



*Some Notes  
on the Wild Plants  
of Benzie County, Michigan*

*by  
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## INTRODUCTION

Edith and I began to look seriously at the wild plants of Benzie County when we made our first collection in 1964. Over the last 40 years, we have made over 3000 collections of over 1000 species of plants in the county. In the mid 1980's, we summarized our work in four spiral bound volumes of *The Flora of Benzie County*. These were placed in the herbarium at the University of Michigan, Michigan State University, the library at Northwestern Michigan College, and the herbarium at Butler University, Indianapolis, Indiana.

These volumes enumerate all of our collection localities in the county. Most of the plant collections are at the Friesner Herbarium at Butler University. Several hundred of the rare and unusual plants are in the collection at the University of Michigan.

Many of the specimen were cited in the Michigan Floral Project and appear as distribution dots for Benzie County in Volumes II and III of *Michigan Flora* by Ed Voss.

Since our spiral volumes are not easily accessible, we thought a short summary of some of the most interesting plants would be useful for wild plant lovers in the county.

Comments or plants that you would like to share with us should be sent to Bill Overlease, 1645 Sycamore Court, Bloomington, Indiana, 47401.

## WILD ORCHIDS OF BENZIE COUNTY

*Aplectrum hyemale* Putty-root, Adam-and-Eve. Rich hardwoods, occasional

*Arethusa bulbosa* Arethusa One known locality, Deadstream Bog. We have not seen the plant for many years. It appears to have been extirpated by too many camera enthusiasts who knew about the site.

*Calopogon tuberosus* Grass-pink. Deadstream bog, Little Platte Lake bog. Not common

*Calypso bulbosa* Calypso. Last observed at Crystal Down's in bloom, May 31, 1940 by Harold Gall of Crystal Downs. The plant persisted for about ten years.

*Corallorhiza maculata* Spotted Coral-root. Hardwoods, swamp forests, pine forests, cedar swamps. Common.

*Corallorhiza odontorhiza* Fall Coral-root. Oak-pine forests, hardwoods, cedar swamps. Local. It may be locally common.

*Corallorhiza striata* Stripped Coral-root. Pine forests, hardwoods, swamp hardwoods, cedar swamps. Fairly common.

*Corallorhiza trifida* Early Coral-root. Moist hardwoods, hardwoods, cedar swamps. Occasional.

*Cypripedium acaule* Moccasin Flower, Pink Ladyslipper. Oak-pine forests, hardwoods, swamp hardwoods, aspen stands. Common.

*Cypripedium arietinum* Ram's Head Lady-slipper. Jackpine forests, jack pine, cedar forests. Occasional. Rarely it may be locally abundant under jack pine with over 1000 plants.

*Cypripedium calceolus* v. *pubescens*. Yellow Lady-slipper. Open to semi-openswamps, swamp forests, cedar swamps. Locally common.

*Cypripedium reginae* Showy Lady-slipper. Cedar swamps, swamp and stream edges, ditches. Locally common.

*Epipactis helleborine* Helleborine. Rich hardwoods, hardwoods, swamp hardwoods, cedar swamps. Becoming common, especially in hardwoods. First observed, in the county by Harold Gall in 1954.

*Goodyera oblongifolia* Rattlesnake-plantain. Generally associated with conifers, Hemlock, White Pine, White Cedar. Common, though often local.

*Goodyera pubescens* Downy Rattlesnake-plantain. Swamp hardwoods, pine-cedar swamp. Occasional.

*Goodyera repens* Rattlesnake-plantain. Cedar swamps, under hemlock. Occasional.

*Habenaria clavellata* Small Green Wood Orchid. Cedar bogs, bogs. Occasional.

*Habenaria dilatata* White Bog Orchid. Bogs. Occasional.

*Habenaria hookeri* Hooker's Orchid. Morainal slope, hardwoods, Otter Creek cedar swamp. Along Indian Trail, Sleeping Bear Dunes, Lakeshore. Rare.

*Habenaria hyperborea* Northern Bog Orchid. Cedar swamps, swamp hardwoods. Common.

*Habenaria lacera* Ragged Fringed Orchid. Bogs, marshes. Occasional.

*Habenaria obtusata* Blunt-leaf Orchid. Cedar swamps. Only two records for county. Rare.

*Habenaria orbiculata* Round-leaved Orchid. Rich hardwoods, swamps, bogs. Occasional. It may be locally frequent.

