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INTRODUCTION

Purpose of the Database
The primary purpose of this project was to develop for the Forest Preserve District of Will County a scientific Relational Database Management System (RDBMS) to aid efforts to conserve biodiversity and strengthen local government support. It will allow ecological management decisions to be made with a broader range and higher level of easily accessed scientific information of various sorts. The relational database organizes existing information in such a way that the Forest Preserve District can look at that information in new ways that will help them to identify conservation priorities. It will also help them to improve their management of natural communities and thus sustain native biodiversity, and it will enable them to evaluate past, present, and future management practices. The database system provides tools for the correlation and analysis of complex, interrelated data for management and restoration purposes. In addition to containing data that is specific to Will County sites owned and managed by the Forest Preserve District, the database system has basic information on the area’s soils, plants, plant communities, wildlife, and endangered and threatened species.

Prototype Function
This RDBMS will serve as a prototype for a Chicago Wilderness scientific database, so that eventually this type of ecological data can be shared throughout the region. Access, part of the widely distributed Microsoft Office suite, was a logical choice for this prototype, as it is currently the database standard for many, if not most, of the partners in Chicago Wilderness, and it is currently in use in all six of the county forest preserve or conservation districts in the immediate Chicago area.

Scope of the Database
The Will County relational database management system specifically provides the following:

1. a relational database management system for ecological inquiry and analysis
2. a standardized, compatible information storage system for all types of data
3. a tool for quick and easy retrieval of data
4. tools for rapid comparison and analysis of complex ecological and biological relationships
5. a scientifically based tool for site management planning and execution
6. a tool to enable efficient and accurate exchange of information among agencies
7. a tool to direct and coordinate the gathering of basic ecological information on plants, animals, soils, plant communities, restoration techniques, etc.
8. a tool to increase accuracy and reliability in the gathering of ecological and restoration management information, including the state of plant communities
9. standards for information gathering and storage for the future
10. cross-references of existing information of various types

Computer Database Terms and Definitions
A database is a vehicle for storing information (data) about a particular topic or purpose, such as community health, bird-nesting requirements, ecosystem management, or watershed properties. This data is stored in a tabular format (table) consisting of columns and rows grouped according to similarities of data. A computer database management system (DMSA) stores and retrieves information in a database (a single table) on a computer, rather than on paper in a file cabinet where it is less accessible. A rela-
tional database management system (RDBMS) enables quick and easy storage, organization, and analysis of data from many databases that have been linked by user-defined relationships. These relationships are defined through queries, which ask questions or define criteria about the data in a number of related tables (a dynaset). The results of the queries can then be conveniently displayed in a generalized printable form or in a custom report format.

**Uses and Potential**

By means of queries, information in different databases can be compared and analyzed. The impact of burns on insect populations, for example, can be analyzed to determine the ideal management program for a site. If information is desired about a particular species of plant or animal, a customized program can provide the Latin and common names, identifying characteristics, associates, habitat information, a picture or illustration, and sites where it has been positively identified. A link can be made to a map to pinpoint a precise location and provide directions for getting there. Sensitive information, such as endangered species data, is available to those with special passcades.

Accurate entry and revision of material is made easy and reliable through customized data input forms that were developed for this project. These also serve to block duplicate entries, and they trigger an automatic update to all databases linked to the original.

A database management system contains its own unique information, but it can be linked to other such systems if there is a link to common types of information. Separate systems could be maintained independently, for example, by various member organizations of Chicago Wilderness, yet the data in each system could be accessed, if a common link exists, by any other user within a broader integrated constellation of database management systems. Databases (tables) and entire systems can also be readily transferred among cooperating database users through e-mail. Once this is done, the imported data from one user can be related to existing information in another’s database.

**Flexibility and Compatibility**

This system is extremely flexible, as there is virtually no limit to the amount of data that can be stored, or to the number of databases or links that can be created and combined. In practice, of course, all programs are limited by hardware platforms and computer memory. It is the responsibility of any potential users to ensure that their hardware is capable of handling large amounts of information.

