**Ottawa Non-native Invasive Plant Priority List 2018**

| Priority | Common name | Scientific name | Contract Reporting Requirements[#] |
|---|---|---|---|
| High | Garlic mustard | *Alliaria petiolata* | A |
| High | Japanese barberry | *Berberis thunbergii* | A |
| High | Bell's honeysuckle | *Lonicera × bella* | A |
| High | Morrow's honeysuckle | *Lonicera morrowii* | A |
| High | Tartarian honeysuckle | *Lonicera tartarica* | A |
| High | Purple loosestrife | *Lythrum salicaria** | A |
| High | Spike (Eurasian) watermilfoil | *Myriophyllum spicatum** | A |
| High | Common buckthorn | *Rhamnus cathartica* | A |
| High | Glossy buckthorn | *Frangula alnus (Rhamnus frangula)* | A |
| New Invader/High | Siberian peashrub | *Caragana arborescens* | A |
| New Inv/High | Gypsyflower (hound's-tongue) | *Cynoglossum officinale* | A |
| New Inv/High | Autumn olive | *Elaeagnus umbellata* | A |
| New Inv/High | Leafy spurge | *Euphorbia esula* | A |
| New Inv/High | Giant hogweed | *Heracleum mantegazzianum**, ** | A |
| New Inv/High | Dames rocket | *Hesperis matronalis* | A |
| New Inv/High | Paleyellow iris | *Iris pseudacorus** | A |
| New Inv/High | Purple moorgrass | *Molinia caerulea* | A |
| New Inv/High | Common reed | *Phragmites australis** | A |
| New Inv/High | Japanese knotweed | *Polygonum cuspidatum (Fallopia japonica)** | A |
| New Inv/High | Giant knotweed | *Polygonum sachalinense* | A |
| New Inv/High | Curly pondweed | *Potamogeton crispus** | A |
| New Inv/High | Stinking willie (tansy ragwort) | *Senecio jacobaea* | A |
| New Inv/High | Erect (Japanese) hedgeparsley | *Torilis japonica* | A |
| Medium | Wild chervil | *Anthriscus sylvestris* | A |
| Medium | Marsh thistle | *Cirsium palustre* | B |
| Medium | Purple crownvetch | *Securigera (Coronilla) varia* | A |
| Medium | Flat pea | *Lathyrus sylvestris* | A |
| Medium | Yellow and white sweet clovers | *Melilotus officinalis (M. alba* subsumed*)* | B |
| Medium | Wild parsnip | *Pastinaca sativa* | A |
| Medium | Reed canarygrass | *Phalaris arundinacea* | B |
| Medium | Scots pine | *Pinus sylvestris* | A |
| Medium | Garden valerian | *Valeriana officinalis* | A |

*Michigan listed noxious weed, or Michigan prohibited or restricted species.

**Federally listed noxious weed.

[#]A = Complete the ONF NNIP Reporting Form and GPS the location for each site; notify COR within 7 days.
B = If there are few scattered plants or a small area infested, note taxon, abundance and approximate location in the stand notes; record a representative lat-long; if it is a pure patch greater than 0.1 to 0.2 acres (use professional judgement), then complete the ONF NNIP form and GPS the location for each such site.

Low priority species: *Aegopodium podagraria, Arctium minus, Berteroa incana, Bromus inermis, Centaurea biebersteinii, Chrysanthemum leucanthemum, Cirsium arvense*, Cirsium vulgare, Dactylis glomerata, Daucus carota*, Galeopsis tetrahit, Hieracium aurantiacum, Hieracium piloselloides, Hypericum perforatum, Lapsana communis, Linaria vulgaris, Lotus corniculata, Lupinus polyphyllus, Myosotis scorpioides, Ranunculus acris, Robinia pseudoacacia, Rumex crispus, Salix fragilis / x rubens, Solanum dulcamara, Sonchus arvensis*, Tanacetum vulgare, Vinca minor.* Other exotics are not ranked.

Low priority species do not require reporting. You can make notes in the stand tracker if there is something unusual about the infestation.

# Ottawa National Forest
# Weed Reporting Form

**Weed Species:** _____ Occurrence number: _____

Project name: _____ Site name: _____

**Location** (Fill in either the legal description, latitude and longitude, UTM, or attach a map)

Legal Description: Twp _____ Rng _____ Sec _____ ¼ sec _____ ¼¼ sec _____

Latitude _____ Longitude _____

UTM _____

District: _____ Compartment: _____ Stand: _____

Directions to site (or include a detailed map) : _____

_____

_____

Owner: _____ County: _____

**Infested gross area** (acres): _____

% Gross Area Infested (typically 100%): _____

living room = .004 acres (12' x 16')
baseball diamond = 0.2 acres (90' x 90')
football field = 1.1 acres (300' x 160')

**% Cover** (canopy cover of the weed, 1 to 100): _____

Count: _____ (Circle one: plants or stems)

Dominant life form (circle one): Forbs, Graminoids, Nonvascular plants, Shrubs, Trees

Phenology (circle one): Pre-flowering , Flowering , Fruiting , Senescent

Distribution (circle one): Clumpy , Scattered patchy , Scattered even , Linear

**Observer:** _____ **Date observed:** _____

Address: _____ Phone: _____

Comments: _____

_____

_____

_____

_____

**The six items in bold must be filled out!** 26 March 2009

# Ottawa National Forest
# Weed Reporting Form: Field Definitions

These definitions are primarily taken from the 2005 Invasive Plant Inventory, Monitoring and Mapping Protocol Field Guide, available at the NRIS FSWeb web page: http://fsweb.nris.fs.fed.us/index.shtml

Weed species: Enter the scientific or common name for the weed species observed. Priority weeds to report include garlic mustard, Japanese barberry, non-native honeysuckles, purple loosestrife, non-native buckthorns, Eurasian water-milfoil, curlyleaf pondweed, Japanese knotweed, giant knotweed, wild chervil, crown vetch, garden valerian, leafy spurge, autumn olive, large knapweed or thistle infestations, and major infestations of any other non-native species.

Project name: If the observation of this weed was not associated with any specific project or inventory, then enter "None".

Occurrence number: Will be completed in the office.

Site name: Enter a name for the site. For example, "Bobcat Lake Campground."

Location: Fill in either the legal description, latitude and longitude, or UTM. If using GPS, set your receiver to map datum = NAD83.

Directions to site: Include other location details, such as the name of an associated road, lake, or stream.

Owner: Record the landownership where the site is located. For example, "USFS" for Ottawa National Forest land.

Infested gross area: Defined by drawing a line around the general perimeter of the infestation.

Percent (%) gross area infested: Proportion of the gross area that contains the target invasive weed. Typically = 100%. If, for some reason, your polygon is larger then the infestation boundary, use less than 100% (*e.g.* linear infestations within a larger area).

Percent (%) cover: The canopy cover of the weed within the infested gross area. Use a whole number, 1 to 100.

Infested area: Not on the form. Gross area X percent infested = Infested Area. Infested Area was refined in 2009 as the area of land, in acres, containing a single invasive species delineated by the actual perimeter of the infestation or population as defined by the outer edge of the canopy cover of the plants or the visible population of other taxa, excluding adjacent areas not infested and outside the perimeter of the population. Now infested area will usually equal gross area.