*Habenaria psycodes* Purple Fringed Orchid. Semi-shaded swamps, swamp hardwoods. Occasional to locally frequent from year to year. Found to be locally abundant in moist meadows on rare occasions. The white flowered form *Habenaria psycodes* f. *albiflora* was found on Long Road.

*Habenaria viridis* v. *bracteata* Bracted Orchid. Rich Hardwoods. Occasional.

*Liparis loeselii* Green Twayblade. Cedar Swamps. Occasional.

*Listera convallarioides* Broadleaf Twayblade. Cedar swamps, swamp hardwoods. Occasional.

*Listera cordata* Heartleaf Twayblade. Cedar swamp. Only one station.

*Malaxis monophylla* v. *brachypoda* White Adder's-mouth. Cedar swamps, tamarack-cedar swamps. Moist swale under Jack pine. Occasional.

*Malaxis unifolia* Green Adder's-mouth. Two stations. Deadstream tamarack bog. Little Platte Lake bog. Rare.

*Pogonia ophioglossoides* Rose Pogonia. Bogs. Often locally common when found. Local in county.

*Spiranthes cernua* Nodding Ladies'-tresses. Moist-wet sandy shores, moist meadows, ditches. Common. Often locally abundant.

*Spiranthes lacera* Slender Ladies'-tresses. Jack pine forests, oak-pine forest. Occasional. It may be locally common when found.

*Spiranthes romanzoffiana* Hooded Ladies's-tresses. Wet shores of lakes and ponds. Calcareous bog. Occasional.

*Triphora trianthophora* Three Birds Orchid. Two stations found in county by Harold Gall. Narrow Gauge Road near Beulah, August 30, 1954. A second station was found at foot of bluff near Aral.

### FERNS AND FERN ALLIES OF BENZIE COUNTY

CLUB-MOSS, BOG (*Lycopodium inudatum*) Bog, sandy moist shores. This species appears to be very local and rare.

CLUB-MOSS, FAN (*Lycopodium digitatum*) also known as *Lycopodium flabelliforme*. Old fields, young successional forests. Local.

CLUB-MOSS, GROUND CEDAR (*Lycopodium tristachyum*) Hardwoods, Frequent.

CLUB-MOSS, PRINCESS-PINE (*Lycopodium obscurum*) Hardwoods, moist hardwoods. Common.

CLUB-MOSS RUNNING-PINE (*Lycopodium clavatum*) Moist to dry hardwoods. Common, though generally local.

CLUB-MOSS, SHINING (*Lycopodium lucidulum*) Moist rich hardwoods, hardwood. Common.

CLUB-MOSS, STIFF (*Lucopodium annotinum*) Cool, moist forests. Common to locally abundant.

HORSETAIL, COMMON, COMMON SCOURING RUSH (*Equisetum arvense*) Railroad roadbed, roadsides, disturbed ground. Locally abundant.

HORSETAIL, DWARF, DWARF SCOURING RUSH (*Equisetum scirpoides*) Cedar swamps, hardwoods. Occasional.

HORSETAIL, HYBRID SCOURING RUSH (*Equisetum X nelsonii*) Stable dunes, pond edges. Very local.

HORSETAIL, MEADOW (*Equisetum pratense*) Reported for Benzie County by Billington in his *Ferns of Michigan*, 1952.

HORSETAIL, SMOOTH SCOURING RUSH (*Equisetum laevigatum*) Dunes, moist dune depressions. Locally abundant.

HORSETAIL, SWAMP (*Equisetum fluviatile*) Marshy stream banks. Local.

HORSETAIL, WOOD (*Equisetum sylvaticum*) Rich, moist hardwoods, cedar swamps. Occasional though often locally abundant.

HORSETAIL, VARIEGATED SCOURING RUSH (*Equisetum variegatum*) Dunes, ditches. Local.

SPIKE-MOSS, ROCK (*Selaginella rupestris*) Open dry fields. Very local though it may be locally abundant.

FERN, ADDER'S-TONGUE (*Ophioglossum pusillum*) Willow-sedge meadow, Bendon. Rare.

BLADDER FERN, BULBET (*Cystopteris bulbifera*) Cedars swamps. Common. Locally abundant.

BLADDER FERN, FRAGILE (*Cystopteris fragilis*) Hardwoods. Occasional.