Access is fully compatible with other Microsoft programs, such as MSWord and Excel, and with a wide range of other software. Data in Access can be transferred (converted) to and from other database systems and spreadsheet programs. Access 2000 is SQL or web compatible, and it can be used with standard Geographical Information Systems (GIS), so there is full potential for spatial and graphic representation of the data.
The database is grouped by search type and data entry/analysis type.

Main Menu

A. Specific Information Menu
   1. Specific Plant Information
   2. E/T Plant Species List
   3. Specific Wildlife Information
   4. E/T Wildlife Species List
   5. Specific Soil Information
   6. Specific Preserve Information
   7. Community Equivalence Information
   8. Watershed Information
   9. Insect Information
   10. Plant Studies Information

B. Location/Distribution Menu
   1. Burn Histories
   2. Community Locations/Acreages
   3. Soils Locations
   4. Wildlife Locations
   5. Insect Locations
   6. CW Community Locations

C. Update Information Menu
   1. Update Burn Histories
   2. Update Preserve General Flora Information
   3. Update Preserve Information
   4. Update Document Information

D. Add New Information Menu
   1. Add to Preserve Plant List
   2. Add to Preserve Soils List
   3. Add to Document List
   4. Add to INAI Information List
   5. Add to Preserve General List
   6. Add to Wildlife Master List
   7. Add to Preserve Wildlife
   8. Add to Burn Information
   9. Add to Preserve Insect List

E. Documents Information

F. Species Finder/Analyzer
   1. Plant List Analyzer
   2. Plant Species Finder
   3. Preserve Flora Analyzer
As mentioned in the previous section, the database is organized by 1) general search type, 2) data entry type, and 3) analysis type. These general types are options in the Menu Menu window, the first menu you will see upon opening the database. Here is how to navigate through the database.

You opened the database for a reason, right? What do you want to do? Let’s say you want to find some information about a certain preserve. Because you want to search for information about a specific preserve, you will first click on the Specific Information option button in the Main Menu. That will take you to the Specific Information secondary menu, where you will click the Specific Preserve Information option button. This action will take you to the Specific Preserve Information form. Figure 1 illustrates this series of selections.

**Figure 1.** Steps to get to search or data forms

You will notice that many of the menus and forms feature a Help button which opens a Help information window. These will explain options or data fields and can help direct your choices. When opening a form for the first time, it is a good idea to look at the Help window to familiarize yourself with the form's features and options.

Each form has a Return to Main Menu or Close Form button that will close the form window and take you back to the Main Menu. Many forms also have a Help button that provides information about the interactive selection or entry fields.
Figure 2 shows the Main Menu, the first pop-up window you will see upon entering the database. The available selections direct you to the query or data modification options found in the secondary options menus. Click on the Help button (Figure 2a) for an explanation of the options.

**Location/Distribution**
Search for information, such as distributions or preserve lists.

**Add New Information**
Add new data to an existing table.

**Species Finder/Analyzer**
Search for species that match selected criteria or acquire statistical analysis for a list of plants.

Click to exit the database and MSAccess program.

**Specific Information**
Search for information about a specific item, such as a plant, animal, preserve, etc.

**Update Existing Information**
Change previously entered data in an existing table.

**Documents Information**
Search for documents by date, author, preserve, number, or subject.

Click to open window of information on menu options.

Click to view the “guts” of the database (i.e. tables, queries, forms, macros, etc.).

**Shortcut**: Press F11
The menu shown in Figure 3 provides a variety of database searching options for basic information on specific items (i.e. plant, animal, soil, preserve, etc.). Click the Help button to view more information about the available options.

**Figure 3. Specific Information Menu**

- **Specific Plant Information**
  Search for information about an individual plant.

- **Specific Wildlife Information**
  Search for information about an individual wildlife species (i.e. American goldfinch, beaver).

- **Specific Soil Information**
  Search for information about an individual soil type (i.e. Sawmill).

- **Community Equivalence Info**
  Search for plant community equivalents for INAI, TNC, CW, and Will County FPD.

- **E/T Plant Species List**
  Search for the E/T plant species in a specific preserve.

- **E/T Wildlife Species List**
  Search for the E/T wildlife species in a specific preserve.

- **Specific Preserve Information**
  Search for information about an individual preserve (i.e. Braidwood Dunes, Lockport Prairie).