Count: The total number of plants or stems across the population or infestation. Estimates are okay, although we cannot enter a range of numbers.

Dominant life form: Dominant life form on the site (not the life form of the weed). Dominant life form is defined as the characteristic form or appearance of a species at maturity.

Phenology: The stage of plant development of the weed related to buds, flowers, or fruit. The field indicates the phenology of most of the plants at the time of sampling.

Distribution: The spatial distribution of individual plants within a population and across the landscape

Comments: Include other details, such as a description of the habitat and surroundings, associated species, and specific resource concerns. Please note if you conducted any treatment (pull, spray) of the weeds.

**2018 List of Rare Plants for the Ottawa NF (Regional Forester's Sensitives, State listed, and other species of potential viability concern, known or likely to occur on the Forest)**

*Adlumia fungosa*
*Allium schoenoprasum*
*Amerorchis rotundifolia*
*Armoracia lacustris [Neobeckia aquatica]*
***Artemisia ludoviciana***
*Artemisia serrata*
*Asplenium rhizophyllum*
*Asplenium trichomanes-ramosum [A. viride]*
*Astragalus canadensis*
*Astragalus neglectus*
*Bidens discoidea**
*Botrychium acuminatum*
***Botrychium ascendens***
***Botrychium crenulatum***
*Botrychium hesperium/michiganense*
*Botrychium lunaria*
*Botrychium minganense*
*Botrychium mormo*
*Botrychium oneidense*
*Botrychium pallidum*
*Botrychium pseudopinnatum*
*Botrychium rugulosum*
*Botrychium simplex*
*Calamagrostis lacustris [C. stricta* ssp. *inexpansa]*
*Callitriche hermaphroditica*
*Callitriche heterophylla*
*Calypso bulbosa*
*Carex assiniboinensis*
*Carex gynocrates*
*Carex livida*
*Carex michauxiana*
*Carex trichocarpa*
*Carex vaginata*
*Ceratophyllum echinatum*
*Clematis occidentalis*
*Collinsia parviflora*
*Conopholis americana**
*Crataegus douglasii*
*Cryptogramma stelleri*
*Cypripedium arietinum*
*Cypripedium parviflorum v. pubescens and v. makasin*
*Cypripedium reginae*
*Cystopteris laurentiana*
*Danthonia intermedia*
*Dentaria [Cardamine] maxima*
*Disporum [Prosartes] hookeri*
*Drosera anglica*
*Dryopteris expansa*
*Dryopteris filix-mas*
*Dryopteris fragrans*
*Dryopteris goldiana**
***Dryopteris marginalis****
*Eleocharis olivacea*
*Eleocharis quinqueflora*
*Elymus glaucus*
*Erigeron acris*
*Eriophorum chamissonis*
*Erythronium albidum*
*Galearis [Orchis] spectabilis*
*Galium brevipes*
*Gentiana linearis*
*Geocaulon lividum*
*Gnaphalium sylvaticum*
*Gratiola aurea [G. lutea]*
*Gymnocarpium robertianum*
*Helianthus mollis*
*Hierochloe odorata**
*Huperzia appalachiana*
*Huperzia selago*
*Hypericum prolificum*
*Juglans cinerea*
*Juncus stygius*
*Listera auriculata*
*Liparis loeselii*
*Littorella uniflora*
*Lycopus virginicus*
*Lysimachia hybrida*
*Malaxis brachypoda [M. monophylla* var. *brachypoda]*
*Mimulus guttatus*
*Mimulus moschatus**
*Moehringia [Arenaria] macrophylla*
*Muhlenbergia uniflora*
*Myriophyllum farwellii*
*Nuphar pumila [N. lutea* ssp. *pumila]*
***Ophioglossum pusillum***
*Orobanche uniflora**
*Oryzopsis [Piptatherum] canadensis*
*Panax quinquefolius*
*Parnassia palustris*

*Pellaea atropurpurea*
*Petasites sagittatus*
*Phegopteris hexagonoptera*
*Pinguicula vulgaris*
*Polemonium occidentale* ssp. *lacustre*
*Polygonum careyi*
*Potamogeton confervoides*
*Potamogeton vaseyi*
*Primula mistassinica*
*Pterospora andromedea*
*Pyrola asarifolia*
*Pyrola minor*
*Ranunculus cymbalaria*
*Ranunculus gmelinii*
*Ranunculus rhomboideus*
*Rhynchospora fusca*
*Ribes oxyacanthoides*
*Sagina nodosa*
*Salix pellita*
*Senecio indecorus*
*Silene nivea*
*Sisyrinchium strictum [S. montanum* var. *montanum]*
*Streptopus amplexifolius **
*Thalictrum venulosum* var. *confine**
*Thelypteris noveboracensis*
*Tiarella cordifolia*
*Trisetum spicatum*
***Ulmus thomasii NEW 2016***
*Utricularia geminiscapa*
*Utricularia gibba*
*Utricularia resupinata**
*Vaccinium cespitosum*
***Veronicastrum virginicum****
*Viola lanceolata**
*Viola novae-angliae* ssp. *grisea*
*Viola novae-angliae* ssp. *novae-angliae*
*Woodsia alpina*
*Woodsia obtusa*
*Zizia aptera*
*Zizania palustris**

* No MNFI form required, just a GPS reading for the location, short note on habitat, and estimated population size

**Ottawa National Forest Botany Program**
**Protocol for Rare Plant Surveys**

2/16/16 Update S. Trull

I. Survey Protocol

*Pre-field review*

Review topographic maps; aerial photographs; compartment maps; stand type and other information prior to field work to select the most likely rare plant habitat areas within your survey area. Use rare plant guides; element stewardship abstracts; floras; and other relevant information to determine which listed species are likely to occur in the project area. Review locations of documented element occurrences in/near your survey area. Select access routes and check with COR or District personnel regarding condition of roads, trails, location of gates, etc. Contact Ranger or COR if administrative use of roads not on MVUM is needed.

Stand type legend:

| Code | Forest/Cover Type |
|---|---|
| 01 | jack pine |
| 02 | red pine |
| 03 | white pine |
| 04 | white pine-hemlock |
| 05 | hemlock |
| 11 | balsam fir-spruce-aspen-birch |
| 12 | wetland black spruce & tamarack together >70% (BS>T) |
| 14 | wetland northern white cedar >50% |
| 15 | tamarack & black spruce together >70% (T>BS) |
| 16 | white spruce >50% |
| 17 | upland black spruce >50% |
| 18 | mixed swamp conifer (fir, hemlock, black spruce, tamarack >60%, white cedar <50%) |
| 19 | upland northern white cedar >50% |
| 20 | hardwoods-hemlock (hemlock 20-50%) |
| 41 | northern red oak-white ash-white pine |
| 48 | jack pine-oak >80% (oak at least 20%) |
| 49 | red pine/white pine-oak >80% (oak at least 20%) |
| 55 | northern red oak |
| 71 | black ash-elm-red maple >50% |
| 76 | red maple (wet site) >75% |
| 79 | mixed lowland hardwoods |
| 80 | hardwoods-northern red oak (oak 20-50%) |
| 81 | hardwoods-yellow birch (yellow birch >20%) |
| 82 | hardwoods-basswood (basswood >20%) |
| 84 | red maple (dry site) |
| 85 | sugar maple >75% |
| 89 | mixed hardwoods (red & sugar maple, yellow birch, basswood, ash, elm, paper birch, aspen, bigtooth aspen =80%) |
| 91 | quaking aspen >50% |
| 92 | paper birch >50% |

| | |
|---|---|
| 93 | bigtooth aspen >50% |
| 95 | aspen-birch-white spruce-balsam fir (aspen & PB>WS & fir) |
| 97 | lowland brush (alder, dogwood, willow) |
| 98 | upland brush (hazel, blueberry, sweetfern, cherry, elderberry, sumac, blueberry, raspberry |
| 99 | open (water, wet grass, leatherleaf, labrador tea, sedge meadow, grass & fern) |