BRACKEN FERN (*Pteridium aquilinum*) Oak-pine forests, logged and burned over hardwoods, swamp hardwoods, old fields, roadsides. Abundant.

CHAIN FERN (*Woodwardia virginica*) Bog. Very local with Black spruce. Route 671 between Nessen City and Thompsonville.

CHRISTMAS FERN (*Polystichum acrostichoides*) Hardwood slopes. Very local.

GLADE FERN, LADY-FERN (*Athyrium felix-femina*) Rich hardwoods, moist hardwoods, swamp hardwoods, cedar swamps. Common.

GLADE FERN, NARROW-LEAVED SPLEENWORT (*Athyrium pycnocarpon*) Moist rich hardwoods. Occasional.

GLADE FERN, SILVERY SPLEENWORT (*Athyrium thelypteroides*) Moist rich hardwoods, cedar swamps, moist to swamp hardwoods. Frequent.

GRAPE FERN, BLUNT-LOBED (*Botrychium oneidense*) Rich hardwoods. Rare.

GRAPE FERN, DAISY-LEAF (*Botrychium matricariifolium*) Swamp hardwoods, rich hardwoods, old fields. Fairly frequent. Locally common.

GRAPE FERN, DISSECTED (*Botrychium dissectum*) Swamp hardwoods, roadside near junction of Pioneer and Goose roads. Rare.

GRAPE FERN, DUNEWORT (*Botrychium campestre ssp. michiganense*) Reported by W. Wagner on a perched dune near Lake Michigan.

GRAPE FERN, LEATHER (*Botrychium multifidum*) Hardwoods, moist shrub area. Occasional.

GRAPE FERN, LEAST MOONWORT (*Botrychium simplex*) Otter Creek bog. One plant.

GRAPE FERN, RATTLESNAKE FERN (*Botrychium virginianum*) Hardwoods, swamp hardwoods. Common.

GRAPE FERN, TERNATE (*Botrychium rugulosum*) One collection near Shorter Lake. Reported by W. Wagner.

MAIDENHAIR FERN (*Adiantum pedatum*) Rich hardwoods. Common.

MARSH FERNS, BROAD BEECH FERN (*Thelypteris hexagonoptera*) Rich hardwoods near spring. Only locality.

MARSH FERN (*Thelypteris palustris*) Open to semi-open swamps and marshes. Abundant.

MARSH FERN, NARROW BEECH FERN (*Thelypteris phegopteris*) Moist hardwoods. Common.

MARSH FERN, NEW YORK FERN (*Thelypteris noveboracensis*) Swamp hardwoods. One locality.

OAK FERN (*Gymnocarpium dryopteris*) Swamp hardwoods, cedar swamps, moist rich hardwoods. Common. Often locally abundant.

OSTRICH FERN (*Matteuccia struthiopteris*) Moist rich hardwoods, edges of swamp hardwoods. Often locally abundant.

POLYPODY FERN (*Polypodium virginianum*) Steep roadside banks. Local. Not a common plant in the county.

ROYAL FERNS, CINNAMON FERN (*Osmunda cinnamomea*) Swamp hardwoods, open to semi-open swamps. Common.

ROYAL FERNS, INTERRUPTED FERN (*Osmunda claytoniana*) Moist hardwoods, moist area near Betsie River. Local.

ROYAL FERN (*Osmunda regalis*) Wooded to semi-open swamps. Common.

SENSITIVE FERN (*Onoclea sensibilis*) Open swamps and marshes, ditches. Common.

SPLEENWORT, EBONY (*Asplenium platyneuron*) Semi-open to shaded hardwoods. Very local. It may be locally common when found.

WOOD FERNS, CRESTED SHIELD FERN (*Dryopteris cristata*) Swamp hardwoods, cedar swamps, moist hardwoods. Fairly common.

WOOD FERNS, GOLDIE'S FERN (*Dryopteris goldiana*) Rare. Near bluff between Long and Rush Lakes.

WOOD FERNS, INTERMEDIATE SHIELD FERN (*Dryopteris intermedia*) Rich hardwoods, cedar swamps. Common.

WOOD FERNS; MARGINAL-SHIELD FERN (*Dryopteris marginalis*) Rich hardwoods, moist hardwoods, cedar swamps. Common.

WOOD FERNS, SPINULOSE SHIELD FERN (*Dryopteris carthusiana*) Rich hardwoods. Occasional.