- **Watershed Information**
  Search for information about an individual watershed (i.e. Des Plaines).

- **Insect Information**
  Search for information on insects and other invertebrates found in preserves.

- **Plant Studies Information**
  Information on specific plant species studies conducted in preserves.

- **E/T Plant Species List**
  Search for the E/T plant species in a specific preserve.

- **E/T Wildlife Species List**
  Search for the E/T wildlife species in a specific preserve.

Click to open window of information on menu options.
To search for information on a specific plant species, select the desired species from one of the four available drop-down lists (Plant Species, Common Name, Acronym, or Synonym) and click the Retrieve Plant Information button (Figure A1a). Details about the species are reported in the field on the right side of the form (Figure A1b). Click the Print Report to print a report of the search results.

Figure 4. Drop-down selection fields for Plant Information

Select a Plant Species
Select a plant species by its scientific or Latin name (i.e. Acer negundo).

Select a Common Name
Select a plant species by its common name (i.e., box elder).

Select an ACRONYM
Select a plant species by its acronym (i.e. ACENEG), based on the genus and specific epithet.

Select a Synonym
Select a plant species by its former scientific name (i.e. Viola papilionacea now V. sororia).

Click to retrieve information about the selected species.

Click to clear any selections.

Click to get more information about selecting from the drop-down menus.

Figure 5. Search results for Plant Information

S/W (Swink & Wilhelm's) 4th Ed[ition] #1: Primary scientific or Latin name from Plants of the Chicago Region, 4th edition.

S/W 3rd Ed. #1: Primary scientific or Latin name from Plants of the Chicago Region, 3rd edition.

Mohlenbrock1: Primary scientific name from Mohlenbrock's Guide to the Vascular Flora of Illinois.

Common Name: Primary common name from Plants of the Chicago Region, 4th edition.

Family: Name of family to which plant species belongs.

Native?: Native or adventive.

Perennial?: Annual, biennial, or perennial.

“C” Value: Conservatism value as provided in Plants of the Chicago Region, 4th edition.

Endangered or Threatened: Status if state or federally listed.

FPD Areas Found: Number of preserves in which species is found.

Alternative(s) #1 and #2: Alternative common names from Plants of the Chicago Region, 4th edition and other sources.

Wetness Type: Army Corps of Engineers' wetness classification. Click Help button to view descriptions of all wetness types.

Acronym: Plant species' six-letter acronym.

Click to go directly to the Plant Distribution form.
To search for information on a specific wildlife species, select the desired species from one of the two available drop-down lists (Wildlife Species or Common Name) (Figure A2a). Click on the Preview Report button to view a report of the search results (Figure A2b).

**Figure A2a.** Drop-down selection field for E/T Plant Species List

**Figure A2b.** Example of species list printout

### E/T Plant Species List

<table>
<thead>
<tr>
<th>Plant species</th>
<th>Endangered</th>
<th>Threatened</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calopogon tuberosus</td>
<td>State</td>
<td></td>
<td>001</td>
</tr>
<tr>
<td>Calopogon tuberosus</td>
<td>State</td>
<td></td>
<td>004</td>
</tr>
<tr>
<td>Calopogon tuberosus</td>
<td>State</td>
<td></td>
<td>003</td>
</tr>
<tr>
<td>Calopogon tuberosus</td>
<td>State</td>
<td></td>
<td>010</td>
</tr>
<tr>
<td>Calopogon tuberosus</td>
<td>State</td>
<td></td>
<td>048</td>
</tr>
<tr>
<td>Drosera intermedia</td>
<td>State</td>
<td></td>
<td>001</td>
</tr>
<tr>
<td>Drosera intermedia</td>
<td>State</td>
<td></td>
<td>003</td>
</tr>
<tr>
<td>Drosera intermedia</td>
<td>State</td>
<td></td>
<td>004</td>
</tr>
<tr>
<td>Drosera intermedia</td>
<td>State</td>
<td></td>
<td>040</td>
</tr>
<tr>
<td>Drosera intermedia</td>
<td>State</td>
<td></td>
<td>010</td>
</tr>
<tr>
<td>Filipendula rubra</td>
<td>State</td>
<td></td>
<td>010</td>
</tr>
<tr>
<td>Trifolium glutinosum</td>
<td>State</td>
<td></td>
<td>001</td>
</tr>
<tr>
<td>Trifolium glutinosum</td>
<td>State</td>
<td></td>
<td>004</td>
</tr>
<tr>
<td>Trifolium glutinosum</td>
<td>State</td>
<td></td>
<td>010</td>
</tr>
<tr>
<td>Trifolium glutinosum</td>
<td>State</td>
<td></td>
<td>003</td>
</tr>
<tr>
<td>Vaccinium macrocarpon</td>
<td>State</td>
<td></td>
<td>048</td>
</tr>
<tr>
<td>Vaccinium macrocarpon</td>
<td>State</td>
<td></td>
<td>010</td>
</tr>
</tbody>
</table>
A.3. Specific Wildlife Information