Stand size density legend:

| Code | Stocking |
|---|---|
| 0 | nonstocked (<16% stocked) |
| 1 | seedling/sapling (16-39%) |
| 2 | seedling/sapling (40-69%) |
| 3 | seedling/sapling (>70%) |
| 4 | poletimber (16-39%) |
| 5 | poletimber (40-69%) |
| 6 | poletimber (>70%) |
| 7 | sawtimber (16-39%) |
| 8 | sawtimber (40-69%) |
| 9 | sawtimber (>70%) |

poletimber = 5-8.9" DBH for aspen & conifers; 5-10.9" DBH for hardwoods
sawtimber = >= 9" DBH for aspen & conifers; >= 11" DBH for hardwoods

*Field surveys*

Conduct field surveys on a controlled intuitive or meander basis. That is, crisscross the survey stands while detouring to the most likely habitats for listed plants, such as rock outcrops, wetland inclusions, etc. Check both homogenous and heterogenous parts of stands, paying particular attention to ecotones. Sample the full range of habitats and site conditions included in the survey stands. Conduct surveys in spring, summer, and fall to observe plants that bloom in different seasons; follow different routes each time (except for rechecking specific areas). For a few habitats in the project area, surveys may not be needed in all three seasons, but this should be the exception.

Mark in the field (e.g. with flagging tape) and/or take a GPS waypoint for particular areas or plant populations noted while surveying that need special attention in a subsequent survey, so you can easily relocate them. Use Botany assigned-color flagging: yellow/black diagonal stripe (can be tied with orange for greater visibility but do not flag with orange alone). Do not extensively mark populations of listed plants other than temporarily, to avoid drawing undue attention to these areas.

Record a GPS track for your survey (use NAD83 datum). Submit tracks in format compatible with the Ottawa GIS, showing dates surveyed. Check with COR to ensure compatibility of computer systems.

II. Plant Survey General (aka Habitat) Form

Complete the form as described below:

*Post survey edits completed*: after all seasons' surveys are complete, and you have checked the forms for completeness and legibility, including the associated species forms, write your name and the date. Make sure

you have identified all remaining unknowns. (For plants too immature to identify, check in a subsequent season or ensure your identification to genus or subgenus level sufficient to know the plant is not a listed taxon. Note this in comments.) Make sure you have submitted all photographs (see below) and completed any MNFI forms (see below). Make sure any collected specimens have a "final"/office ID and label provided. This field is the last one to be completed on the form by the original surveyor. This field signifies that the project survey records are ready for review by staff botanists.

*Reviewed*: An ONF botanist signs and dates this form after review, checking of any tentative ID(s), confirmation or change of ID(s) by experts (MICH), confirming any unclear data with original surveyor. When completed, this field signifies that the project report is complete and may be used in biological evaluations, NEPA documents, etc.

*Project*: List the project name, including type such as vegetation management project (VMP), gravel pit, land exchange (LX), trail, etc.

*District*: Use a 3-letter abbreviation for the Ranger District where the project occurs, as follows:

| | | |
|---|---|---|
| BER = Bergland | BES = Bessemer | IRN = Iron River |
| KEN = Kenton | ONT = Ontonagon | WAT = Watersmeet. |

*Quad(s)*: List the name(s) of the topographic quad(s) which cover the project area. For large timber sale projects under contract, this block may be skipped since this information is in the contract.

*T, R, Sec(s), (QQ), Compartment(s) and stand number(s)*: List the township, range, sections, partial sections, compartments, and stand numbers which cover the survey area, as applicable. Quarter-quarter designations may only apply to smaller projects, like gravel pit surveys. For large timber sale projects under contract, this block may be skipped since this information is in the contract.

*Total ac/mi surveyed*: List the total acres (most projects) or miles (e.g. for linear features like trails) which have been covered by one **or more** surveys in the project area. Circle the units used. This number is **not** a sum of the acreage or miles covered each time surveys occurred. (This number is used to calculate the percent of the project area which was surveyed.) For large timber sale projects under contract, this block may be skipped since acreage is in the contract.

*Project area acres/mi*: List the size of the project in acres or miles (linear projects). Circle the units used. This information should be provided by the staff botanist/COR.

*Hours by survey fields*: List the hours spent for each survey (spring, summer, fall) as follows:

*1-way travel hrs*: list hours (to nearest quarter) spent to get to the project area from your duty station/office, in one direction. If you begin travel somewhere other than your duty station, estimate the time as if you had started at your normal duty station. If you travel to a second project area on the same day, estimate the one-way travel time to the second site from your duty station. If more than one botanist is participating in the survey and surveying different areas, count the time as if each person traveled separately to reach the site. If you, or a second botanist, goes to the site on another day, count the travel time again. (These data are used to estimate unit survey costs and effort expended on surveys). For large timber sale projects under contract, this block may be skipped.

*Survey hrs*: list hours spent on site, actually surveying (i.e. exclude lunch break). If more than one botanist is participating in the survey (without completing his/her own set of forms), list the total botanist-hours (e.g. 2 botanists are on site from 10 a.m. to 4 p.m. with a ½ hour lunch; survey hours = 11). List total for all the days spent in a given season.
*Key hrs*: list hours spent keying out unknown plants (off-site; keying time while in field is included in survey hrs), summed for all botanists participating in the survey under one set of field forms.

*TES plants, Taxon, and MNFI forms done fields*: Circle Y for yes or N for no. If TES plants are found, list the taxa. MNFI forms must be completed before the project is complete.

*Photos taken etc. fields*: If you take photographs/slides of plants during a survey, circle Y for yes. Otherwise circle N for no. Staff botanists should record where they are filed (e.g. the District Office or Supervisor's Office). Be sure photo filename or properties includes species or topic of photo. Provide photos in .jpg format **at resolution no greater than 2400x3000 pixels (less is fine for habitat photos).** Typically this equates to a camera setting of ~7 mp; 4-5 megapixel setting will suffice for habitat shots.

*Description of area:* Note directions to site, a general description of the project area, its landscape context, any access complexities (e.g. need to cross private land), general features.

*HABITAT 1.* In this field, describe the first habitat you encounter during the survey, giving information on overstory and community types, topography, aspect, drainage features, geology, soils, seral state, disturbance, etc.

*HABITAT 2-5*. In these fields, record similar information for the second, third, fourth, fifth habitats you encounter. Consider it a new habitat if a major change in vegetation occurs, such as the following:
a) a change from forest to non-forest, from shrub to herb domination, or vice versa;
b) within forest, a change from one overstory series to another, such as from hardwood to pine or aspen, or from upland hardwoods to lowland hardwoods, or from jack pine to red pine;
c) in herbaceous areas, a change from forb dominated to graminoid dominated or to moss-lichen dominated, or from terrestrial herbaceous to aquatic herbaceous dominated.