WOOD FERNS, TRIPLOID SHIELD FERN (*Dryopteris X triploides*) Rich hardwoods. Occasional.

### SHRUBS OF BENZIE COUNTY, MICHIGAN

ALDER SPECKLED (*Alnus rugosa*) Common.

AUTUMN OLIVE (*Elaeagnus umbellata*) Very local, so far.

BEARBERRY (*Arctostaphylos uva-ursi*) Common, often locally abundant.

BARBERRY, JAPANESE (*Berberis thunbergii*) A occasional escape.

BIRCH, DWARF (*Betula pumila*) Occasional, often locally abundant.

BITTERSWEET, AMERICAN (*Celastrus scandens*) Occasional.

BITTERSWEET, ASIATIC (*Celastrus orbiculatus*) Very local in county, so far.

BLUEBERRY, LOW SWEET (*Vaccinium angustifolium*) Oak-pine forests, bogs, Abundant.

BLUEBERRY, VELVETLEAF (*Vaccinium myrtilloides*) Rich hardwoods. Common.

BOG ROSEMARY (*Andromeda glaucophylla*) Sphagnum bogs. Local

BUCKTHORN, ALDER-LEAVED (*Rhamnus alnifolia*) Cedar swamps, bogs. Local.

BUCKTHORN, GLOSSY (*Rhamnus frangula*) Very local so far.

BUFFALO BERRY (*Shepherdia canadensis*) Open dunes, margins of streams. Common.

BUNCHBERRY (*Cornus canadensis*) Moist hardwoods, swamp hardwoods, cedar swamps. Locally common.



BURNING BUSH (*Euonymus europaea*) the european spindle tree. A very local garden escape.

BUSH HONEYSUCKLE (*Diervilla lonicera*) Oak-pine forests, swamps. Common.

BUTTONBUSH (*Cephalanthus occidentalis*) Margins of lakes, swamps. Locally common.

CACTUS, PRICKLEY PEAR (*Opuntia humifusa*) Locally spreading from planting at an old home site, Pioneer Road.

CHERRY, CHOKE (*Prunus virginiana*) Lake Michigan sand dunes, oak-pine forests, roadsides, edges of hardwoods including swamp hardwoods. Common.

CHERRY, SAND (*Prunus pumila*) Lake Michigan sand dunes, lake shores, sandy roadsides. locally common.

CHOKEBERRY (*Aronia prunifolia*) Margins of lakes, streams, swamps. Common.

CRANBERRY, LARGE (*Vaccinium macrocarpon*) Bogs. Very local, Cooper Road.

CRANBERRY, SMALL (*Vaccinium oxycoccus*) Bogs. Locally abundant.

DOGWOOD, ALTERNATE-LEAVED (*Cornus alternifolia*) Rich hardwoods. Occasional.

DOGWOOD, PALE (*Cornus amomum*) Swamps, lake shores. Local.

DOGWOOD, GRAY (*Cornus foemina*) Margins of streams, swales, marshy areas. Locally common.

DOGWOOD, RED OSIER (*Cornus stolonifera*) Open swamps, stream margins, open dunes. Common.

DOGWOOD, ROUND-LEAVED (*Cornus rugosa*) Rich, forested dune slopes, margins of streams. Occasional.

ELDERBERRY, COMMON (*Sambucus canadensis*) Roadsides, edges of streams, Common.

ELDERBERRY, RED-BERRIED (*Sambucus pubens*) Rich hardwoods. Occasional.

FALSE HEATHER, GOLDEN HEATHER (*Hudsonia tomentosa*) Open dunes, dry lake shores, open oak-pine forest areas. Common.

FALSE SPIRAEA (*Sorbaria sorbifolia*) Garden escape. Locally common.

FLOWERING ALMOND (*Prunus glandulosa*) A local garden escape.

FORSYTHIA (*Forsythia viridissima*) Locally spreading from planting, old home site near Elberta.

GLOBE-FLOWER (*Kerria japonica*) Locally spreading from old home site, Elberta.

GRAPE, FOX (*Vitis labrusca*) Very local, roadsides.

GRAPE, FROST (*Vitis riparia*) Sand dunes, roadsides, open area. Common.

GRAPE, SUMMER (*Vitis aestivale*) Very local. Lower Herring Lake.

GREENBRIER, BRISTLY (*Smilax tamnoides*) Swamp hardwoods, very local.

