grass Lake Dam; 2652 Fuller Lake, margin of; 2753 Outlet to Deer Lake.


River margins and lake shores. Common. 869 Betsie River near Route 31; 1011 Betsie River west of Benzonia; 1410 Upper Platte River; 1536 Edge of Betsie Lake, Elberta; 1684 shore area, Upper Herring Lake.


2828 Edge of receding pond north of Martin Road. Locally abundant. Only station.
1. **Potamogeton amplifolius** Tuckerman. Pondweed
Lakes. Frequent.
1344 Garly Lake; 1805 Turtle Lake; 1886 Crystal Lake (Gall); 1887 Crystal Lake (Gall); 2343 Crystal Lake (Gall).

2. **Potamogeton crispus** L. Pondweed
Lakes, small streams. Occasional.
1374 Small stream near Cherry Hut, Beulah.

3. **Potamogeton epihydrus** Raf. Pondweed
1008 Betsie River, west of U.S. 31 bridge. Only station.

Lakes. Occasional.
1689 Lower Herring Lake; 1892 Crystal Lake (Gall).

Lakes. Frequent.
1524 Bass Lake; 1814 Turtle Lake; 1889 Lake Michigan (Gall); 2840 Lime Lake.

Small streams. Occasionally locally abundant.
1267 Otter Creek; 1615 Betsie River outlet of Grass Lake.

7. **Potamogeton gramineus** L. Pondweed.
Lakes. Common.
796 Little Platte Lake; 860 Platte Lake; 1289 Pigeon Lake; 1370 Lake Ann; 1493 Little Platte Lake; 1495 Mud Lake; 1678 Lower Herring Lake; 1731 Lake Ann; 1787 Long Lake; 1797 Little Platte Lake; 2026a Pearl Lake; 2355 Otter Creek (Gall); 2389 shallow water, Turtle Lake; 2739 Rush Lake.

8. **Potamogeton illinoensis** Morong. Pondweed.
Lakes. Frequent.
1350 Rush Lake; 1351 Rush Lake; 1370 Grass Lake; 1492 Round Lake; 1677 Lower Herring Lake; 1677a Lower Herring Lake; 1796 Little Platte Lake.
POTAMOGETONACEAE (Cont.)


Lakes, also slow streams. Common.
1025 Grass Lake dam; 1026 Grass Lake dam; 1352 Rush Lake; 1511 Deer Lake; 1687 Upper Herring Lake; 1727 Lake Ann; 1775 Long Lake; 1890 Deadstream; 1806 Turtle Lake; 2026 Pearl Lake; 2027 Pearl Lake;


1620 Lost Lake, only station.


Lakes, rivers, slow streams. Common.
797a Deadstream; 797b Deadstream; 797c Deadstream (different specimens from same locality); 870 Betsie River west of U.S. 31 bridge; 912 Platte River; 913 Platte River; 1009 Betsie River; 1267a Otter Creek; 1517 Deer Lake; 1679 Lower Herring Lake; 1688 Upper Herring Lake; 1728 Lake Ann; 1788 Long Lake; 1789 Long Lake; 1888 Crystal Lake (Gall).


Lakes. Occasional.
1772 Long Lake; 2563 Twin Lakes.

13. Potamogeton richardsonii (Bann.) Rydb. Pondweed.

Lakes and streams. Locally abundant.
844 Platte River; 845 Platte River; 1518 Deer Lake; 1676 Lower Herring Lake; 1791 Little Platte Lake.


Recorded for Benzie County in Voss's Michigan Flora, Part 1. Stated habitat is shallow and deep water of lakes, ponds, and rivers.


1813 Turtle Lake, only station.


Recorded for Benzie County in Voss's Michigan Flora, Part 1. Stated habitat is rivers and streams, especially cold, spring-fed waters. There is apparently some question about its proper status.
POTAMOGETONACEAE (Cont.)

17. Potamogeton zostericiformis Fern. Pondweed.

Lakes, Locally abundant.
1371 above Grass Lake dam; 1372 above Grass Lake dam; 1373 above Grass Lake Dam; 1494 Little Platte Lake.

Lakes, shallow water. Common, locally abundant.
1369 Grass Lake; 1491 Mud Lake; 1682 Upper Herring Lake;
1726 Lake Ann; 1777 Long Lake; 1792 Little Platte Lake;
1807 Turtle Lake; 2025 Pearl Lake; 2804 Little Platte Lake;
2725 Upper Woodcock Lake.
1. **Scheuchzeria palustris** L.


2. **Triglochin maritimum** L. Arrow-grass.

   Open marshes and bogs. Local, not common, usually only a few plants, occasionally abundant. 1213 Deadstream bog; 1326 cranberry bog 1/2 mile south of Cooper Road; Noted in small open bog in Aral cedar swamp; 1869 Deadstream bog (Gal1).

3. **Triglochin palustre** L. Arrow-grass.

   Wet marshy shores. Local, not common. An easy plant to overlook, probably more common than our records indicate. 1700 Marshy swale, Crystal Lake; 1671 Marshy open sandy shore; Lower Herring Lake; 2815 Wet sand, small pond, just south of Point Betsie Light House.
1. **Alisma plantago-aquatica** L. Water-plantain.

Marshy shores, swamp hardwoods. Local, often abundant. 500 River road bridge at Adams Road. Noted by marina near Elberta.

2. **Sagittaria cuneata** Sheldon. Arrowhead.

Shallow lake shores. Occasional. 1776 Long Lake.

3. **Sagittaria graminea** Michaux. Arrowhead.

Shallow lake shore. Occasional. 1793 Little Platte Lake, 2480 Harendeen Lake, locally in fruit.


Ditches, Lake shores, and stream margins. Common. 415 Deadstream road ditch; 847 Deadstream road ditch; 874 Betsie River above Dair's Mill; 905 Upper Platte River above Deadstream; 1270 Rush Lake; 1535 Betsie Lake; 1683 Upper Herring Lake; 1794 Little Platte Lake.
HYDROCHARITACEAE

1. **Elodea canadensis** Michaux. Elodea, Waterweed.
   
   Lakes and streams. Common.
   862 Betsie River above Homestead dam; 1486 Deadstream; 1732 Lake Ann; 2172 Lake Michigan beach; Aral; 2507 Lake Michigan, Aral.

2. **Vallisneria americana** Michaux. Wild Celery, Tape grass.
   
   Lakes and streams. Common.
   980 Loon Lake; 1044 Platte River west of Route 22; 1487 Deadstream; 1488 Deadstream; 2694 flowers with stalks, Little Platte Lake (Gall).

Lake Michigan Dunes. Locally common.
117 Lake Michigan dunes, just north of Platte River Campground, Sleeping Bear Lakeshore; 958 Dunes, Aral; 1014 Dunes, Point Betsie.


Old fields, roadsides, disturbed ground. Locally abundant, common, in county.
134 old field, Indian Hill Road, near junction of Saffron Road; 176 old field, Indian Hill Road, near junction of Saffron Road; 970, 971 Beulah, disturbed ground; 974 edge of muckland, Beulah; 1335 roadside, Lamb Road; 1609 roadside, Thompsonville-Nesson City Road; 1920 old field, Indian Hill Road near junction of Saffron Road.


Oak-pine forests, pine forests. Frequent.
1627 Oak-pine forest, Cinder Road; 2230, 2231 Oak-pine along Cinder Road, 1/2 mile east of Turtle Lake; 2265 Jack pine-Red pine stand, Aral; 2816 Dunes, Point Betsie.


Roadsides, ditches, marsh edges. Common.
780 muckland, Beulah; 1061 roadside, Platte River Point Road; 1064 roadside, Platte River Road; 1285 Moist roadside under shade, road to Pigeon Lake from Fowler Road; 1712 wet sandy shore, Lake Ann; 1998 ditch near Beulah Boat Shop, North Shore Crystal Lake Drive; 2049 Edge of sedge marsh, south of Cedar Run.

5. Agrostis hyemalis (Walter) BSP. Ticklegrass.

Roadsides, moist sandy shores, oak-pine forests. Locally common.
1032 roadside, Weldon Township; 1033 roadside, Weldon Township; 1277 roadside, road to Pigeon Lake; 1510 Deer Lake on old log on water; 1628 Oak-pine forest, Cinder Road; 1711 moist, sandy shore, Lake Ann; 1985 South side Milnichol Road, drying marsh; 2078 moist sandy shore, Stevens Lake; 2386 wet sandy border of pond, Thompsonville-Nesson City Road.

Dry fields, woods edges. Occasional.
1034 dry field, Weldon Township; 1919 forest edge, by pond, just east of junction of Route 669 and Almira Roads. This specimen appears to be a depauperate shade form of the species.