For small inclusions, you do not need to start a new habitat block, but note in the description that the habitat includes inclusions of specified type (e.g. "several small vernal pools occur in this habitat"). However, if you expect to encounter the inclusion type elsewhere in the project area, start a new habitat block, and use it and the associated species form each time you cross into it (e.g. you may have a habitat block for intermittent drainage riparian areas).

If you need more than five habitat blocks, use a second general form and change the numbers to Habitat 6, 7, etc. Record the project name at the top, and write CONTINUED. You do not need to repeat the information at the top of the continuation form, just skip to the habitat blocks.

*COMMENTS*: Record any other relevant information, such as stand health, understory regeneration, other projects surveyed in the area, unique features, invasive plant or worm infestations, threats to the site, deer herbivory levels, whether additional surveys are needed (e.g. beyond the scheduled spring, summer, fall

surveys), rare animals seen (report to District Biologist), heritage sites seen (report to Forest Archaeologist), etc. For timber project contract surveys, most of this type of information should be put in the Stand Tracker form.

NOTE: Some of the above fields may be completed partially before going to the field, and partially afterwards, in the office. All fields MUST be legible. If your field copy is not legible, prepare a clean copy after field surveys are complete. Turn in all forms, survey routes, pressed specimens, and photos/slides to staff botanists by the end of the field season. **Electronic versions of the forms, with information typed in, are preferred for the final forms.**

III. Plant Survey Species Form

*Project:* Write project name.

*Habitat #:* List the habitat number from the general form to which the species list corresponds. You may cross in and out of this habitat during your survey: switch to another page for the new habitat, and then return to your original page when you cross back into the original habitat.

*Survey extent:* only use this field for surveys where stand acreage is NOT provided in contract. List the total extent of acres or miles covered by surveys each time you survey, separated by semicolons. Circle the units used. Consider survey extent to include actual acreage examined as well as immediately adjacent comparable habitat. That is, you are listing the acreage/miles to which the species list applies. This total will usually be a larger number than the summary acres on the general form.

S*urveyor(s) and survey dates*: List the surveyor(s) names and dates of surveys, separated by semicolons. This block may be skipped for contracts. Example:

survey extent (miles/acres): 60; 46; 29; 100

surveyor(s) and survey dates: SJ Trull 5/25/98; Trull/C Matula 6/19/98; Matula 6/20/98; Trull 8/31/98.

*Species Rows*

Mark the taxa observed in the subject habitat. Use a different symbol for different seasons as shown in legend on form. You do not need to mark a second or third time if you note a species already observed in a previous season, just mark those species newly observed each season. Write in species epithets as needed (e.g. *Carex* **intumescens**). If you find a species not listed, list it on the blank lines. If you can only identify a plant to genus, note it as sp. and **check** in the next season. Finish the identification if you find the plant the next season. If you still cannot identify it to the species level, describe in the comments field why you can't and justify how you know the plant could not be a listed taxon (e.g. an orchid too immature to identify past *Cypripedium*, but the leaves are not right for *C. arietinum*). This is a last resort and you should get an identification to species in nearly all cases. Collect samples to identify in the office as needed. Some lines show multiple species epithets. This is done to save space on the form, it does not mean to lump these taxa together; be sure to mark which were observed.

Back side: *Collected Species Data*

For those species that you collect to press and submit to an herbarium (as opposed to those you collect or "top-snatch" to identify in the office, which are already represented in our herbarium, are not unusual, and you just need reference books, a microscope, or more time to identify), complete the fields on the form (for tracking specimens).

For such specimens, also record, **while in the field**, the following information which is needed for the herbarium label: **collector's name, collection number; tentative ID; precise location where the plant is collected, including township, range, section, lat-long as well as relevant details such as road numbers or local landmarks; habitat; topography; geology; soil moisture or water regime; aspect; associated species; color; abundance; apparent health or vigor; anomalies**, etc. You may record this information in your bound collecting record book if you carry one, or on the field form, or on field notepaper you are carrying. Subsequently, you must prepare a **typed** label for the voucher specimen and include it in the newspaper with the plant. **FOLLOW ETHICAL COLLECTING PRACTICES** and take good care of your specimens so that the herbarium sheet prepared with them will be as informative as possible. Specimens should easily fit within a standard folded ½ page of newspaper; do not extend the newspaper folder with additional paper. Please review Dr. Ed Voss' article on labeling prior to preparing labels. Typed labels may be submitted on paper or electronically; if the latter, the Forest will print onto high quality paper and submit with specimens.

NOTE: As a federal employee, or contractor to the Ottawa National Forest, you do not need a permit to collect plants on the Ottawa National Forest, even if the plants are included on the State of Michigan special plants list. Michigan Natural Features Inventory (MNFI) disagrees with this. The issue has been discussed and no agreement reached with MNFI, but this is USDA Forest Service policy verified by the Office of General Counsel.

*Collector and number*: List your name and the collection number using your chosen numbering system.

*Field ID*: List a tentative ID and any needed notes.

*Final ID*: List the ID you determine after consulting reference books, herbarium specimens, other Ottawa botanists, etc. This may be changed after submission to an expert on the genus, but will be the name put on the specimen's label.

**OTTAWA NATIONAL FOREST BOTANY PROGRAM: PLANT SURVEY GENERAL FORM** ***Contractors skip gray data fields*** USDA FS 2/16

***Post-survey edits completed*** ***Reviewed***

***(name, date):*** _____ ***(name, date):*** _____

| Project | District | Quad(s) |
|---|---|---|
| | | |

| T | R | Sec(s) | (QQ) | Compartment(s) and stand number(s) | tot ac/mi surveyed (1+ times) |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | project area acres/mi |
| | | | | | |
| | | | | | |

| | 1-way travel hrs | survey hrs | key hrs |
|---|---|---|---|
| spring | | | |
| summer | | | |
| fall | | | |

TES plants: Y N

Taxon: _____

Taxon: _____

MNFI Forms done: Y N

Photos taken? Y N

filed at:

date filed:

DESCRIPTION OF AREA (directions to site, etc.):

HABITAT 1 (describe community type, aspect, topography, drainage features, geology, soils, seral stage, etc.):

HABITAT 2 (describe community type, aspect, topography, drainage features, geology, soils, seral stage, etc.):

HABITAT 3 (describe community type, aspect, topography, drainage features, geology, soils, seral stage, etc.):

HABITAT 4 (describe community type, aspect, topography, drainage features, geology, soils, seral stage, etc.):

HABITAT 5 (describe community type, aspect, topography, drainage features, geology, soils, seral stage, etc.):

COMMENTS (other projects in area, special features, threats, invasive species, additional surveys needed, etc.):

**OTTAWA NATIONAL FOREST BOTANY PROGRAM: PLANT SURVEY SPECIES FORM** ***** Contractors: skip gray blocks***** **USDA FS 2/16**

Survey extent (miles/acres):

Project:

Habitat #

Surveyor(s)/dates:

**TREES**

Abies balsamea
Acer rubrum/saccharum
Betula alleghaniensis/papyrifera
Fraxinus nigra/americana/pennsylv
Larix laricina
Picea glauca/mariana
Pinus banksiana/resinosa/strobus
Populus grandiden./tremuloides
Prunus pensyl./serotina/virginiana
Quercus rubra
Thuja occidentalis
Tilia americana
Tsuga canadensis
Ulmus americana
_____

**SHRUBS, SUBSHRUBS, VINES**

Acer spicatum
Alnus crispa/rugosa (=incana)
Amelanchier _____
Andromeda glaucophylla
Arctostaphylos uva-ursi
Aronia prunifolia
Carpinus caroliniana
Chamaedaphne calyculata
Clematis virginiana
Comptonia peregrina
Cornus altern./canad./stolonifera
Corylus cornuta
Diervilla lonicera
Dirca palustris
Epigaea repens
Gaultheria hispidula/procumbens
Ilex verticillata
Kalmia polifolia
Ledum groenlandicum
Linnaea borealis
Lonicera canadensis/oblongifolia
Mitchella repens
Nemopanthus mucronatus
Ostrya virginiana
Parthenocissus inserta/quinque.
Rhus _____
Ribes cynosbati/lacustre/triste
Ribes _____
Rosa blanda/_____
Rubus allegheniensis/hispidus
Rubus idaeus/parviflor./pubescens
Rubus _____
Salix _____
Sambucus canadensis/racemosa
Smilax _____
Sorbus americana/decora
Taxus canadensis
Vaccinium angustif./myrtilloides
Vaccinium macrocarp./oxycoccos
Vaccinium _____
Viburnum _____
_____

**FORBS**

Achillea millefolium
Actaea pachypoda/rubra
Agrimonia gryposepala/striata
Allium tricoccum
Anaphalis margaritacea
Anemone canadensis/quinque.
Antennaria howellii/_____
Apocynum androsaem./cannabin.
Aquilegia canadensis

**FORBS, cont'd.**

Aralia nudicaulis/racem./hispida
Arctium minus
Arisaema triphyllum
Asarum canadense
Aster ciliolatus/lanceol./lateriflorus
Aster macrophyl./puniceus/umbellat.
Aster _____
Bidens cernuus/connatus/frondosus
Calla palustris
Caltha palustris
Campanula _____
Cardamine _____
Caulophyllum thalictroides
Centaurea jacea/biebersteinii
Chrysanthemum leucanthemum
Chrysosplenium americanum
Cicuta bulbifera/maculata
Circaea alpina/lutetiana
Cirsium arv./muticum/palustre/vulgare
Claytonia caroliniana
Clintonia borealis
Coptis trifolia
Corallorhiza maculata/tridifa
Cypridedium acaule/reginae
Dentaria diphylla/laciniata
Dicentra cucullaria/canadensis
Epilobium ang./cili./color./_____
Epipactis helleborine
Erigeron annuus/philad./strigosus
Erythronium americanum
Eupatorium maculatum
Eupatorium perfoliatum/rugosum
Euthamia graminifolia
Fragaria vesca/virginiana
Galeopsis tetrahit
Galium trifidum/triflor/._____
Geum aleppicum/canadense/macro.
Goodyera oblo./pubes./repens/tess.
Hepatica acutiloba/americana
Hieracium aurant./_____
Hypericum perforatum/_____
Impatiens capensis
Iris versicolor
Lactuca biennis/canad./_____
Laportea canadensis
Lobelia inflata
Lotus corniculatus
Lycopus americanus/uniflorus
Maianthemum canadense
Mentha arvensis
Mitella diphylla/nuda
Moneses uniflora
Monotropa hypopithys/uniflora
Osmorhiza chilensis/claytonii/longisty.
Oxalis acetosella/dillenii/stricta
Panax trifolium
Petasites palmatus
Plantago lanceolata/major
Platanthera _____
Polygala pauciflora
Polygonatum pubescens
Polygonum amphib./cilinode/sagittat.
Polygonum _____
Potentilla _____
Prunella vulgaris
Pyrola elliptica/_____
Ranunculus abortivus/acris/hispidus
Ranunculus pensylvan./recurvatus
Ranunculus _____
Rumex acetosel./crispus/_____

**FORBS, cont'd.**

Sanguinaria canadensis
Sanicula marilandica/_____
Satureja vulgaris (Clinopodium vulg.)
Scutellaria galericulata/lateriflora
Sium suave
Smilacina racem./stellata/trifolia
Solidago altis./canaden./flexicaul.
Solidago hispida/nemoral./uliginosa
Solidago _____
Stellaria _____
Streptopus amplexifolius/roseus
Taraxacum erythrosp./officinale
Thalictrum dasyc./dio./_____
Triadenum fraseri
Trientalis borealis
Trifolium aureum/pratense/repens
Trillium cernuum/grandiflorum
Typha angustifolia/latifolia
Urtica dioica
Uvularia grandiflora/sessilifolia
Verbascum thapsus/_____
Verbena hastata/urticifolia
Veronica officin./serpyl./_____
Viola adunca/canadensis/conspersa
Viola cucullata/pubescens/renifolia
Viola _____
Waldsteinia fragarioides
_____
_____
_____

**FERNS AND ALLIES**

Adiantum pedatum
Asplenium trichomanes
Athyrium filix-femina
Botrychium diss. v. diss. /v. obliq.
Botrychium lanceolatum v. ang.
Botrychium matricariifolium
Botrychium multifidum/virginianum
Botrychium _____
Cystopteris bulbifera/fragilis
Deparia acrostichoides (A. thelyp.)
Dryopteris carthus./cristata/intermed.
Gymnocarpium dryopteris
Matteuccia struthiopteris
Onoclea sensibilis
Osmunda cinnam./clayton./regalis
Phegopteris connectilis/hexagon.
Polypodium virginianum
Polystichum braunii/lonchitis
Pteridium aquilinum
Thelypteris palustris
Woodsia ilvensis
Equisetum arvense/fluviat./pratense
Equisetum scirpoides/sylvatic.
Diphasiastrum complan./digitat.
Huperzia lucidula
Lycopodium annotinum/clavatum
Lycopodium dendroideum/obscur.
Selaginella rupestris
_____
_____
_____
Sphagnum sp./_____

**GRAMINOIDS**

Agrostis peren./hyemalis/_____
Brachyelytrum erectum
Bromus ciliatus/inermis/_____
Calamagrostis canadensis
Carex arctata/brunnescens/canesc.
C. crinita/deweyana/disperma
C. gracillima/gynandra/intumescens
C. lacustris/leptonervia/pedunculata
C. pensylvanica/retrorsa/scabrata
C. stipata/stricta/trisperma
Carex _____
Carex _____
Carex _____
Cinna latifolia
Danthonia spicata/_____
Elymus hystrix (Hystrix patula)
Festuca rubra/_____
Glyceria canadensis/grandis/striata
Juncus effusus/tenuis/_____
Luzula acuminata
Milium effusum
Muhlenbergia _____
Oryzopsis asperfolia
Phleum pratense
Poa alsodes/compressa/palustris
Poa praten./saltuen./_____
Schizachne purpurascens
Scirpus atro./cyper./_____
_____
_____
_____

**ADDITIONAL SPECIES**

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

Survey symbols: Spring /
Summer X Fall o

| **COLLECTED SPECIES DATA** | | |
|---|---|---|
| COLLECTOR and NUMBER | FIELD ID | FINAL ID |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