HAZELNUT, BEAKED (*Corylus cornuta*) Forest edges. Occasional.

HAWTHORN (*Crataegus pedicellata*) Occasional. Roadsides.

HAWTHORN, DOTTED (*Crataegus punctata*) Roadsides. Occasional.

HAWTHORN, RED (*Crataegus chrysoarpa*) Roadsides. The most frequent of the hawthorns.

HONEYSUCKLE, HAIRY (*Lonicera hirsuta*) Oak-pine forests-Occasional.

HYBRID HONEYSUCKLE (*Lonicera X bella*) Roadsides, moist open areas. Locally common.

HONEYSUCKLE, FLY (*Lonicera canadensis*) Hardwoods, cedar swamps, moist hardwoods. Common.

HONEYSUCKLE, GLAUCOUS (*Lonicera dioica*) Edges, hardwoods, oak-pine forests, roadsides. Common.

HONEYSUCKLE, MORROW (*Lonicera morrowii*) Locally spreading from ornamental plantings. Locally common.

HONEYSUCKLE, SWAMP FLY (*Lonicera oblongifolia*) Rare. Deadstream swamp.

HUCKLEBERRY (*Gaylussacia baccata*) Oak-pine forests, old forested dunes. Common. Often locally abundant.

JUNIPER, COMMON (*Juniperus communis*) Open dunes to semi-open oakpine woods. Common.

JUNIPER, CREEPING (*Juniperus horizontalis*) Open dunes. Locally abundant in open calcareous bogs. Common.

LABRADOR TEA (*Ledum groenlandicum*) Bogs, cedar swamps. Occasional. Usually locally common when found.

LEATHER-LEAF (*Chamaedaphne calyculata*) Bogs. Common. Often locally abundant.

LEATHERWOOD (*Dirca palustris*) Rich hardwoods. Occasional.

LILAC (*Syringa vulgaris*) Extensively planted and persisting and spreading around old home sites.

MEADOW-SWEET (*Spiraea alba*) Margins of streams, ponds, swamps. Common, often locally abundant.

MOCK ORANGE (*Philadelphus zeyheri*) Garden escape, roadside, U.S.31 about 1/10 mile toward Traverse City from Carmean Road.

MOUNTAIN HOLLY (*Nemopanthus mucronata*) Bogs, swamps, lake edges. Local.

NEW JERSEY TEA (*Ceanothus americanus*) Roadsides, open oak-pine forests. Very local.

NINEBARK (*Physocarpus opulifolius*) Local. Margin of Betsie River.

PERIWINKLE (*Vinca minor*) Persists and spreads from old home sites and cemeteries. Occasional.

PLUM, WILD (*Prunus americana*) Found spreading from wildlife plantings.

POISON IVY (*Toxicodendron radicans*) Sand dunes, hardwood swamps. Abundant on dunes. Occasional, though locally abundant in hardwood swamps.

POISON SUMAC (*Toxicodendron vernix*) Along Deadstream and in Deadstream bog and swamp. Local.

PRICKLY ASH (*Zanthoxylum americanum*) Swamp hardwoods along Betsie River. Very local.

#### RASPBERRIES, BLACKBERRIES, DEWBERRIES

BLACK RASPBERRY (*Rubus occidentalis*) Forest edges, roadsides. Occasional.

COMMON BLACKBERRY (*Rubus allegheniensis*) Forest edges, old fields, Common.

DWARF RASPBERRY (*Rubus pubescens*) Swamp hardwoods, moist woods. Common.

NORTHERN DEWBERRY (*Rubus flagellaris*) Old fields, forest edges. Occasional.

RED RASPBERRY (*Rubus strigosus*) Roadsides, forest edges. Occasional.

SWAMP DEWBERRY (*Rubus hispidus*) Very local. Marshy lake edge.

THIMBLEBERRY (*Rubus parviflorus*) Rich hardwoods near Lake Michigan. Local.

ROSE ACACIA BRISTLY LOCUST (*Robinia hispida*) Old home sites, persisting and spreading. Occasional.

ROSE, DOG (*Rosa canina*) Very local. Roadside near Elberta.

ROSE, FRENCH (*Rosa gallica*) Local garden escape. Benzonia, roadsides.

ROSE, MULTIFLORA (*Rosa multiflora*) Roadsides. Spreading from plantings. Occasional.

ROSE, SCOTCH (*Rosa spinosissima*) Garden escape. Roadsides. Local.