7. Agrostis stolonifera L. Creeping Bent.

Roadsides, marshes. Occasional.
1299 roadside near Eliza Lake; 1720 moist shady edge, Lake Ann; 2144 marshy area, Platte Lake; 2199 roadside, Beulah.


Moist, shaded swamps, roadsides, wet sandy shores. Occasional.
1030, 1031 Grass Lake dam; 1263 swamp south of junction of Dymond and Skinner Roads; 2233 moist shore, Turtle Lake.


2385 wet sandy shore of pond, along road to Nesson City from Thompsonville. Only station.

10. Ammophila breviligulata Fern. Beach grass.

Lake Michigan Dunes. Locally abundant on dunes.
102 Lake Michigan dunes just north of Platte River Campground, Sleeping Bear Lakeshore.


Roadsides, tops of high dunes. Occasional along roadsides.
Tops of high dunes, 1246 Aral, located by H. Gall; 2622 roadside, Route 22 near junction of Saffron Road; 2624 roadside, Platte River Point Road; 2625 parking lot, fish weir, Platte River Point Road.


Lake Michigan Dunes. Abundant in deflation zone of dunes.
259 Dunes, Aral.


Roadsides. Occasional.
1298 open roadside to Eliza Lake. 2656 sandy open road, near MNE, Lake Ann, abd.; 2695 old field near Dymond Road, abd.

Persisting from plantings. 2132 roadside, Indian Hill Road near junction of Saffron Road; 2356 old field, Sutter Road (Tesaker); 2457 Elberta dunes (Tesaker).

15. *Avena sativa* L. Oats.

Occasional on disturbed ground. 2310 spoil bank, Cold Creek settling basin, Beulah (Gall).


Hardwoods, Cedar swamps. Occasional. 1124, 1125 Cedar swamp, south of Cedar Run; 2455 Cedar swamp, edge of U.S. 31, east of Brundage; 2771 Cedar Swamp, Valley Road.

17. *Bromus ciliatus* L. Fringed Brome.

Sedge marshes and bogs. Occasional. 1519 Marshy sedge shore, Bass Lake; 2010 Belt Lake Swamp; 2657 Belt Lake bog; 2730 Upper Woodcock Lake, edge of cedar swamp.


Roadsides, fields, disturbed ground. Abundant. 177 old field, Indian Hill road near junction of Saffron Road; 360 roadside, Route 22 near Deadstream road; 1441 roadside, Nesson City-Thompsonville Road; 2148 Frankfort; 2149 roadside, Elberta Dunes; 2292 roadside, Frankfort golf course; 2196, 2197, 2198 edge, sidewalk, Beulah; 2194 beach, Crystal Lake, Beulah; 2655 Route 665 near Lake Ann, giant form.


2856 roadside, Platte River Point Road, north side of road about 1/2 way from Route 22 to point.


2193 Crystal Lake beach, Beulah.


Roadsides. Occasional. 1610 Thompsonville-Nessen City Road; 2071 roadside, Cinder Road, west of Bendon.
22. *Bromus tectorum* L. Downy Chess.

Roadsides, dunes, disturbed ground. Frequent, often locally abundant.
413 Dunes, Aral; 688 roadside, Deadstream road; 1561 alley, Frankfort; 2192 beach, Crystal Lake, Beulah; 2588 Crystal Lake beach, Beulah; 2858 disturbed area, sand dune, Platte River Point.


Edges of ponds, lakes, streams. Common, locally abundant.
717 swamp edge, Cooper road; 1017 swamp edge, Cooper road; 1018 swamp edge, Cooper road; 1090 edge of marsh, Elberta Yacht Basin, Betsie Lake; 1198 pond edge, just north of Platte River Campground, Sleeping Bear Lakeshore; 1105 Platte River near Deadstream; 1926 moist swale, under shade, Aral; 2315 mouth of Platte River; 2663 Pearl Lake, shallow water, locally abundant.


495 Elberta Dunes. Only station.


Lake Michigan Dunes, especially crest and lee of dunes, roadsides. Common.
1015 Dunes, Point Betsie; 1058 roadside, Platte River Point Road.


Roadsides. Occasional.
1102 roadside, Mick Road just east of Swamp Road; 1387 Swamp Road just south of Mick Road; 2012 Fawins Road near Belt Lake, roadside; 2778 roadside, Goose Road near U.S. 31.

27. *Cinna arundinacea* L.

Very local; 2567 edge of Long Road, swamp hardwood, only station.
28. **Cinna latifolia** (Goepp.) Griesb. Wood Reed Grass.

Cedar swamps. Frequent.
1126 Cedar swamp, Belt Lake; 1235 Cedar swamp north of Lake Ann; 1262 Cedar swamp south of junction of Dymond and Skinner Roads; 1640 Black Creek, under cedar; 2014 Cedar swamp, Belt Lake; 2270 swamp hardwoods, Roger's Road; 2605 shaded edge, Lost Lake.

29. **Dactylis glomerata** L. Orchard Grass.

Roadsides, disturbed ground. Common.
359 roadside, Deadstream road; 774 Beulah; 1145 roadside, North Shore Drive, Crystal Lake; 2447 disturbed ground by public access, Stevens Lake.

30. **Danthonia spicata** (L.) R. & S. Poverty Grass, Oatgrass.

Oak-pine forests, dry fields and roadsides, aspen and bracken stands. Common.
1036, 1037 dry fields, Weldon Township; 1300 roadside to Eliza Lake; 1303 open roadside near Eliza Lake; 1337 Lamb Road, former White Pine site; 1626 Oak-pine stand, Cinder Road; 1961 Grass Lake campground associated with aspen and bracken; 2229 Oak-pine forest, Cinder Road; 2271 hardwoods, well-drained slope, Lost Lake; 2647 Sandy open area, near Dymond Road, frequent.

31. **Deschampsia flexuosa** (L.) Beauv. Hair Grass.


32. **Digitaria ischaemum** (Schreber) Muhl.

2850 Lawn of Coho Salmon fish hatchery, near U.S. 31.

33. **Digitaria sanguinalis** (L.) Scop. Crab Grass.

Roadsides, waste places. Occasional, it appears to be becoming more common, and may be locally abundant.
504 Beulah; 1051 roadside, Platte River Point Road; 1483 Honor; 1771 Beulah; 2002 logging road to Lost Lake.
34. **Echinochloa crusgalli** (L.) Beauv. Barnyard grass.
   Roadsides. Occasional.
   1052 roadside, Platte River Point Road.

35. **Echinochloa muricata** (Beauv.) Fern. Barnyard grass.
   Wet disturbed ground, ditches. Fairly frequent, becoming more common.
   1119 disturbed soil, South Shore Platte Lake Road; 1354 drainage ditch, muckland, Beulah; 1530 disturbed ground, shore Betsie Lake near Elberta; 1665 roadside ditch, Deadstream Road; 1740 marsh, Elberta (Gall); 2280 Riverside Drive, Honor; 2325, 2326 Route 155 roadside, Frankfort (Gall); 2768 wet gravelly sand, gravel pit on Deadstream Road, Honor.

36. **Elymus canadensis** L. Wild Rye grass.
   Roadsides, wet sandy beaches. Occasional, but may be locally common.
   210 moist field, Beulah; 1048, 1049 roadside, Platte River Point Road; 2139 wet, sandy beach, Platte Lake; 2572 along Ann Arbor railroad, just off Beulah Park Drive.

37. **Elymus virginicus** L.
   2797 obank of Betsie River, between Benzoia and first bridge west.

38. **Eragrostis hypnoides** (Lam.) BSP.
   2800 roadside, River Road to Benzoia, by first bridge towards Frankfort. Locally abundant. Only station.

   2281 old cottage site, Otter Lake. 2648 old field, edge of cherry orchard, Indian Hill Road, frequent; 2729 curbside, Cherry Hut, Beulah.

   Roadsides. Fairly frequent, it may be locally abundant.
   1035 roadside, dry fields, Section 17 Weldon Township 1278 roadside, near Pigeon Lake.
41. **Eragrostis trichoides** (Nutt.) Wood. Love Grass.

Roadsides. Very local.  
2358 planted and spreading, south end Platte River Point Road - reported by A. Tesaker; 2484 persisting from planting near junction of Indian Hill and Saffron Roads; 2793 Cherry orchard, junction of Indian Hill and Saffron Roads.

42. **Festuca arundinacea** Schreber. Tall Fescue.

Roadsides and disturbed areas. Occasional.  
777 moist, abandoned muckland, Beulah; 972 edge muckland, Beulah; 2606 shaded roadside near junction of Swamp and Joyfield Roads.

43. **Festuca obtusa** Biehler. Nodding Fescue.

Hardwood edges. Occasional.  
1191 hardwoods, Route 22 near junction of Joyfield Road; 1918 hardwoods, Almira Road just east of Rt. 669.

44. **Festuca occidentalis** Hook.  