To search for information on a specific wildlife species, select the desired species from one of the two available drop-down lists (Wildlife Species or Common Name) (Figure A3). Details about the species will automatically appear in the fields below. Click on the Print Report button to print a report of the search results.

**Select Wildlife Species**
Select a wildlife species by its scientific or Latin name (i.e., Accipiter cooperii).

**Wildlife Type:** Type of species (i.e., bird, mammal, reptile).

**Wildlife Species:** Scientific or Latin name of wildlife species.

**Endangered or Threatened:** Status if State or Federally listed.

**Preferred Habitat:** Primary habitat in which wildlife species occurs.

**Select Common Name**
Select a wildlife species by its common name (i.e., Cooper's Hawk).

**Family:** Family to which wildlife species belongs.

**Common Name:** Common or English name.

**Number of Locations:** Number of preserves in which species is found.

**Secondary Habitat:** Secondary habitat in which wildlife species occurs.

Click on the Check Fauna Locations to go directly to the Fauna Location form.

Click to clear the drop-down selections.
To search for the list of endangered and/or threatened species in a preserve, select the desired preserve acronym from the drop-down list (Figure A4a). Click on the Preview Report button to view a report of the search results (Figure A4b).

**Figure A4a.** Drop-down selection field for E/T Wildlife Species List

**Figure A4b.** Example of wildlife species list printout

### E/T Wildlife Species List

**Braidwood Dunes and Savanna**

<table>
<thead>
<tr>
<th>Wildlife species</th>
<th>Type</th>
<th>Subtype</th>
<th>Endangered/Threatened</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammodramus herodovii</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>001</td>
</tr>
<tr>
<td>Acio flavinoides</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>001</td>
</tr>
<tr>
<td>Circus cyaneus</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>010</td>
</tr>
<tr>
<td>Circus cyaneus</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>001</td>
</tr>
<tr>
<td>Emydoidea blandingii</td>
<td>Reptile</td>
<td></td>
<td>State Threatened</td>
<td>152</td>
</tr>
<tr>
<td>Laterallus amnicensis</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>009</td>
</tr>
<tr>
<td>Laterallus amnicensis</td>
<td>Bird</td>
<td></td>
<td>State Endangered</td>
<td>001</td>
</tr>
<tr>
<td>Sistrurus catenatus</td>
<td>Reptile</td>
<td></td>
<td>State Endangered</td>
<td>001</td>
</tr>
</tbody>
</table>
To search for information on a specific soil type, select the desired soil from the drop-down list (Figure A5a). Details about the soil will automatically appear in the fields below (Figure A5b). Click on the Print Report button to print a report of the search results.

**Figure A5a.** Drop-down selection field for Soil Information

**Figure A5b.** Search results for Soil Information

- **Soil Name:** Common name for soil type.
- **Soil Type:** Numerical code for soil type.
- **Wetland?:** Is this a wetland soil?
- **Community Type:** Plant community in which soil primarily occurs.
- **Taxonomic Class:** General soil classification.
- **Number of Locations:** Number of preserves in which soil occurs.

Click to go directly to Soil Locations form to check distribution.
To search for information on a specific preserve, select the desired Area ID from drop-down lists (Figure A6a). Details about the preserve will automatically appear in the fields below. To access other information about the preserve, such as flora, fauna, or insect species occurrences, click on one of the labeled tabs that run along the top of the form (Figures A6b,c,d,e,f). Each tab lists the name of the selected preserve at the top of the form and has a Close Form button at the bottom of the form that will take you back to the Main Menu. Click on the Print Report button located on the Preserve Info form to print a report of search results.