ROSE, SMOOTH (*Rosa blanda*) Lake Michigan sand dunes. Common.

ROSE, SWAMP (*Rosa palustris*) Margins of streams, swamps, marsh edges. Common.

ROSE, SWEETBRIER, EGLANTINE (*Rosa eglanteria*) Garden escape, Roadsides. Local.

SCOTCH BROOM (*Cytisus scoparius*) Locally spreading from planting near Dair's Mill.

SHAD-BUSH, SERVICEBERRY (*Amelanchier arborea*). Occasional.

SHAD-BUSH (*Amelanchier interior*) Occasional. Often near lake shores.

SHAD-BUSH (*Amelanchier laevis*) Oak-pine forests. Lake shores. Open dunes, swamp hardwoods, moist hardwoods. Common.

SHAD-BUSH (*Amelanchier sanguinea*) Lake shores, swamps, roadsides. Occasional.

SHAD-BUSH (*Amelanchier spicata*) Oak-pine forests, lake shores, roadsides. Occasional.

SWAMP LAUREL (*Kalmia polifolia*) Sphagnum bogs. Occasional.

SWEET FERN (*Comptonia peregrina*) Semi-open oak pine forest, dry roadsides. Occasional. It may be locally abundant when found.

SWEET GALE (*Myrica gale*) Open swamps, stream and lake margins. Locally abundant.

SHRUBBY CINQUEFOIL (*Potentilla fruticosa*) Otter Creek bog. Rare.

SHRUBBY ST. JOHN'S-WORT (*Hypericum kalmianum*) Moist sandy shores of ponds, streams, lakes, moist swales. Frequent.

SNOWBERRY (*Symphoricarpos albus*) Roadsides, open dunes, forest edges. Common.

SPICEBUSH (*Lindera benzoin*) Swamp hardwoods, occasionally in cedar swamps. Local.

SUMAC HYBRID (*Rhus X pulvinata*) Streamside. Rare. Hooker Bridge.

SUMAC, STAGHORN (*Rhus typhina*) Old fields. Abundant

SUMAC, WINGED (*Rhus copallina*) Open fields. Local.

TRAILING ARBUTUS (*Epigaea repens*) Oak-pine forests, open to semi-open swamps and swamp edges. Common.

TWIN-FLOWER (*Linnaea borealis*) Cedar swamps, low moist shaded hollows and flats among sand dunes. Locally abundant.

VIBURNUM, ARROWWOOD (*Viburnum dentatum*) Locally spreading from planted specimens.

VIBURNUM, HIGH-BUSH CRANBERRY (*Viburnum opulus*) Margins of streams, swamp hardwoods. Fairly common.

VIBURNUM, MAPLE-LEAVED (*Viburnum acerifolium*) Hardwoods. Occasional.

VIBURNUM, SHEEPBERRY (*Viburnum lentago*) Swamp hardwoods, margins of streams, bogs. Occasional.

VIBURNUM, SNOWBALL BUSH (*Viburnum opulus var. roseum*) Local garden escape, Beulah.

WILD RAISIN, WITHE-ROD (*Viburnum cassinoides*) Swamp hardwoods, margins of lakes, bogs. Occasional. Also known as wild raisin.

VIRGINIA CREEPER (*Parthenocissus inserta*) Very local. Betsie River, Turtle Lake, Beulah.

VIRGINIA CREEPER (*Parthenocissus quinquefolia*) Swamp hardwoods, open sand dunes, rich moist hardwoods, frequent often locally abundant.

WILLOW, Autumn (*Salix serissima*) Edges of swamps and bogs. Occasional.

WILLOW, BASKET (*Salix purpurea*) Rare near Crystal Lake, gravelly shore.

WILLOW, BEBB (*Salix bebbiana*) Margins of lakes, swamps. Common.

WILLOW, BLUE-LEAF (*Salix myricoides*) Lake Michigan dunes, Aral. Locally common.

WILLOW, BOG (*Salix pedicellaris*) Bogs. Occasional.

WILLOW, DUNE (*Salix cordata*) Lake Michigan sand dunes. Fairly common.

WILLOW, HEART-LEAVED (*Salix rigida*) Roadside, Cinder Road. Rare.

WILLOW, HOARY (*Salix candida*) Bogs, semi-open cedar swamps. Fairly frequent. Often locally abundant.