2855 Oak-pine forest, swale, north side Platte River Point Road at 1/2 way from Route 22 to Point.

45. **Festuca ovina** L. Sheep Fescue.

Roadsides, Occasional.  
1397 Deadstream Road; 2485 locally planted and persisting, junction Saffron and Indian Hill Roads.

46. **Festuca pratensis** Hooker. Meadow Fescue.

Roadsides, Fairly frequent.  
2534, 2535, 2536 roadside, junction Swamp and Joyfield Roads; 2264 roadside, Indian Hill road near junction of Saffron Road; 2458 roadside, Swamp Road, 1/4 mile south of Mick Road; 2549 Crystal Lake beach, Beulah.

47. **Festuca rubra** L. Red Fescue.

Roadsides, old fields, Oak-pine forest. Occasional  
316 Oak-pine stand just north of Platte River Campground, Sleeping Bear Lakeshore; 1442 roadside, Thompsonville-Nessen City Road; 2195 along streets, Beulah; 2364, 2423 old field near junction of Indian Hill and Saffron Roads.
GRAMINEAE (Cont.)

48. *Festuca saximontana* Rydb.

2764 Public access, Turtle Lake, frequent, only station.

49. *Glyceria borealis* (Nash) Batch.

2443, 2444, 2445, 2446 wet lake shore, Stevens Lake, very local.


Marshes. Local.
1995 marsh near junction of St. John's and Betsie River Roads; 2603 marsh, Betsie River and St. John's Roads.


Margins of ponds, lakes. Occasional.
1635, small grass-sedge marsh, east end of St. John's Road; 2541 edge of Betsie River, near bridge, River Road.

52. *Glyceria striata* (Lam.) Hitchc. Fowl Manna grass.

Moist hardwoods, bogs, cedar swamps, lake margins, ditches. Common.
64 moist hardwoods, Little Platte Lake; 84a moist hardwoods, Little Platte Lake; 1019 edge of cedar swamp, Cooper Road; 1020 edge of cedar swamp, Cooper Road; 1023 River Road swamp at first bridge east of Frankfort; 1024 River Road at first bridge east of Frankfort; 1284 wet margin, Pigeon Lake; 1429 open shore upper Platte River; 1884 Little Platte Lake, wooded bog (Gall); 1927 moist swale, Aral; 1928 hardwoods, Aral; 1996 calcareous bog, Belt Lake; 2179 cedar swamp, Deadstream road; 2449 Deadstream swamp; 2589 Otter Creek, cedar swamp.

53. *Holcus lanatus* L. Velvet grass.

Disturbed areas. Occasional.
778 abandoned muckland, Beulah; 973 abandoned muckland, Beulah.


1065 rich hardwoods, Case Road; 2780 hardwoods, Deadstream Road, between lakes.
55. *Koeleria macrantha* (Ledeb.) Schultes. June Grass.

Open stable dunes, roadsides. Common.
427 open dunes, just north of Platte River Campground,
Sleeping Bear Lakeshore; 954 open dunes, Point Betsie;
1196 Dunes, Aral; 1440 roadside, South Platte Lake Road.

56. *Leersia oryzoides* (L.) Sw. Cut Grass.

Lake shores, marshes. Fairly frequent, it may be locally common.
1528 shore, Betsie Lake; 1529 shore, Betsie Lake; 2048 sedge marsh, south of Cedar Run; 2140 wet sandy beach, Platte Lake; 2731 margin, pond by settling basin, Beulah.


Dry fields, roadsides. Occasional, locally abundant.
1279 roadside, dry fields, near Pigeon Lake; 1311 dry fields,
Indian Hill Road, near junction of Saffron Road; 1630 Milnichol Road, old field; 2092 old dry field north of Sweet Lake.


Roadsides and disturbed areas. Local.
2151 Riverside Drive, roadside, Honor; 2272 old State Road south of Point Betsie Road, roadside; 2500 open area by Homestead Dam; 2664 Homestead Dam, abundant.


2155, 2156, 2157, rich hardwoods, Aral; 2171 hardwoods, Joyfield road near Route 22; 1189, 1188 rich north hardwoods, Aral.

60. *Milium effusum* L. Tall Millet Grass.

Hardwoods. Common.
235 Hooker Bridge, hardwoods; 323 rich hardwoods, U.S. 31 near junction of Worden Road; 450 hardwoods, Hooker Bridge; 1549 rich hardwoods, Hooker Road near junction of Gudemoo Road; 1574 rich hardwoods, Elberita; 2864 Joyfield Road, hardwoods.

Sedge marshes, wet meadows. Occasional, but may be locally common.
1470 edge, Upper Woodcock Lake; 1481 wet sedge marshes, Round Lake; 1489 sedge marsh, Deadstream; 1717 sedge marsh, Lake Ann; 2175 wet sand, Lake Ann.


Roadsides under hardwoods. Occasional.
2039 roadside, hardwoods, near Lime Lake; 2045 roadside, moist wooded access to MNE Railroad, near Cedar Run; 2475 disturbed ground; 2842 margin of Lime Lake.

63. **Oryzopsis asperifolia** Michaux. Rice Grass.

577 Oak-pine forest, Platte River Campground, Sleeping Bear Lakeshore; 767 hardwoods, Route 669 south of Fowler Road; 768 hardwoods, Route 669 south of Fowler Road; 919 Oak-pine forest, Platte River Campground, Sleeping Bear Lakeshore; 922 hardwoods, Almira road just east of Rt. 669; 1931 Beech-maple hardwood, Aral; 2062 Oak-pine forest, Cinder Road; 2228 Oak-pine forest, Cinder Road.

64. **Oryzopsis racemosa** (Sm.) Hitchc. Rice Grass.

Hardwoods. Occasional.
238 hardwoods, Hooker Bridge; 1327 hardwoods, Fowler Road, west of Route 669; 2532 north hardwoods, corner of Fowler Road and Route 22.

65. **Panicum capillare** L. Witch Grass.

Old fields, roadsides. Frequent.
886 abandoned cornfield, junction of Lime and Fowler Roads; 1063 roadside, Platte River Point Road; 1495 roadside, dry field, Dymond Road; 2003 old logging road to Lost Lake; 2679 Homestead Dam, disturbed ground.


1329 Sandy field near boat access, Gary Lake. Only station.
   1197 roadside, open dunes area, just north of Platte River Campground, Sleeping Bear Lakeshore. Only station.

   2504 oak-pine forest, occasional, just north of Platte River Campground, Sleeping Bear Lakeshore. Only station.

   2285 open White Cedar swamp, Otter Lake access Road.

    Moist depressions, pond edges, bogs. Locally common.
    1206 roadside, by swamp, Thompsonville-Nessen City Road;
    1219 moist depression, Jack Pine flats, Aral; 1462 pond-swamp edge, Gonder Road, near Grand Traverse County line;
    1883 Milnichol Road, 1/4 mile east of Route 669; 1937 moist sandy soil, under Jack Pine, Dune flats, Aral;
    2015 calcareous bog, Belt Lake; 2792 lower slope of gravelly fossil beach 1-1/2 mile south of Aral.

    Oak-pine forests. Occasional.
    1336 under aspen, former White Pine site; 1461 Oak-pine forest, Cinder Road west of Bendon; 2099 Hulbert Road about 1 mile north of Cinder Road.

    Oak-pine forests, local.
    2226 oak-pine forest, about 1/2 mile east of Turtle Lake public access, Cinder Road.

    Lake shores. Occasional, locally common.
    1662 shore, Crystal Lake; 1710 moist sandy shore, Lake Ann.

    1529 wet lake shore, Bass Lake. Only station.
75. *Panicum milaceum* L. Broomcorn Millet.

2692, one plant along railroad near River Road and Route 22 junction.

76. *Panicum virgatum* L. Switch Grass.

Roadsides, wet lake shores. Frequent along roadsides, becoming more common.


Oak-pine forest. Fairly frequent.

78. *Phalaris arundinacea* L. Reed Canary Grass.

Open marshes, swamps, river margins. Common, often locally abundant.

79. *Phleum pratense* L.

Roadsides, fields. Common, often locally abundant.

80. *Phragmites australis* (Cav.) Steudel. Giant Reed.

Roadsides, Occasional.
81. **Poa alsodes** Gray.

2854 rich hardwoods, Aral. Locally abundant.

82. **Poa compressa** L. Canada Bluegrass.