***SENSITIVE PLANT SEARCH TIMES***

| SPECIES | LIST | APRIL | | | | MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | | SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Amerorchis rotundifolia* | RFSS-L | | | | | | | | | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| *Moehringia macrophylla* | RFSS | | | | | | | | | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| *Armoracia lacustris* | RFSS-L | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Asplenium rhizophyllum* | RFSS-L | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | + | + | + | + | | | | |
| *Astragalus canadensis* | RFSS | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Astragalus neglectus* | RFSS | | | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Bidens discoidea* | pRFSS | | | | | | | | | | | | | | | + | X | X | X | X | X | X | X | | | | | | | | | | |
| *Botrychium hesperium* | RFSS | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Botrychium lunaria* | RFSS-L | | | | | | | + | + | X | X | X | X | X | X | X | X | + | + | | | | | | | | | | | | | | |
| *Botrychium minganense* | RFSS-L | | | | | | | | X | X | X | X | X | X | X | X | X | + | + | + | + | | | | | | | | | | | | |
| *Botrychium mormo* | RFSS | | | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | + | + | + | + | | | | | | |
| *Botrychium oneidense* | RFSS | | | | | + | + | + | + | Old leaves? | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | + | + | | | | |
| *Botrychium pallidum* | RFSS-L | | | | | | | | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| *Botrychium rugulosum* | RFSS | | | | | | | | X | X | X | + | + | + | + | + | + | X | X | X | X | X | X | X | X | + | + | + | + | | | | |
| *Calamagrostis lacustris* | RFSS | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Calypso bulbosa* | RFSS | | | | | | | + | X | X | X | + | | | | | | | | | | | | | | | | | | | | | |
| *Carex backii* | RFSS-L | | | | | | | | | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | |
| *Crataegus douglasii* | RFSS-L | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | X | X | + | + | + | + | + | + | + | + | | |
| *Cynoglosum boreale* | Delisted | | | | | + | + | X | X | X | X | X | X | X | X | + | + | + | + | + | + | | | | | | | | | | | | |
| *Cypripedium arietinum* | RFSS | | | | | | | + | X | X | X | + | | | | | | | | | | | | | | | | | | | | | |
| *Cystopteris laurentiana* | RFSS-L | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Cardamine maxima* | RFSS | | | | | + | X | X | X | X | + | + | + | + | + | | | | | | | | | | | | | | | | | | |
| *Disporum hookeri* | RFSS | | | | | | | | | X | X | X | X | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| *Dryopteris expansa* | Delisted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Eleocharis olivacea* | RFSS-L | | | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | | | | | | | |
| *Erythronium albidum* | RFSS-L | | | | + | X | X | X | X | + | + | + | | | | | | | | | | | | | | | | | | | | | |
| *Galearis spectabilis* | RFSS | | | | | | | + | X | X | X | X | + | | | | | | | | | | | | | | | | | | | | |
| *Geocaulon lividum* | RFSS-L | | | | | | | | | | | + | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Huperzia selago* | RFSS | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | + | + | | | | |
| *Juglans cinerea* | RFSS | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Juncus stygius* | RFSS-L | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Juncus vaseyi* | RFSS-L | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Listera auriculata* | RFSS-L | | | | | | | | | | | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | |
| *Littorella uniflora* | RFSS | | | | | | | | | | | | + | + | + | X | X | X | X | X | X | + | | | | | | | | | | | |
| *Malaxis brachypoda* | RFSS-L | | | | | | | | | | + | X | X | X | X | X | X | X | X | X | X | + | | | | | | | | | | | |
| *Mimulus guttatus* | RFSS | | | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | + | + | | | | | | | | | | |
| *Muhlenbergia uniflora* | RFSS | | | | | | | | | | | | + | X | X | X | X | X | X | X | X | + | + | | | | | | | | | | |
| *Myriophyllum farwellii* | RFSS | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Nuphar pumila* | RFSS | | | | | | | | | + | + | + | + | X | X | X | X | X | + | + | | | | | | | | | | | | | |
| *Orobanche uniflora* | RFSS | | | | | | | | | + | X | X | X | + | + | | | | | | | | | | | | | | | | | | |
| *Oryzopsis canadensis* | RFSS-L | | | | | | | | | | X | X | X | X | X | X | X | + | + | + | + | + | + | + | + | | | | | | | | |
| *Panax quinquefolius* | RFSS | | | | | | | | | X | X | X | X | X | X | X | X | + | + | + | + | + | + | + | + | | | | | | | | |

X = Optimum time to seach

+ = OK time with good conditions, or search time is uncertain

7 February 2007

***SENSITIVE PLANT SEARCH TIMES***

| SPECIES | LIST | APRIL | | | | MAY | | | | JUNE | | | | JULY | | | | AUGUST | | | | SEPTEMBER | | | | OCTOBER | | | | NOVEMBER | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Petasites sagittatus* | RFSS | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | X | + | | | | | | | | | | | | |
| *Phegopteris hexagonoptera* | RFSS-L | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | |
| *Polemonium occidentale* | Watch | | | | | | | | | | | + | X | X | X | + | + | | | | | | | | | | | | | | | | |
| *Polygonum careyi* | RFSS | | | | | | | | | + | + | + | + | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Potomogeton confervoides* | RFSS-L | | | | | | | | | | | | | + | X | X | X | X | X | X | X | X | X | + | + | | | | | | | | |
| *Pterospora andromeda* | RFSS | | | Old stems | | + | + | + | + | + | + | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Pyrola asarifolia* | RFSS | | | | | | | | | | X | X | X | X | X | X | X | + | | | | | | | | | | | | | | | |
| *Pyrola minor* | RFSS-L | | | | | | | | | | | | + | X | X | X | X | X | + | | | | | | | | | | | | | | |
| *Ranunculus gmelinii* | RFSS-L | | | | | | | | | | | + | X | X | X | X | X | X | X | X | X | + | + | | | | | | | | | | |
| *Ranunculus rhomboideus* | RFSS | | | | | X | X | X | X | X | X | X | | | | | | | | | | | | | | | | | | | | | |
| *Salix pellita* | RFSS | | | | | | | + | + | + | + | + | + | + | + | X | X | X | X | X | X | X | X | + | + | | | | | | | | |
| *Scirpus subterminalis* | RFSS | | | | | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | |
| *Silene nivea* | pRFSS | | | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | + | + | | | | | | | | |
| *Thelypteris noveboracensis* | RFSS | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | |
| *Tiarella cordifolia* | RFSS | | | | | + | + | X | X | X | X | X | X | + | + | + | + | + | + | + | + | + | | | | | | | | | | | |
| *Utricularia geminiscapa* | RFSS-L | | | | | | | | | | | + | + | X | X | X | X | X | X | X | X | + | + | | | | | | | | | | |
| *Vaccinium cespitosum* | RFSS | | | | | X | X | X | X | X | X | X | X | X | X | X | X | + | + | + | + | + | + | | | | | | | | | | |
| *Viola lanceolata* | RFSS | | | | | | | | + | + | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | |
| *Viola novae-angliae* | RFSS | | | | | | | + | X | X | X | + | + | | | | | | | | | | | | | | | | | | | | |

X = Optimum time to seach
+ = OK time with good conditions, or search time is uncertain