**Figure A6a.** Drop-down selection field for specific preserve and preserve search results for Preserve Info

- **Area ID:** Select a preserve by its Area ID or acronym.
- **Preserve Name:** Full (official) name of preserve.
- **Management Units:** Number of management units in preserve.
- **Township:** Township in which preserve occurs.
- **Sector:** Sector in which preserve occurs.

**Figure A6b.** Flora General search results

- **# Plant Communities:** Number of plant communities occurring in preserve.
- **Total CC:** Total (native and adventive) mean coefficient of conservatism.
- **Total # Species:** Total number of native and adventive species occurring in preserve.
- **E/T:** Number of endangered and/or threatened plant species.
- **Total FQI:** Total (native and adventive) flora quality index.
- **Total Wetness:** Total (native and adventive) mean coefficient of wetness.
- **Inventory Year:** Last year preserve was inventoried.

**Native CC:** Mean native coefficient of conservatism.

**Total CC:** Total (native and adventive) mean coefficient of conservatism.

**# Native Species:** Total number of native species.

**% Conservatism:** Percent of native species with coefficients of conservatism of 4 or greater.

**Native FQI:** Native floristic quality index.

**Native Wetness:** Total (native and adventive) mean coefficient of wetness.

**Wetness Category:** Army Corp of Engineer’s wetness category.
**A. 6. SPECIFIC PRESERVE INFORMATION - continued**

**Figure A6a.** Fauna Info: Number of species in each faunal type occurring in selected preserve.

<table>
<thead>
<tr>
<th>Mammals:</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amphibians:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reptiles:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Endangered:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Threatened:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Endangered:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Threatened:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Figure A6b.** Non-Vascular: Number of species in each non-vascular plant type occurring in selected preserve.

| Number of Fungi: |  |
| Number of Mosses: |  |
| Number of Lichens: |  |

**Figure A6c.** Fauna Info: Number of species in each faunal type occurring in selected preserve.

| Number of Invertebrates: |  |

**Figure A6d.** Flora Specific: Specific flora statistics, organized by native and adventive, for selected preserve.

<table>
<thead>
<tr>
<th>% Native:</th>
<th>% Adventive:</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Tree:</td>
<td>% Tree:</td>
</tr>
<tr>
<td>% Shrub:</td>
<td>% Shrub:</td>
</tr>
<tr>
<td>% Woody Vine:</td>
<td>% Woody Vine:</td>
</tr>
<tr>
<td>% Herb. Vine:</td>
<td>% Herb. Vine:</td>
</tr>
<tr>
<td>% Per. Forb:</td>
<td>% Per. Forb:</td>
</tr>
<tr>
<td>% Biennial Forb:</td>
<td>% Biennial Forb:</td>
</tr>
<tr>
<td>% Ann. Forb:</td>
<td>% Ann. Forb:</td>
</tr>
<tr>
<td>% Per. Grass:</td>
<td>% Per. Grass:</td>
</tr>
<tr>
<td>% Ann. Grass:</td>
<td>% Ann. Grass:</td>
</tr>
<tr>
<td>% Per. Sedge:</td>
<td>% Per. Sedge:</td>
</tr>
<tr>
<td>% Ann. Sedge:</td>
<td>% Ann. Sedge:</td>
</tr>
<tr>
<td>% Cryptogam:</td>
<td>% Cryptogam:</td>
</tr>
</tbody>
</table>

- % Native: Percentage of all preserve plant species that are native
- % Adventive: Percentage of all preserve plant species that are adventive
  - % Tree: Trees
  - % Shrub: Shrubs
  - % Woody Vine: Woody vines
  - % Herb. Vine: Herbaceous vines
  - % Per. Forb: Perennial forbs
  - % Biennial Forb: Biennial forbs
  - % Ann. Forb: Annual forbs
  - % Per. Grass: Perennial grasses
  - % Ann. Grass: Annual grasses
  - % Per. Sedge: Perennial sedges
  - % Ann. Sedge: Annual sedges
  - % Cryptogam: Cryptogams (i.e., ferns)
A. 7. COMMUNITY EQUIVALENTS

To search for information on community equivalents, select the desired community type from one of the four available drop-down lists (Will [County], CW [Chicago Wilderness], INAI [Illinois Natural Areas Inventory], or TNC [The Nature Conservancy]) (Figure A7a). Equivalent community types will automatically appear in the results fields (Figure A7b). Click on the Print Report button to print a report of the search results.