Oak-pine forests, dunes, roadsides, beaches. Common.
98 oak-pine forest just north of Platte River Campground, Sleeping Bear Lakeshore; 115 Dunes, just north of Platte River Campground, Sleeping Bear Lakeshore; 781 gravelly beach, Crystal Lake; 1062 roadside, Platte River Point Road; 1195 Jack Pine deflation area, Aral; 1201 Oak-pine forest north of Platte River Campground, Sleeping Bear Lakeshore; 1252 high dunes, semi-shade, Aral; 1945 roadside, Platte River Point Road; 1925 roadside, Aral; 1935 fossil shingle beach, Aral; 2100 roadside, Hulbert Road Road about 1 mile north of Cinder Road; 2416 access road to Round Lake; 2424 old field, junction of Indian Hill and Saffron Roads; 2706 old field by fish weir, Platte River Point Road.

83. **Poa palustris** L. Fowl Meadow Grass.

Moist margins of ponds, lakes, moist meadows. Fairly frequent.
1232 shore Platte River near Deadstream; 1917 swamp edge of pond, Clark's Woods; 1947 Grass Lake campground, moist shade; 2040 moist slope near Lime Lake, local; 2187 edge Deadstream bog near Deadstream bridge.

84. **Poa pratensis** L. Kentucky Bluegrass.

Hardwoods, Oak-pine forests, roadsides, disturbed ground, river margins. Abundant.
361 roadside, Deadstream Road; 775, 776, 779 abandoned muckland, Beulah; 928 hardwoods, Route 22 near junction of Joyfield Road; 1039 roadside, Weldon Township; 1548 hardwoods, Hooker Road near junction of Gudemo's Road; 1608 roadside, South, Shore Platte Lake Drive; 1625 oak-pine forest, Cinder Road; 2063 Oak-pine forest, Cinder Road, west of Bendon; 2161 shore, Little Platte Lake, Sylvan Point.

85. **Poa saltuensis** Fern. & Wieg.

2578 rich hardwoods, in semi-shade, Aral; 2582 Cedar-hemlock swamp, Birch Point.
86. *Poa sylvestris* Gray.

1190 Route 22, near Manistee County line, rich hardwoods, locally abundant.


2164 hardwoods near Benzie High School; 2232 Oak-pine forest, Cinder Road, 1 mile east of Turtle Lake; 2531 N. hardwood, corner Fowler Road and Route 22.


Roadsides. Occasional.
1581 Haswell (Aral) Road near Aral; 1906 roadside, recently graded and filled, just north of Platte River Campground, Sleeping Bear Lakeshore; 2353 old field edge, junction of Indian Hill and Saffron Roads.

89. *Setaria glauca* (L.) Beauv. Yellow Foxtail Grass.

Roadsides, disturbed ground. Occasional.
1271 roadside, Rogers Road; 1704 roadside, Crystal Drive and Lake Streets.


Roadsides. Occasional, becoming more common.
1053 roadside, Platte River Point Road; 1653 Martin Road; 1690 roadside, Route 22, Platte River Campground, Sleeping Bear Lakeshore; 1449 old logging road near Lost Lake; 2462 abandoned cornfield, Elmira Road, very abundant.


Roadsides, local plantings, persisting.
2420 east end Sutter Road (Tesaker); 2419 Marshall Road, planted May 1958 (Tesaker); reported along Lake Ann Road.


Moist roadsides, lake shores. Occasional.
1050 roadside, Platte River Point Road; 1543 roadside, Route 22 just north of South Shore Platte Lake Road (Gall); 1672 moist marshy shore, Lower Herring Lake.


2642 Beech-maple hardwoods, local.

Roadsides. Frequent, becoming more common. It may be locally abundant.
1253 roadside, Frankfort; 1276 roadside, road to Pigeon Lake from Fowler Road; 1479 roadside, Indian Hill Road near Platte River Bridge; 2059 roadside, Cinder Road, west of Bendon; 2770 gravel pit by Honor, Deadstream Road.


2289 driveway, north shore Crystal Lake drive in crevices of cement driveway. Several plants.

96. *Zea mays* L. Indian Corn, Maize.

Disturbed areas, abandoned cornfields. Occasional.
2276 spoil bank near Cold Creek settling basin, Beulah (H. Gall).


1364, 1365, along stream from Grass Lake to Grass Lake Dam. Locally common in 1971. Not observed recently. This colony may have been the remains of a wildlife planting.
1. Carex albursina Sheldon.

Occasional.
1757 near Rodger's Hill pasture; 2583 rich moist hardwoods, Aral.

2. Carex aquatilis Wahl.

1398, 2181, 2182 Deadstream bog; 2017 Cranberry bog 1 mile west of Cooper Road; 2082 east end, Little Platte Lake; 2210, 2211 Betsie Bay near yacht basin, Frankfort.

3. Carex arctata Boott.

648 rich hardwoods; 1172 rich hardwoods, Hooker Road near junction of Gudemoos Road; 1287 hardwoods, Pigeon Lake area; 1915 hardwoods, Clark's Woods, just east of junction of Routes 610 and 669; 2528 hardwoods, junction of Fowler Road and M-22; 2584 moist hardwoods, Saffron Road.


190 Benzie County; 939 Calcareous bog, Belt Lake; 1016 edge of cedar swamp, Cooper Road; 1716 edge, shore, Lake Ann; 1932 ditch, South Shore Platte Lake Drive.

5. Carex bebbii (Bailey) Fern.

1531, 1532 margin, Betsie Lake, Elberta; 1669 marshy open shore, Lower Herring Lake; 1895 Otter Creek (Gall); 1912 cedar swamp, Clark's Woods, east of junction of Routes 610 and 669; 2005 Belt Lake bog; 2595 edge Cold Creek settling pond, Bendon.


2526, 2533 northern hardwoods, corner Fowler Road and M-22.

7. Carex brunnescens (Pers.) Poirst.

1575 swamp hardwoods, with some cedar, just west of junction of Route 115 and U.S. 31; 2147a forest bog north of Black Lake; 2160 Sylvan Point, Little Platte Lake; 2398 wet marsh, Grass Lake Dam.


752 edge, Round Lake.

1655 under White Cedar, Otter Creek swamp.

10. Carex communis Bailey

1192 hardwoods, Route 22 near Manistee County line; 1546 hardwoods, U.S. Forest Service demonstration area, Fowler Road; 2165 logging road, Clark's Woods, just east of junction of Routes 610 and 669; 2414 moist shaded shore of Round Lake; 2527, 2529 hardwoods, corner of Fowler Road and M-22.


1484, 1485 moist shore, Mud Lake, on log; 1592 pond edge, Thompsonville-Nessen City Road; 1955 margin Betsie River, Grass Lake Campground.

12. Carex convoluta Mack.

352 wooded swamp edge, about 1/2 mile east of junction of Indian Hill and Saffron Roads; 1904 hardwoods, Aral; 1904 hardwoods, Route 22 near Manistee County line; 1921 moist hardwoods, Sylvan Point, Little Platte Lake.

13. Carex crawfordii Fern.

1301 Margin Eliza Lake; 1576 swamp hardwoods, just west of junction of Routes 115 and U.S. 31; 1587 pond edge, Nessen City-Thompsonville Road.


1313 moist swale, rich hardwoods, near junction of Hooker and Gudemoos Roads; 1949 margin Betsie River, Grass Lake Campground.

15. Carex cristatella Britton.

1591 pond edge Nessen City-Thompsonville Road; 1968 marsh edge River Road, first bend west of Benzonia; 2539 semi-shaded marshy area, Betsie River bridge nearest Elberta, River Road.


1319 sedge-cranberry bog, 1/2 mile south of Cooper Road.
17. Carex curta

1192a hardwoods, Route 22 near Manistee County line; 1913 cedar swamp, Clark's Woods; 2398a wet marshy area near Grass Lake Dam.

18. Carex deweyana Sch.

921 hardwoods, Almira road just east of Route 669; 1176 hardwoods, Crystal Downs; 2530 hardwoods, corner of Fowler Road and Route 22.


2202 on rotting, floating log above Grass Lake Dam; 2396 marshy area above Grass Lake Dam.


1930 cedar swamp, Clark's Woods just east of junction of Routes 610 and 669; 2166 cedar swamp, Little Platte Lake; 2178 cedar swamp, Deadstream.


1414 moist swale, Jack Pine flats, Aral; 1415 dry shingle beach, Aral; 1520 moist open area, under cedar; 1893 fossil beach, Aral (Gall); 2502 Point Betsie dunes under cedar (Gall).

22. Carex flava L.

240 roadside, ditch, Indian Hill Road near junction of Saffron Road; 824 calcareous bog, Belt Lake; 1182 cedar swamp, Platte River, near Deadstream; 1224 South Shore Drive, Platte Lake, ditch; 1268 Cedar-Black Spruce swamp, Cooper Road; 1590 pond edge, Thompsonville-Nessen City Road; 1604 ditch, South Shore Platte Lake Road; 1719 moist shore, Lake Ann.

23. Carex folliculata L.

2051 bog along Thompsonville-Nessen City Road, associated with Woodwardia (Gall).