7 February 2007

| Stand Tracker, Drumloid Ridge SOUTH | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | these stands do not require the 3rd, fall, survey | | | | | | |
| | | | | | | | Survey Dates (MM/DD/YY) | | | | | | | | | |
| District | Com-part-ment | Stand | Acres | Forest Type | Year of Origin | Size Density | 1st survey | 2nd survey | 3rd survey | Habitat # | Wormed? (Y/N and list evidence: worms seen, depleted duff, castings, etc.) | *Asclepias* ? (list species, coords, patch size) | Carex pensylvanica lawn? (Y/N and % of stand affected) | Comments (large trees, rock outcrops, fire scars, down wood, slope, enbedded wetlands, etc.) | Plants of Interest (put * if MNFI form completed) | NNIP (put * if reporting form completed) |
| 3 | 104 | 1 | 5 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 104 | 2 | 496 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 104 | 4 | 13 | 81 | 0 | 6 | | | | | | | | | | |
| 3 | 104 | 6 | 18 | 85 | 0 | 6 | | | | | | | | | | |
| 3 | 104 | 7 | 48 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 104 | 8 | 14 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 104 | 9 | 10 | 81 | 0 | 6 | | | | | | | | | | |
| 3 | 104 | 10 | 30 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 104 | 11 | 5 | 91 | 1979 | 3 | | | | | | | | | | |
| 3 | 104 | 14 | 17 | 81 | 1850 | 6 | | | | | | | | | | |
| 3 | 104 | 18 | 3 | 89 | 0 | 6 | | | | | | | | | | |
| **104 Total** | | | 659 | | | | | | | | | | | | | |
| 3 | 105 | 2 | 309 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 105 | 4 | 23 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 105 | 7 | 287 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 105 | 8 | 74 | 81 | 0 | 9 | | | | | | | | | | |
| 3 | 105 | 10 | 68 | 11 | 1900 | 9 | | | | | | | | | | |
| 3 | 105 | 11 | 73 | 81 | 1900 | 5 | | | | | | | | | | |
| 3 | 105 | 13 | 10 | 91 | 1920 | 6 | | | | | | | | | | |
| 3 | 105 | 17 | 10 | 91 | 1920 | 6 | | | | | | | | | | |
| **105 Total** | | | 854 | | | | | | | | | | | | | |
| 3 | 106 | 1 | 22 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 106 | 2 | 28 | 91 | 1930 | 6 | | | | | | | | | | |
| 3 | 106 | 3 | 89 | 91 | 1979 | 3 | | | | | | | | | | |
| 3 | 106 | 4 | 97 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 106 | 5 | 80 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 106 | 8 | 104 | 91 | 1980 | 3 | | | | | | | | | | |
| 3 | 106 | 9 | 16 | 91 | 1950 | 9 | | | | | | | | | | |
| 3 | 106 | 10 | 56 | 91 | 1950 | 9 | | | | | | | | | | |
| 3 | 106 | 11 | 69 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 106 | 12 | 28 | 91 | 1950 | 9 | | | | | | | | | | |
| 3 | 106 | 13 | 30 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 106 | 14 | 19 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 106 | 15 | 20 | 95 | 1967 | 6 | | | | | | | | | | |
| 3 | 106 | 17 | 57 | 91 | 1981 | 3 | | | | | | | | | | |
| 3 | 106 | 18 | 25 | 91 | 1930 | 9 | | | | | | | | | | |
| 3 | 106 | 19 | 44 | 91 | 1981 | 3 | | | | | | | | | | |
| 3 | 106 | 20 | 37 | 95 | 1967 | 6 | | | | | | | | | | |
| 3 | 106 | 21 | 9 | 85 | 0 | 6 | | | | | | | | | | |
| **106 Total** | | | 830 | | | | | | | | | | | | | |
| 3 | 107 | 1 | 27 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 107 | 2 | 28 | 85 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 3 | 82 | 95 | 1900 | 6 | | | | | | | | | | |
| 3 | 107 | 4 | 41 | 95 | 1952 | 9 | | | | | | | | | | |
| 3 | 107 | 5 | 16 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 6 | 5 | 95 | 1949 | 6 | | | | | | | | | | |
| 3 | 107 | 9 | 26 | 95 | 1900 | 8 | | | | | | | | | | |
| 3 | 107 | 10 | 16 | 85 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 11 | 11 | 91 | 1948 | 6 | | | | | | | | | | |
| 3 | 107 | 21 | 10 | 11 | 1928 | 6 | | | | | | | | | | |
| 3 | 107 | 23 | 50 | 89 | 1828 | 9 | | | | | | | | | | |
| 3 | 107 | 24 | 25 | 11 | 1948 | 6 | | | | | | | | | | |
| 3 | 107 | 25 | 72 | 85 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 29 | 16 | 16 | 1910 | 6 | | | | | | | | | | |
| 3 | 107 | 31 | 103 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 34 | 9 | 81 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 35 | 40 | 85 | 0 | 9 | | | | | | | | | | |