WILLOW, MEADOW (*Salix petiolaris*) Pond edge, Lime Lake. Rare.

WILLOW, PUSSY (*Salix discolor*) Margins of lakes, swamps, bogs. Common.

WILLOW, SANDBAR (*Salix exigua*) Lake Michigan sand dunes, lake shores. Locally common.

WILLOW, SHINING (*Salix lucida*) Margins of streams, moist roadsides. Fairly frequent.

WILLOW, UPLAND (*Salix humilis*) Oak-pine forest. Very local.

WINTERBERRY (*Ilex verticillata*) Swamps, swamp edges. Common.

WINTERCREEPER (*Euonymus fortunei*) Garden escape, gravel pit, Honor.

WINTERGREEN (*Gaultheria procumbens*) Oak-pine forests, swamp edges, swamp hardwoods. Common.

WITCH HAZEL (*Hamamelis virginiana*) Swamp hardwoods, rich hardwoods. Common.

YEW (*Taxus canadensis*) Rich hardwoods. Common. Often locally abundant around old sugar-bush camps when activity has reduced the deer brouse in the area in winter and early spring.

### TREES OF BENZIE COUNTY, MICHIGAN

AILANTHUS, TREE-OF-HEAVEN (*Ailanthus altissima*) A local escape in the county.

APPLE (*Malus pumila*) A common escape, also very persistent in old orchards and old abandoned home sites.

ASH, BLACK (*Fraxinus nigra*) Common in swamp hardwood forests.

ASH, GREEN (*Fraxinus pennsylvanica* var. *subinteqerrima*) Frequent along portions of Betsie River, though not as common as Red Ash.

ASH, RED (*Fraxinus pennsylvanica* var. *pennsylvanica*) Locally frequent along portions of Lower Betsie River.

ASH, WHITE (*Fraxinus americana*) A common and important species of the hardwood forest in the county.

ASPEN, LARGE TOOTHED (*Populus grandidentata*) Common throughout the county. Locally abundant on severely cut-over hardwoods.

ASPEN, QUAKING (*Populus tremuloides*) Common. Locally abundant on severely cut-over hardwoods, especially swamp hardwoods.

BALSAM FIR (*Abies balsamea*) Swamp hardwoods, cedar swamps, exposed bluffs along Lake Michigan with white cedar. Common, locally abundant.

BASSWOOD (*Tilia americana*) Common in hardwood forests. Occasional in swamp hardwoods.

BEECH, AMERICAN (*Fagus grandifolia*) An abundant species of the hardwood forests.

BIRCH, PAPER (*Betula papyrifera*) Common, though somewhat local in distribution.

BIRCH, YELLOW (*Betula allegheniensis*) Common. It appears to have been much more common in the original forests of the county. Following logging its presence became very spotty.

BLACK WALNUT (*Juglans nigra*) Occasionally seeding in and spreading from planted trees.

BUTTERNUT (*Juglans cinerea*) It rarely seeds in from planted trees.

CATALPA, HARDY (*Catalpa speciosa*) Rarely seeding in from planted trees.

CEDAR, WHITE (*Thuja occidentalis*) Swamps, locally abundant. Common in county.

CHERRY, BLACK (*Prunus serotina*) Common in hardwood forests.

CHERRY, PIN, FIRE CHERRY (*Prunus pensylvanica*) Common, old fields, roadsides, old dunes, forest edges and openings.

CHESTNUT, AMERICAN (*Castanea dentata*) Locally planted and occasionally seeding in and producing seedling and sapling trees.

ELM, AMERICAN (*Ulmus americana*) Formerly abundant on moist hardwood sites and in swamp hardwood forests. It was the largest of the hardwoods in the County. One was measured north of Honor by the old loggers that was nine feet nine inches in diameter. They called it the "king of the woods". Many elms were observed dying in 1967. By 1969 nearly 80% were dead or dying. Sapling and pole size trees are still common.

ROCK ELM (*Ulmus thomasi*) Generally associated with Slippery Elm. Locally common. This appears to be the most resistant native elm to the elm diseases.

SLIPPERY ELM (*Ulmus rubra*) Hardwood forests. Common.

HEMLOCK, EASTERN (*Tsuga canadensis*) Locally common in hardwood forests. It was formerly much more abundant than today as it was not able to reproduce well following logging in the county.

HICKORY, SHAGBARK (*Carya ovata*) Occasionally planted in the county and may seed in and spread locally.