24. Carex garberi Fern.

957 Jack Pine Flats, Aral; 2217 moist shore Crystal Lake, South Shore Drive, west of Beulah.
25. Carex gracillima Sch.

667 under alder, swamp, Thompsonville-Nessen City Road; 1559 seep, edge hardwoods near junction of Hooker and Gudemoos Roads.


2413 shaded shore, Round Lake near Route 22.

27. Carex hystericina Willd.

291 cedar swamp, Honor; 334 cedar swamp, just south of junction of Dymond and Skinner Roads; 365a semi-open cedar swamp, east of Honor; 1341 shaded moist shore, Louise Lake; 1514 marshy edge, Deer Lake; 1601, 1602 ditch, South Shore Platte Lake Road; 1603 ditch, South Shore Platte Lake Road; 1649 ditch, Martin Road; 1715 moist sandy shore, Lake Ann; 1803 wet shore, Turtle Lake; 2028 marshy ground, south shore Lime Lake.


931 edge cedar swamp along MNE abandoned railroad, south of Cedar Run.

29. Carex intumescens Rudge.

367 wet woods, near Sylvan Point, Little Platte Lake; 664 swamp hardwoods, Thompsonville-Nessen City Road; 1894 Valley Road (Gall); 2007 rich hardwoods near Belt Lake; 2400 marshy area above Grass Lake Dam; 2594 moist roadside near Kuerth place, Indian Hill Road not far from North Branch.

30. Carex laevivaginata (Kuek.) Mack.

Recorded for Benzie County in Voss's Michigan Flora, Part 1. Stated habitat is swampy woods, swales, marshy woodland borders, streamsides in woods, very rarely in bogs.

31. Carex lanuginosa Michaux.

1187 wet marsh edge, Platte River, west of U.S. 31; 2440 wet sandy shore, Stevens Lake.

32. Carex lasiocarpa Ehrh.

1981 small swale, Betsie River Road, just north of St. John's Road; 2081 bog, east end Little Platte Lake; 2203 marsh along Betsie River above Grass Lake Dam; 2397 marsh above Grass Lake Dam.
33. **Carex leptalea** Wahl.

364 cedar swamp, west of Honor; 1178 cedar swamp, Platte River, west of U.S. 31; 1755 Otter Creek (Gall); 1896 Otter Creek, cedar swamp (Gall); 2169 edge of cedar swamp, Sylvan Point, Little Platte Lake.

34. **Carex leptonervia** Fern.

1565, 1566 small stream flat, swamp road, just south of Mick Road, associated with *Oxalis acetosella*; 2177 cedar swamp along Deadstream near U.S. 31.

35. **Carex limosa** L.

2088 bog, east end Little Platte Lake. One plant noted.

36. **Carex lupulina** Willd.

1314 wet swale, rich hardwoods, Hooker Road, near junction of Gudemoos Road. 2303 moist open meadow, Route 22 at Sutter's Corner.

37. **Carex muhlenbergii** Willd.

351 old field, Indian Hill Road, near junction of Saffron Road; 2056 Oak-pine forest, Cinder Road; 2061 Oak-pine forest, Cinder Road; 2096 roadside, Hulbert Road, 1 mile north of Cinder Road; 2426 roadside, Platte River Point Road; 2505 Platte River Campground, Sleeping Bear Lakeshore, by junction of Route 22 and Platte River Point Road; 2601 Oak-pine forest, Weldon Road.

38. **Carex oligosperma** Michaux.

1377 Gonder Road, pond edge, just north of St. John's Road; 1463 edge pond near Melansau County line, Gonder Road; 1980 small swale, Betsie River Road.

39. **Carex pedunculata** Willd.

2524 hardwoods, Fowler Road, near junction of M-22.

40. **Carex pensylvanica** Lam.

556 Oak-pine forest, just north of Platte River Campground, Sleeping Bear Lakeshore; 918 Oak-pine forest, just north of Platte River Campground, Sleeping Bear Lakeshore; 1407 sandy roadside near Bass Lake; 2159 Oak-pine forest along road to Bass Lake near Route 22.
41. Carex plantaginea Lam.
   367 rich hardwoods, Hooker Bridge; 603 rich hardwoods, Pioneer Road; 751 rich hardwoods, Elberta Hill.

42. Carex projecta Mack.
   2305 moist open meadow, Route 22 at Sutter's Corner.

43. Carex pseudo-cyperus L.
   1600 ditch, South Shore Platte Lake Road; 1642 Benzie County; 1645 roadside ditch by swamp hardwoods, Martin Road; 1741 margin of Deadstream (Gall).

44. Carex retrorsa Schw.
   1208 roadside ditch, South Shore Platte Lake Road; 1597, 1598, 1599 roadside ditch, South Shore Platte Lake Road.

45. Carex rostrata Stokes.
   327, 329 semi-open marsh, just south of junction of Dymond and Skinner Roads; 2542 semi-shaded marsh, Betsie River Bridge, River Road, nearest Elberta.

46. Carex scabrata Schw.
   234 moist meadow near Hooker Bridge; 350 wooded swampy area, 1/2 mile east of junction of Indian Hill and Saffron Roads; 445 wooded swampy area 1/2 mile east of junction of Indian Hill and Saffron Roads; 1264 cedar swamp, just south of junction of Dymond and Skinner Roads; 1310 wooded swampy area 1/2 mile east of junction of Indian Hill and Saffron Roads; 1386 wooded creek flat, Swamp Road just south of Mick Road; 1639 shaded seep, along North Branch, just south of junction of Dymond and Skinner Roads.

47. Carex schweinitzii Schw.
   932 edge, cedar swamp, south of Cedar Run.

48. Carex sterilis Willd.
   2008 Belt Lake Bog.
49. Carex stipata Willd.

668 Nessen City Road just south of Little Betsie River, under alder; 933 moist woods road, under hardwoods, south of Cedar Run; 1183 cedar swamp, Platte River west of U.S. 31; 1589 pond edge, Thompsonville-Nessen City Road; 2392 moist meadow near waterfront, Frankfort.

50. Carex stricta Lam.

841 edge of abandoned railroad roadbed near cedar swamp, south of Cedar Run; 1431 Deadstream bog along Indian Hill Road near Beechrafts; 2042 Cedar Run area near old MNE railroad - extensive marsh; 2399 open marsh above Grass Lake Dam; 2427 marsh, outlet of Loon Lake.

51. Carex tribuloides Wahl.

1984 south side Milnichol Road, edge of old Tamarack swamp, 1/4 mile east of Route 669.

52. Carex trisperma Dewey.

1184 cedar swamp, Platte River, west of U.S. 31; 2147 forest bog north of Black Lake.

53. Carex tuckermanii Boott.

2304 moist open meadow, Route 22 at Sutter's Corner.

54. Carex viridula Michaux.

1194 wet Jack Pine flats, Aral; 1756 beach, Crystal Lake (Gall); 1713 wet sandy shore, Lake Ann; 1804 moist sandy shore, Turtle Lake; 1894 mouth of Platte River (Gall); 2072 moist sandy point, west side Stevens Lake, associated with Xyris and Lycopodium inundatum.

55. Carex vulpinoidea Michaux.

1588 pond edge, Nesson City-Thompsonville Road; 1605 ditch, South Shore Platte Lake Road; 1695 marshy swale, Crystal Lake, Crystal and Lake Streets; 1897 cedar swamp along Platte River between U.S. 31 and Deadstream; 1967 swamp edge, River Road, first bridge west of Benzonia; 2052 marshy area, Nugent Road 1-1/2 mile south of Grace Road; 2117 River Road to Frankfort just west of Higgens Road; 2306 moist meadow, Route 22 at Sutter's Corner.
CYPERACEAE (other than CAREX).


Marshy shores, bogs, streams. Common.
1228 calcareous bog, Belt Lake; 1245 bog, Aral; 1254 calcareous bog, Belt Lake; 1363 Betsie River above Grass Lake Dam; 1482 Round Lake, sedge meadow; 1667 Lower Herring Lake; 1721 wet sandy shore, Lake Ann; 1786 wet sandy shore, Long Lake; 1809 wet shore, Turtle Lake; 1980 swale, Betsie River Road, north of St. John's Road; 2001 bog, Lost Lake; 2207 outlet, Grass Lake; 2845 marsh, Lime Lake.

2. *Cyperus esculentus* L. Yellow Nut Sedge.

Roadsides. Occasional.
1668 roadside, Deadstream Road, recently filled and worked road shoulder; 1885 roadside, Deadstream Road (Gall); 1942 roadside, Deadstream Road; 2689 roadside, River Road; 2733 moist sandy area by settling basin, Beulah.


Roadsides. Occasional.
1047 roadside, Platte River Point Road; 2070 roadside, Cinder Road; west of Bendon; 2234 dry open field, 1 mile east of Turtle Lake on Cinder Road.