| | | | | | | | Survey Dates (MM/DD/YY) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District | Com-part-ment | Stand | Acres | Forest Type | Year of Origin | Size Density | 1st survey | 2nd survey | 3rd survey | Habitat # | Wormed? (Y/N and list evidence: worms seen, depleted duff, castings, etc.) | *Asclepias* ? (list species, coords, patch size) | Carex pensylvanica lawn? (Y/N and % of stand affected) | Comments (large trees, rock outcrops, fire scars, down wood, slope, enbedded wetlands, etc.) | Plants of Interest (put * if MNFI form completed) | NNIP (put * if reporting form completed) |
| 3 | 107 | 36 | 13 | 91 | 1961 | 9 | | | | | | | | | | |
| 3 | 107 | 37 | 17 | 11 | 1922 | 9 | | | | | | | | | | |
| 3 | 107 | 39 | 1 | 91 | 1961 | 9 | | | | | | | | | | |
| 3 | 107 | 42 | 12 | 91 | 1958 | 6 | | | | | | | | | | |
| 3 | 107 | 48 | 20 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 107 | 51 | 37 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 107 | 52 | 10 | 16 | 1930 | 9 | | | | | | | | | | |
| 3 | 107 | 53 | 7 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 107 | 60 | 7 | 11 | 1953 | 6 | | | | | | | | | | |
| 3 | 107 | 62 | 9 | 91 | 1943 | 6 | | | | | | | | | | |
| 3 | 107 | 66 | 1 | 95 | 1953 | 6 | | | | | | | | | | |
| 3 | 107 | 67 | 5 | 91 | 1951 | 6 | | | | | | | | | | |
| 3 | 107 | 69 | 5 | 85 | 1938 | 2 | | | | | | | | | | |
| 3 | 107 | 72 | 3 | 95 | 1900 | 8 | | | | | | | | | | |
| 3 | 107 | 76 | 43 | 95 | 1923 | 9 | | | | | | | | | | |
| 3 | 107 | 80 | 8 | 5 | 1910 | 8 | | | | | | | | | | |
| **107 Total** | | | 773 | | | | | | | | | | | | | |
| 3 | 108 | 2 | 27 | 91 | 1932 | 9 | | | | | | | | | | |
| 3 | 108 | 3 | 25 | 91 | 1956 | 9 | | | | | | | | | | |
| 3 | 108 | 8 | 12 | 11 | 1898 | 6 | | | | | | | | | | |
| 3 | 108 | 9 | 13 | 91 | 1952 | 6 | | | | | | | | | | |
| 3 | 108 | 10 | 33 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 108 | 11 | 29 | 91 | 1965 | 6 | | | | | | | | | | |
| 3 | 108 | 12 | 25 | 91 | 1941 | 9 | | | | | | | | | | |
| 3 | 108 | 13 | 11 | 91 | 1960 | 6 | | | | | | | | | | |
| 3 | 108 | 14 | 29 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 108 | 15 | 42 | 91 | 1953 | 6 | | | | | | | | | | |
| 3 | 108 | 19 | 107 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 108 | 20 | 9 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 108 | 21 | 54 | 91 | 1970 | 3 | | | | | | | | | | |
| 3 | 108 | 22 | 25 | 91 | 1962 | 6 | | | | | | | | | | |
| 3 | 108 | 24 | 89 | 89 | 0 | 6 | | | | | | | | | | |
| 3 | 108 | 25 | 9 | 91 | 1961 | 6 | | | | | | | | | | |
| 3 | 108 | 29 | 11 | 1 | 1950 | 6 | | | | | | | | | | |
| 3 | 108 | 30 | 15 | 85 | 0 | 6 | | | | | | | | | | |
| 3 | 108 | 31 | 14 | 3 | 1828 | 9 | | | | | | | | | | |
| 3 | 108 | 33 | 109 | 85 | 1890 | 9 | | | | | | | | | | |
| 3 | 108 | 34 | 11 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 108 | 35 | 29 | 5 | 1828 | 9 | | | | | | | | | | |
| 3 | 108 | 36 | 24 | 85 | 1910 | 6 | | | | | | | | | | |
| 3 | 108 | 39 | 32 | 85 | 1948 | 6 | | | | | | | | | | |
| 3 | 108 | 40 | 29 | 16 | 1900 | 8 | | | | | | | | | | |
| 3 | 108 | 41 | 12 | 16 | 1964 | 3 | | | | | | | | | | |
| 3 | 108 | 43 | 16 | 95 | 1961 | 2 | | | | | | | | | | |
| 3 | 108 | 44 | 7 | 11 | 1928 | 5 | | | | | | | | | | |
| 3 | 108 | 48 | 4 | 5 | 1858 | 8 | | | | | | | | | | |
| 3 | 108 | 49 | 4 | 5 | 1828 | 8 | | | | | | | | | | |
| 3 | 108 | 55 | 9 | 95 | 1928 | 5 | | | | | | | | | | |
| 3 | 108 | 59 | 9 | 11 | 1948 | 3 | | | | | | | | | | |
| 3 | 108 | 61 | 10 | 91 | 1928 | 5 | | | | | | | | | | |
| 3 | 108 | 62 | 11 | 91 | 1965 | 6 | | | | | | | | | | |
| 3 | 108 | 64 | 6 | 11 | 1928 | 6 | | | | | | | | | | |
| 3 | 108 | 66 | 25 | 95 | 1920 | 5 | | | | | | | | | | |
| 3 | 108 | 72 | 18 | 85 | 1900 | 9 | | | | | | | | | | |
| 3 | 108 | 73 | 22 | 91 | 1928 | 5 | | | | | | | | | | |
| **108 Total** | | | 967 | | | | | | | | | | | | | |
| 3 | 109 | 1 | 117 | 85 | 1930 | 9 | | | | | | | | | | |
| 3 | 109 | 2 | 18 | 11 | 1954 | 6 | | | | | | | | | | |
| 3 | 109 | 3 | 35 | 89 | 0 | 9 | | | | | | | | | | |

| | | | | | | | Survey Dates (MM/DD/YY) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District | Com-partment | Stand | Acres | Forest Type | Year of Origin | Size Density | 1st survey | 2nd survey | 3rd survey | Habitat # | Wormed? (Y/N and list evidence: worms seen, depleted duff, castings, etc.) | *Asclepias* ? (list species, coords, patch size) | Carex pensylvanica lawn? (Y/N and % of stand affected) | Comments (large trees, rock outcrops, fire scars, down wood, slope, enbedded wetlands, etc.) | Plants of Interest (put * if MNFI form completed) | NNIP (put * if reporting form completed) |
| 3 | 109 | 4 | 76 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 5 | 79 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 6 | 101 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 7 | 68 | 11 | 1960 | 6 | | | | | | | | | | |
| 3 | 109 | 8 | 20 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 9 | 9 | 11 | 1940 | 6 | | | | | | | | | | |
| 3 | 109 | 10 | 33 | 89 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 11 | 52 | 85 | 0 | 9 | | | | | | | | | | |
| 3 | 109 | 13 | 28 | 11 | 1920 | 5 | | | | | | | | | | |
| 3 | 109 | 15 | 2 | 11 | 1940 | 6 | | | | | | | | | | |
| **109 Total** | | | 636 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| **Forest Type Codes** | | | | | | | | | | | | | | | | |
| 1 | Jack pine | | | | | | | | | | | | | | | |
| 2 | Red pine | | | | | | | | | | | | | | | |
| 3 | Eastern white pine | | | | | | | | | | | | | | | |
| 5 | Hemlock | | | | | | | | | | | | | | | |
| 11 | Balsam fir-aspen/paper birch | | | | | | | | | | | | | | | |
| 16 | White spruce-balsam fir | | | | | | | | | | | | | | | |
| 20 | Northern hardwoods-hemlock | | | | | | | | | | | | | | | |
| 55 | Northern red oak | | | | | | | | | | | | | | | |
| 79 | Mixed lowland hardwoods | | | | | | | | | | | | | | | |
| 80 | Sugar maple-northern red oak | | | | | | | | | | | | | | | |
| 81 | Sugar maple-beech/yellow birch | | | | | | | | | | | | | | | |
| 82 | Sugar maple-basswood | | | | | | | | | | | | | | | |
| 84 | Red maple (dry site) | | | | | | | | | | | | | | | |
| 85 | Sugar maple | | | | | | | | | | | | | | | |
| 89 | Mixed upland hardwoods | | | | | | | | | | | | | | | |
| 91 | Quaking aspen | | | | | | | | | | | | | | | |
| 93 | Bigtooth aspen | | | | | | | | | | | | | | | |
| 95 | Aspen-white spruce/balsam fir | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| **Size Density Codes** | | | | | | | | | | | | | | | | |
| 0 | nonstocked (<16% stocked) | | | | | | | | | | | | | | | |
| 1 | seedling/sapling (16-39%) | | | | | | | | | | | | | | | |
| 2 | seedling/sapling (40-69%) | | | | | | | | | | | | | | | |
| 3 | seedling/sapling (>70%) | | | | | | | | | | | | | | | |
| 4 | poletimber (16-39%) | | | | | | | | | | | | | | | |
| 5 | poletimber (40-69%) | | | | | | | | | | | | | | | |
| 6 | poletimber (>70%) | | | | | | | | | | | | | | | |
| 7 | sawtimber (16-39%) | | | | | | | | | | | | | | | |
| 8 | sawtimber (40-69%) | | | | | | | | | | | | | | | |
| 9 | sawtimber (>70%) | | | | | | | | | | | | | | | |