**Figure A7a.** Drop-down selection fields for Community Equivalents Information.

- **Select Will Community Type**
  - Select a plant community designated by Will County FPD

- **Select CW Community Type**
  - Select a plant community designated by Chicago Wilderness

- **Select INAI Community Type**
  - Select a plant community designated by Illinois Natural Areas Inventory

- **Select TNC Community Type**
  - Select a plant community designated by The Nature Conservancy

**Figure A7b.** Search results for Community Equivalents Information.

- **Will Community Subtype:** Will County plant community subtype.
- **CW Equivalent #1-3:** Chicago Wilderness community equivalent(s), where applicable.
- **INAI Equivalent #1-4:** Illinois Natural Areas Inventory community equivalent(s), where applicable.
- **TNC Equivalent:** The Nature Conservancy community equivalent, where applicable.
- **TNC G-Rank:** The Nature Conservancy global rank.
- **Check Community Locations:** Click to go directly to Community Locations form to check community distribution.
- **Print Report:** Click to clear drop-down list.
- **Clear Fields:**
To search for information on a specific watershed, select the watershed from the drop-down list (Figure A8a). Details about the watershed will automatically appear in the results fields (Figure A8b). Click on the Print Report button to print a report of the search results.

Figure A8a. Drop-down selection field for Watershed Information

Select Watershed Name
Select or type in a watershed name (i.e., Des Plaines).

Figure A8b. Search results for Watershed Information

Watershed Name: Name of selected watershed.

Area Acronym: Preserve's Area Acronym.

Number of Preserves: Number of preserves within watershed.

Total Acreage in Preserves: Total number of acres in preserves within watershed.

Number of Plant Species, Mammals, etc.: Total number of certain type of species occurring within watershed.

Total Lake Acreage: Total acreage of lake communities within watershed.

Number of Lakes: Number of lakes within watershed.

Total Acreage of Lakes: Total acreage of ponds within watershed.

Number of Permanent Streams: Total number of permanent (not ephemeral or intermittent) streams within watershed.

Total Stream Length: Total feet of stream within watershed.
A. 9. Insect Information

To search for information on a specific insect species, select the species' scientific name from the drop-down list (Figure A9a). Details about the species will automatically appear in the results fields (Figure A9b). Click on the Print Report button to print a report of the search results.

**Figure A9a.** Drop-down selection field for Insect Information.

*Select an Insect Species:*

**Select an Insect Species**
Select an insect genus or species by its scientific or Latin name (i.e., *Ablabesmyia spp.*)

**Figure A9b.** Search results for Insect Information.

<table>
<thead>
<tr>
<th>Insect Species:</th>
<th>Scientific or Latin name of selected insect species.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name:</td>
<td>Common or English name.</td>
</tr>
<tr>
<td>Insect Type:</td>
<td>General group to which species belongs (i.e. moths, skippers).</td>
</tr>
<tr>
<td>Family:</td>
<td>Family to which species belongs.</td>
</tr>
<tr>
<td>Group Common Name:</td>
<td>Family group to which species belongs (i.e. Moths, Skippers).</td>
</tr>
<tr>
<td>Relative Rarity:</td>
<td>Numerical rating for how rare species is in Will County.</td>
</tr>
<tr>
<td>Number of Preserves:</td>
<td>Number of preserves in which species is found.</td>
</tr>
</tbody>
</table>

Click to go directly to Insect Locations form for distribution of a particular species.
To search for information on plant studies, select the desired criteria from one to all of the available drop-down lists (Study Area, Native or Adventive, Conservatism #, Wetness Category) (Figure A10a). Click on the Preview Full Report button to view and/or print a detailed report of the search results (Figure A10b). Click on the Preview Summary Report button to view and/or print a summary of the search results (Figure A10c).