Wet sandy shores. Frequent, may be locally abundant.
1502 springy ground below Homestead Dam (Gall); 1673 shore, Herring Lake; 1708 wet sandy shore, Lake Ann; 2033 wet shore, Lime Lake; 2138 wet sandy shore, Platte Lake; 2278 old rotting pier, Bass Lake; 2767 wet gravelly sand, Honor gravel pit, Deadstream Road.

5. *Cyperus schweinitzii* Torrey. Schweinitz's Cyperus.

Roadsides, ditches. Occasional.
1667 roadside, Indian Hill Road, just east of Deadstream Road; 2112 roadside ditch, Indian Hill Road near junction of Saffron Road; 2286 old field, junction of Indian Hill and Saffron Roads.


Margins of lakes, bogs, and streams. Common, often locally abundant.
1255 Leatherleaf bog, just north of Platte River Campground, Sleeping Bear Lakeshore.

2170 edge of Little Platte Lake, cedar swamp, soft mud.


Wet sandy shores, swales, depressions. Common, locally abundant.
916 depression, Jack Pine flats, Aral; 1220 depression, Jack Pine flats, Aral; 1413 moist swales, among Jack Pine, Aral; 1701 marshy swale, Crystal Lake; 1714 wet sandy shore, Lake Ann; 2153, 2154 wet sandy pond, Aral; 2219 south shore, Crystal Lake.


Lake shores, river margins, ditches, depressions. Frequent, locally abundant.
366 wet shore, Little Platte Lake; 976 margin, drainage ditch, Beulah; 983 ditch, South Shore Platte Lake Road; 1179 muddy shore, Platte River, west of U.S. 31; 1180 mudshore margin, Deadstream; 1428 mud flat, Upper Platte River above Deadstream; 1594 pond edge, Nessen City-Thompsonville Road; 2173 ditch, roadside along Thompsonville-Nessen City Road; 2174 soft mud, Deadstream; 2224 shore, Turtle Lake; 2282 wet sandy shore, Otter Lake.

10. **Eleocharis intermedia** Schultes. Spike Rush.

Sandy shores, bogs. Frequent, generally locally abundant.
1686 soft mud, outlet Upper Herring Lake; 2034 wet shore, Lime Lake; 2387 wet rock by bridge, Little Betsie River, Bently Road; 2661 mud flat, outlet Upper Herring Lake; 2665 mud flat, Homestead Dam; 2818 wet sandy edge, small pond, Point Betsie; 2834 mud patches in pond area near Pearl Lake; 2841 mud margins of pond by Lime Lake.


Lake margins. Occasional.
365 edge, Little Platte Lake near Sylvan Point; 2225 Turtle Lake.

Wet sandy lake margins. Occasional.
1718 wet sandy shore, Lake Ann; 2205 wet floating old log at Grass Lake Dam.


Wet margins, wet sandy lake shores, bogs. Fairly frequent.
1522 Bass Lake; 1656 bog, Otter Creek; 1709 wet sandy shore, Lake Ann; 2023 bog, Belt Lake; 2090 bog, Little Platte Lake.


Bogs. Common, often locally abundant.
1259 Leatherleaf bog, south of Platte River Campground, Sleeping Bear Lakeshore; 1296 Leatherleaf bog, Lost Lake; 1451 Leatherleaf bog, Lost Lake; 2047 cedar bog, south of Cedar Run; 2086 bog, Little Platte Lake.


Bogs, swamps. Frequent, may be locally abundant.
366 swamp, east of Honor; 674 swamp, east of Honor; 934 cedar swamp south of Cedar Run; 1225 Platte Lake, South Shore Drive; 1433 Deadstream bog, near junction of Indian Hill and Ryan Roads; 2430 Deadstream swamp near drive-in theater; 2760 bog by old railroad roadbed, Honor.


Bogs. Occasional.
1660 bog, Otter Creek swamp; 2013 calcareous bog, Belt Lake; 2083 bog, Little Platte Lake; 2186 open bog, Deadstream Bridge.


Wet shores, swales, bogs. Occasional, it may be locally abundant.
1521 wet shore, Bass Lake; 1706 marshy swale, Crystal Lake; 1997 spring area, Beulah Boat Shop, North Shore Crystal Lake Drive; 2009 wet calcareous mud, Belt Lake.
18. **Scirpus acutus** Bigelow. Hardstem Bulrush.

Ponds, stream margins, bogs. Abundant.
937 calcareous bog, Belt Lake; 949 pond just north of Platte River Campground, Sleeping Bear Lakeshore; 1362 margin of Betsie River above Grass Lake Dam; 1956 Betsie River above Grass Lake Dam; 2020 sedge-cranberry bog, 1 mile south of Cooper Road; 2021 calcarious bog, Belt Lake; 2031 Pearl Lake; 2032 south shore Lime Lake; 2087 Little Platte Lake; 2141 Platte Lake; 2833 small pond by Pearl Lake.


Lake shores. Frequent, locally abundant.
1111 Crystal Lake; 1699 Crystal Lake; 1723 Lake Ann; 2089 Little Platte Lake.


Lake margins, ditches, marshes. Common.
196 Benzie County; 968 roadside, Deadstream Road; 1266 cedar swamp, south of junction of Dymond and Skinner Roads; 1646 roadside ditch, Margin Road; 1696 marshy swale, Crystal Lake; 2050 sedge marsh, south of Cedar Run; 2685 Lower Betsie near Elberta.


Swamps, bogs, ditches, lake and pond margins. Common, often locally abundant.
724 swamp along Thompsonville-Nessen City Road; 1295 Leatherleaf bog, Lost Lake; 1454 pond edge, Gonder Road, near Grand Traverse County line; 1647 roadside ditch, Martin Road; 1990 sedge marsh, junction St. John's and Betsie River Roads.

22. **Scirpus hudsonianus** (Michaux.) Fern. Cottongrass-Bulrush.

Bogs. Occasional.
825 calcarious bog, Belt Lake; 938 calcarious bog, Belt Lake; 1870 Deadstream bog (Gall).

23. **Scirpus pendulus** Muhl. Bulrush.

1952 marshy area near Grass Lake Campground.

Lake margins. Occasional.
1322 sedge-cranberry bog, 1 mile south of Cooper Road;
2206 outlet, Grass Lake.


Lake margins, slow stream edges. Common, locally abundant.
1181 margin, Deadstream; 1722 Lake Ann; 1951 marsh edge,
Grass Lake campground; 2141 east end of Platte Lake.

Moist rich hardwoods, swamp hardwoods. Common.
310 rich hardwoods, Aral Road; 322 rich hardwoods, west end Worden Road; 366 moist hardwoods, North Branch Junction Road; 536 rich hardwoods, west end Worden Road; 1404 swamp forest, Saffron Road. This specimen appears to fit the description of *Arisaema triphyllum* (L.) Schott f. *pusillum* (Peck) Fern.


Semi-open bogs, wooded bog. Very local, three stations for county.
1292 Lost Lake, locally abundant; 1815 Black Lake (Gall); 2145 Black Lake, locally abundant; 2479 Herandeen Lake, locally abundant.


578 Deadstream swamp, locally frequent.

Ponds and quiet water of streams. Common, locally abundant. 673 River Road Bridge swamp at Adams Road; 831 Platte River above Platte Lake; 947 Cedar Run; 948 River Road Bridge swamp at Adams Road.


Shallow water, Lake edge. Only two stations. 1505 Betsie Lake (Gall); 1525 Betsie Lake, abundant; 2432 Betsie River above Grass Lake Dam.


  Moist sandy shore. Only one station.
  2074 Steven's Lake, locally abundant. Several hundred plants, 1974; abundant at above station, 1981. Associated with *Lycopodium inundatum*.
COMMELINACEAE

1. *Commelina communis* L. Day-flower.

Dump area, Frankfort. Only one station. Several individual plants, not a colony.
497 Frankfort.


Roadsides, occasional. It appears to be becoming more frequent in recent years.
1585 Deadstream Road west of Honor, 15 plants; 1737 South end of Hammer Road (Gall); eight plants observed on Marshall Road about 2 miles west of U.S. 31; 2300 Roadside, Narrow-gauge road.

Wet sandy shores. Occasional, though often locally abundant. 1725 Lake Ann; 1831 Elberta (Gall); 2136 Platte Lake, abundant; 2137 Platte Lake. This specimen is H. dubia (Jacq.) MacM. f. terrestris (Farw.) Vict.


Lake shores. Local. 1527 Betsie Lake, occasional; 1680 Upper Herring Lake, locally abundant; 1774 Long Lake, locally abundant; 2653 Long Lake (Gall); 2697 Long Lake (Gall); Also noted at Turtle Lake.
1. **Juncus acuminatus** Michaux. Rush.