HORSE-CHESTNUT (*Aesculus hippocastanum*) Planted in county. Rarely reproducing naturally. One seedling noted in Frankfort.

IRONWOOD, HOPHORNBEAM (*Ostrya virginiana*) Common to locally abundant on hardwood sites.

IRONWOOD, BLUE-BEECH (*Carpinus caroliniana*) Local in swamp forests, not common.

LARCH, EASTERN, TAMARACK (*Larix laricina*) Common, locally abundant, wet boggy areas. It does not appear to be as common as formerly reported due to sawfly infestations.

LOCUST, BLACK (*Robinia pseudocacia*) Planted locally and spreading. Fairly common.

LOCUST, HONEY (*Gleditsia triacanthos*) Locally planted and spreading near planted trees.

MAPLE, BOX-ELDER (*Acer negundo*) Around buildings, roadsides, streamsides, lake margins. Occasional. It appears to be becoming more frequent.

MAPLE, MOUNTAIN (*Acer spicatum*) Moist hardwoods, swamp hardwoods. Common.

MAPLE, NORWAY (*Acer platanoides*) The seedlings of the ornamental tree are locally established in urban areas.

MAPLE, RED (*Acer rubrum*) Swamp hardwoods, oak-pine forests. Abundant.

MAPLE, SILVER (*Acer saccharinum*) Local populations appear to be intermediate between Red and Silver Maple.

MAPLE, STRIPED (*Acer pensylvanicum*) Moist hardwoods, swamp hardwoods. Not common.

MAPLE, SUGAR (*Acer saccharum*) The major species of the rich hardwood forests. Abundant. It became the dominant species following logging due to its ability to sprout from stumps.



MOUNTAIN ASH, EUROPEAN (*Sorbus aucuparia*) Occasionally seeding in from planted trees.

MOUNTAIN ASH (*Sorbus decora*) Margins of streams, Lake Michigan bluffs. Occasional.

MULBERRY, WHITE (*Morus alba*) Occasional, roadsides.

OAK, BLACK (*Quercus velutina*) Local population on dunes north of Platte River campground, Sleeping Bear Lakeshore.

OAK, BUR (*Quercus macrocarpa*) Occasionally planted in the county and seeds in from planting locally.

OAK, RED (*Quercus rubra*) Northern hardwood forests and oak-pine forests. Common. The variant, often referred to as Northern Red Oak, is common on poor sandy sites.

OAK, SCARLET (*Quercus coccinea*) We have not found this species in the county. It is found east of Benzie County. The specimen referred to in the Michigan Flora was part of a hybrid population between northern red oak and black oak found on the dunes with the black oak population noted above.

OAK, WHITE (*Quercus alba*) Oak-pine forests, Common.

PEAR (*Pyrus communis*) Persisting and spreading somewhat around old home sites.

PINE, JACK (*Pinus banksiana*) Oak-pine forest, stable dunes and deflation flats near Lake Michigan. Common to locally abundant.

PINE, RED (*Pinus resinosa*) Old dune soils, relic beaches and bluffs. Common, often locally abundant.

PINE, SCOTS, SCOTCH (*Pinus sylvestris*) Seedlings and saplings are local established near planted trees and plantations. Occasional.

PINE, WHITE (*Pinus strobus*) Oak-pine forests, swamps, stabilized old dunes and relic beaches. Common. "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 had four 16's in it (64 feet). The log was lacking one inch of being four feet in diameter at the ends of the top log. The book-keeper put it in the paper." Conversation with Bob Bailey, one of Benzie County's surviving old loggers. August 24, 1965.

POPLAR, BALSAM (*Populus balsamifera*) Swamp edges, moist fields. Common.

POPLAR, COTTONWOOD (*Populus deltoides*) Fore dunes, Aral. Old home sites, Local.

POPLAR, LOMBARDY (*Populus nigra*) Persisting and spreading by roots from planted trees.

POPLAR, WHITE (*Populus alba*) Spreading around old home sites and from planted trees.

SASSAFRAS (*Sassafras albidum*) Rare in county along roadsides.

SPRUCE, BLACK (*Picea mariana*) Sphagnum bogs, swamp forests. Local, it may be locally common.

WILLOW, CRACK (*Salix fragilis*) Local. Occasional. Our large willow trees appear to be part of a *Salix alba-Salix fragilis* complex according to Ed Voss of the University of Michigan herbarium.