1256 moist swale just north of Platte River Campground, Sleeping Bear Lakeshore, Leatherleaf bog. Local.


1446 wet shore, Platte River Point; 1607 ditch, South Shore Platte Lake Road; 1764 shore, Crystal Lake (Gall); 1780 moist to wet sandy shore, Long Lake; 2041 shore, Lime Lake; 2046 cedar bog south of Cedar Run.


Lake shores, ditches. Common.
1388 shore, Crystal Lake; 1663 shore, Crystal Lake; 1780 shore, Long Lake; 1811 shore, Turtle Lake; 1812 shore, Turtle Lake; 2259, 2260 moist sandy roadside, Cooper Road; 2805 roadside ditch, U.S. 31 near Betsie River public access.


Lake shores, wet depressions in dunes. Locally abundant.
690 wet depression, dunes, Aral; 1193 wet depressions, dunes, Aral; 1467 shore, Crystal Lake; 1698 marshy swale, Crystal Lake; 1779 wet shore, Long Lake; 1936 wet shore, dune pond, Aral; 1939 wet shore of dune pond, Aral; 2022 Belt Lake bog; 2038 moist shore, sandy-shaded, Lime Lake; 2658 Belt Lake bog.


Wet marshy shores. Common.
1376 Gonder Road just north of St. John's Road, marsh edge; 1447 Platte River Point; 1675 marshy shore, Lower Herring Lake; 2780 wet sandy shore, Long Lake; 2836 margin of Pearl Lake.


2263 roadside, Cooper Road, locally abundant.

7. **Juncus canadensis** La Harpe. Rush.

1297 margin, Eliza Lake; 1455 pond edge, Gonder Road north of St. John's Road - this specimen is parasitized by a plant gall insect; 1810 wet shore, Turtle Lake, occasional.

Swales, ponds, ditches. Fairly common.
1593 pond edge, Nesson City-Thompsonville Road; 1606 ditch, South Shore Platte Lake Road; 1697 marshy swale, Crystal Lake; 2209 moist sandy shore, yacht basin, Frankfort.


Lake shores, swamps. Locally common to abundant.
1261 cedar swamp south of junction of Dymond and Skinner Roads; 1283 Pigeon Lake; 1953, 1954 marshy area, Grass Lake Campground.


Marshy shores. Frequent, locally common.
1445 Platte River Point; 1778 moist shore, Long Lake; 1966 Benzie County; 2006 Belt Lake bog; 2835 mud patches, small pond near Pearl Lake.


Roadsides, trails, old fields. Common.
1038 woodland trail, Weldon Township 1286 woodland road, near Pigeon Lake; 1302 woodland road to Eliza Lake; 1452 open roadside to Lost Lake; 1950 Grass Lake Campground; 2019 woodland road, 1/2 mile west of Cooper Road; 2163 hardwoods, logging road near Benzie Central High School.

12. **Luzula multiflora** (Retz.) Lej. Wood Rush.

1425 old field, near Frankfort. Locally abundant, only station.
1. **Allium rotundum** L.

   2863 Brownell Road, roadside east of Haze Road. Locally abundant. Station located by H. Gall.

2. **Allium tricoccum** Aiton. Wild Leek, Ramps.

   Rich hardwoods. Common, often locally abundant. 39 rich hardwoods, Aral Road; 510 rich hardwoods, Elberta; 569 rich hardwoods, Aral Road.

3. **Asparagus officinalis** L. Asparagus.

   Persisting old gardens, fields, roadsides. Fairly common. 190 roadside, Indian Hill Road; 1109 South Shore Drive, Crystal Lake.


   Cool woods, swamps. Common, though often local. 25 swamp hardwoods, Saffron Road; 339 cedar swamp, Martin Road.

5. **Convallaria majalis** L. Lily-of-the-Valley.

   Persisting and somewhat spreading, old home sites. Occasional. 278, 321 partially shaded slope, U.S. 31 near Weldon Road. Colony about 12 feet across.

6. **Erythronium americanum** Ker. Trout Lily, Dogtooth Violet, Yellow Adder's-Tongue.

   Hardwoods. Abundant. 541 Frankfort, rich hardwoods.

7. **Hemerocallis fulva** (L.) L. Orange Day-lily.

   Locally persistent and spreading around old home sites, roadsides. Occasional. 1240 Frankfort, along railroad; 1403 Aral Road, old home site; 278 double flowers, corner of Grace and Ellis Roads.

8. **Hemerocallis lilio-asphodelus** L. Yellow Day-lily.

   Persisting around old home sites. Occasional, not as common as the Orange Day-lily. 1403 Aral Road, old home site.
   Garden escape. Very local. 2523 Eden Hill Road (Gall).

    Garden escape. Occasional. 2309 Benzonia, corner of Walker and Lake Streets (Gall).

    Roadsides, relic beaches, partially shaded stable dunes. Common. 47 Crystal Lake relic beach; 2704 moist area, Indian Hill Road, colony with 1, 3, 4 flowers per plant.

    Swamps, swamp forests, upland forests. Abundant. 4 Platte Lake, cedar swamp.


    Local garden escape. 2638 Eden Hill Road (Gall).

    2889 spreading aggressively, vacant lot at west end of Elberta.

    Hardwoods, Common. 253 hardwoods, Aral; 320 rich hardwoods, U.S. 31 near Wordon Road; 979 Route 22 hardwoods, near junction of Joyfield Road.


Open to semi-forested-covered dunes, sandy dry lake shores. Common, locally abundant.
104 Dunes, Lake Michigan just north of Platte River Campground, Sleeping Bear Lakeshore; 579 open dunes, Platte River Point, Sleeping Bear Lakeshore; 1940 shore, Lake Michigan, Aral.


Bogs, cedar swamps. Local, often locally abundant.
763 cedar swamp south of Cedar Run.


Swamp hardwoods. Very Local.
768 swamp hardwoods just east of Thompsonville along Nessen City Road; 2318 Nessen City swamp (Gall); 2319 Dair's Woods (Gall).


Moist hardwoods, swamp hardwoods. Occasional, may be locally abundant.
125 rich hardwoods, near junction of Hooker and Gudemoos Roads; 659 swamp hardwoods just east of Thompsonville; 1394 hardwoods, Sutter Road near Crystal Downs.


1634 Deadstream swamp, sedge area, locally common. Only station. Located by H. Gall.

23. Trillium cernuum L. Nodding Trillium.

Cedar-hemlock swamps, especially swamp hardwoods. Occasional.
605 cedar swamp near Honor; 2323 River Road, boggy woods north of east Bridge (Gall).

24. Trillium erectum L. Stinking Benjamin.

Well-drained hardwood slope, 1st small road to the right off Carmien Road south of U.S. 31 - 2 plants observed, not collected, 1985.

Hardwoods, swamp hardwoods. Abundant.
127 rich hardwoods, Hooker Road near junction of Gudemoos Road; 302 rich hardwoods, Aral Road; 565 rich hardwoods, Aral; 587 rich hardwoods, Route 22 just south of Joyfield Road junction. This specimen is *T. grandiflorum* (Michaux) Salisb. f. *striatum* Louis-Marie. This variant is locally common in the county.

26. **Uvularia grandiflora** Sm. Bellwort.

272 rich hardwoods, U.S. 31 near junction of Wordon Road; 540 rich hardwoods, Crystalia; 550 rich hardwoods, Elberta.

27. **Yucca filamentosa** L. Yucca.

Old fields, established and to some extent spreading. Occasional.
1368 old field, Sutter Road; 2111 Indian Hill Road near junction of Saffron Road, old field.


Lake Michigan dunes, dune flats, relic beaches near Lake Michigan. Locally common.
260 Dunes, Aral.
1. *Narcissus poeticus* L. Poet's Narcissus.

Persisting, old home sites, spreading somewhat. Occasional. 1867 Aral, old home site (Gall); 2488 Route 22, roadside about 1 mile north of Manistee County line.


Spreading from old gardens and homesites. Occasional. 2888 vacant lot west end of Elberta. 2901 old field, Deadstream, 1/4 mile east of Route 22.
1. **Iris germanica** L. Flag, Garden Iris.

   Roadside, old homesites. Local.
   1582 Route 22 north of Frankfort, spreading; 1911 old homesite, Aral, spreading; 2407 spreading on slope near Historical Museum, Benzonia.

2. **Iris pseudacorus** L. Yellow Iris.

   1586 lake margin, Loon Lake, 2 plants. Noted also on Platte River near Platte River Campground, Sleeping Bear Lakeshore.

3. **Iris versicolor** L. Blue Iris.

   Pond areas among old stabilized dunes, both records.
   17 Pond area north of Platte River Campground, Sleeping Bear Lakeshore; 1882 pond north of Platte River Campground, Sleeping Bear Lakeshore.

4. **Iris virginica** L. Blue Flag.

   Ponds.
   1583 pond north of Platte River Campground, Sleeping Bear Lakeshore, common; 2313 mouth of Loon Lake.

5. **Sisyrinchium angustifolium** Miller. Blue-eyed Grass.

   Creekbanks, swamp edges, damp depressions. Occasional.
   1000 Aral, Otter Creek; 2180 cedar swamp edge, Deadstream Road; 2649 dampish depression, open field, Grace Road (Gall); 2870 Ballard Road, field, south of Grace Road (Gall).

6. **Sisyrinchium montanum** Greene. Blue-eyed Grass.

   Moist lake shores, moist meadows. Occasional.
   1170 moist meadow, Hooker Road near junction of Gudemoos Road; 1223 moist sandy beach, Crystal Lake.

591 rich hardwoods, west end of Joyfield Road. Also found, but not collected in the following areas; rich hardwoods, Ely and Fewins Roads; rich hardwoods near junction of Mick and Swamp Roads; rich hardwoods on Route 22 near west end of Joyfield Road; west end Grace Road (Tesaker); north of junction of Joyfield Road and Route 22 (Tesaker).


Deadstream bog. Only station.
1406 Deadstream bog (Gall).

3. Calopogon tuberosus (L.) BSP. Grass-pink.

1211 Deadstream bog. Reported also from Otter Creek bog, and noted at Little Platte Lake bog.


Crystal Downs bluff, collected by H. Gall, May 31, 1940, specimen in personal collection of H. Gall. Colony persisted at this site for about 10 years afterward (Gall). Specimen observed by authors. Last known station in the county. Considerable effort has been made to relocate this species in the county.


Hardwood, swamp hardwoods, pine forests, cedar swamps. Common; it may be locally abundant.
213 cedar swamp, Martin Road; 1862 Crystal Lake relic beach (Gall); 1863 'Woods back of Towles' (Gall).

6. Corallorhiza odontorhiza (Willd.) Nutt. Fall Coral-root.

Oak-pine forests, hardwoods, cedar swamps. Local. It may be locally common.
612 Oak-pine woods near junction of Saffron and Indian Hill Roads; 1457 Oak-pine woods on Cinder Road west of Bendon.

Pine forests, hardwoods, swamp hardwoods, cedar swamps. Fairly common.
331 hardwoods south of junction of Skinner and Dymond Roads; 573 Jack Pine, Aral dunes. Some years it is locally abundant in the Jack Pine flats among the dunes.


20 moist hardwoods, Saffron Road; 773 moist hardwoods, Saffron Road; 1393 hardwoods, Sutter Road near Crystal Downs; 2339 Point Betsie dunes, under cedar (Gall).


Oak-pine forests, hardwoods, swamp hardwoods, aspen stands, Common, often locally abundant.
27 moist hardwoods, Saffron Road.

The following is a count of flowering stems on a two mile transect (Peterson Road) just north of Platte River Campground, Sleeping Bear Lakeshore, in an oak-pine forest:

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<td>1984</td>
<td>2</td>
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Two mile transect to Bass Lake from Route 22, oak-pine forest:

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<td>1985</td>
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</tbody>
</table>
10. **Cypripedium arietinum** R. Br. Ram's Head Lady-slipper.


Open to semi-open swamps, swamp forests, cedar swamps. Locally common. 370 cedar swamp just east of Honor.


Cedar swamps, swamp and stream edges, ditches. Locally common. 35 roadside west end Hooker Road; 827 cedar swamp south of Cedar Run.


Rich hardwoods, hardwoods, swamp hardwoods, cedar swamps. Becoming common especially in hardwoods in the county. 481 rich hardwoods, west side of Crystal Lake; 1872 rich hardwoods, west side of Crystal Lake (Gall). First noted in Benzie County by H. Gall in 1954.


Generally associated with conifers, Hemlock, White Pine, cedar. Common, though often local. 362 Hemlock-hardwoods, Route 22 near Deadstream Road; 736 White Cedar-Balsam, Betsie Point, locally frequent; 2707 old Indian trail off Route 22.


876 swamp hardwoods, junction of Hooker and Indian Hill Roads. One other colony noted at Empire junction on Gude-moos Road. Only two stations.

Cedar swamps, under hemlocks. Local. Occasional in County. 626 Otter Creek cedar swamp. This specimen appears to be *G. repens* (L.) R. Br. v. ophioides Fern.; 1864 'Weldon Bog' (Gall); 1865 Lake Michigan bluff under hemlocks (Gall).

17. **Habenaria clavellata** (Michaux.) Sprengel. Small Green Wood Orchid.


18. **Habenaria dilatata** (Pursh.) Hooker. White Bog Orchid.

Bogs. Occasional. 524 Otter Creek bog in cedar swamp; 828 calcareous bog, Belt Lake.


31 morainal slope, hardwoods, just east of Platte River Campground, Sleeping Bear Lakeshore. Only station.


Cedar swamps, swamp hardwoods. Common. 19 cedar swamp, south of junction of Dymond and Skinner Roads; 465 cedar swamp, south of junction of Dymond and Skinner Roads; 817 cedar swamp, South Shore Road, Platte Lake.


Bogs, marshes. Occasional. 1212 Deadstream bog; 2127 South of Love Road, east of Dam Road, found by A. Tesaker, collected by H. Gall. Also found, not collected by A. Tesaker at east side of Nugent Road about 1/4 mile south of Grace Road.


Cedar swamps. Local, two stations. 1238 Otter Creek cedar swamp; 1841 cedar swamp, Route 22 south of Platte Lake Road (Gall).

Rich hardwoods, swamps and bogs. Occasional, it may be locally frequent.
509 Rich hardwoods, Route 22 near junction of Joyfield Road.

This species appears to be associated with old-growth hardwoods or hardwoods in which the understory has not been seriously disturbed.


Semi-shaded swamps, swamp hardwoods. Occasional to locally frequent from year to year, occasionally found to be locally abundant in moist meadows.
499 River Road swamp by Adams Road junction; 1873 Haze Road (Gall); 2717 moist flat by old MHE Railroad bed near Lake Ann; 515 moist meadow near Round Lake. This specimen is H. psycodes (L.) Spreng. f. albiflora (Begel.) R. Hoffm., the white-flowered form. It was associated with a large colony of normal Purple Fringed Orchids.


654 rich hardwoods, Elberta. Also noted in hardwoods at Joyfield Road, Route 22 near Manistee County line, Pearl Lake, Fowler Road.


Cedar swamps. Occasional.
75 cedar swamp, south of junction of Dymond and Skinner Roads; 1856 cedar swamp, Beulah (Gall). Noted also at North Branch cedar swamp, Deadstream swamp.

27. Listera convallarioides (Sw.) Torrey. Broadleaf Twayblade.

Cedar swamps, swamp hardwoods. Occasional.
78 cedar swamp, just south of junction of Dymond and Skinner Roads; 1816 cedar swamp, Weldon Road (Gall). Also noted at Wooddock Lake, Saffron Road wet hardwoods.


Cedar swamps. Only one station.
829 cedar swamp just north of Cedar Run. 5 plants.
White Adder's-mouth.

Cedar swamps, occasionally Tamarack-cedar swamps. Occasional.  
842 cedar swamp south of Cedar Run; 1233 cedar swamp north  
of Lake Ann; 1746 Tamarack-cedar swamp east of Deadstream  
(Gall); 2640 moist swale under Jack Pine, Aral, 184 plants  
in 10 foot square area.


Bogs, Tamarack swamps. Two stations.  
1820 Deadstream Tamarack swamp (Gall); 2085 bog, Little  
Platte Lake.


Bogs. Local in county, often locally abundant where found.  
823 open calcareous bog, Belt Lake. Noted also in Dead­
stream bog, Little Platte Lake bog.


Moist-wet sandy shores, moist meadows, ditches. Common,  
often locally abundant.  
1079 moist shore, north shore of Crystal Lake; 1097 moist  
meadow, east of Honor.


Jack Pine woods and Jack Pine flats near Lake Michigan,  
oak-pine forests. Occasional, it may be locally common.  
258 Jack Pine flats among dunes, Aral; 1691 oak-pine woods,  
Route 22 just north of South Shore Road to Platte Lake  
(Gall); 1749 Jack Pine grove in dunes, Aral, (Gall).


Wet shores of Lakes and ponds. Occasional.  
734 North shore of Crystal Lake; 884 bog, Belt Lake; 902  
wet swale, north shore, Crystal Lake. Noted also at Lime  
Lake.

35. *Triphora trianthophora* (Sw:) Rydb.  Three Birds Orchid.

Two stations found in County by H. Gall. 1821 cedar swamp,  
Narrow Gauge Road near Beulah August 30, 1954; a second  
station was at foot of bluff near Aral, no specimen col­
lected.