**Figure A10a.** Drop-down selection fields for Plant Studies Information

**Figure A10b.** Example of Full Report printout

**Figure A10c.** Example of Summary Report printout
The menu shown in Figure B provides a variety of database searching options. Click the Help button to view more information about the available options. Species or item distributions or species lists at selected location(s). Usually more than one parameter can be selected to narrow results.
To search for information on burn histories, select the desired criteria from those available in the drop-down lists (Area, Year, and/or Month) (Figure B1a). Multiple selections may be made to narrow search parameters. Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B1b).

Figure B1a. Drop-down selection fields for Burn Histories

<table>
<thead>
<tr>
<th>Enter Fire Management Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Select an Area:</strong> BCU</td>
</tr>
<tr>
<td><strong>Select or Enter Year:</strong></td>
</tr>
<tr>
<td><strong>Select a Month:</strong> April</td>
</tr>
</tbody>
</table>

Select an Area
Select preserve/area burned.

Select or Enter Year
Select or enter year of burn.

Select a Month
Select month during which burn occurred.

Click to clear any selections.

Figure B1b. Example of report printout

### Prescribed Burn Information

<table>
<thead>
<tr>
<th>Braidwood D</th>
<th>BCU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acreage</strong></td>
<td><strong>Burn Type</strong></td>
</tr>
<tr>
<td>152.00</td>
<td>Prescribed</td>
</tr>
<tr>
<td>152.00</td>
<td>Prescribed</td>
</tr>
<tr>
<td>152.00</td>
<td>Wildfire</td>
</tr>
<tr>
<td>152.00</td>
<td>Prescribed</td>
</tr>
<tr>
<td>152.00</td>
<td>Prescribed</td>
</tr>
</tbody>
</table>

| **Sum** | 760.00 | **525.92** |

To search for information on community locations and acreages, select the desired criteria from those available in the drop-down lists (Area[s], Community Type[s], and/or INAI Rating) (Figure B2a). Multiple selections may be made to either expand or limit the search parameters. Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B2b). Click on the Help button to view more information about the use of this form.

**Figure B2a.** Drop-down selection fields for Community Locations/Acreages

<table>
<thead>
<tr>
<th>Select an Area Acronym</th>
<th>Select a Second Area</th>
<th>Select a Third Area</th>
<th>Select an Area Acronym: BDS</th>
<th>Select a Second Area: None</th>
<th>Select a Third Area: None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select a Community Type</td>
<td>Select a Second Community</td>
<td>Select a Third Community</td>
<td>Select a Community Type: Dry-mesic Savanna</td>
<td>Select a Second Community:</td>
<td>Select a Third Community:</td>
</tr>
<tr>
<td>Select a Third Community</td>
<td>Select an INAI Rating</td>
<td>Select an INAI Rating:</td>
<td>Select an INAI Rating (i.e., A, B, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Preview Report</strong></td>
<td><strong>Help</strong></td>
<td><strong>Clear Fields</strong></td>
<td>Click to preview report of search results.</td>
<td></td>
<td>Click to clear drop-down list.</td>
</tr>
</tbody>
</table>

**Figure B2b.** Example of report printout

**Chicago Wilderness Community Locations**

**CW Community Type:**

**Category:** Wetland Communities

**Subcategory:** Fen

<table>
<thead>
<tr>
<th>County</th>
<th>Community Name</th>
<th>Site Name</th>
<th>Size</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will</td>
<td>graminoid fen</td>
<td>Romeoville Prairie Nature Preser</td>
<td>1</td>
<td>B</td>
</tr>
</tbody>
</table>

**Category:** Wetland Community

**Subcategory:** Fen

<table>
<thead>
<tr>
<th>County</th>
<th>Community Name</th>
<th>Site Name</th>
<th>Size</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will</td>
<td>graminoid fen</td>
<td>Romeoville Prairie Nature Preser</td>
<td>1</td>
<td>C</td>
</tr>
</tbody>
</table>
To search for information on soil type locations and acreages, select the desired criteria from those available in the drop-down lists (Soil Type, Area, Wetland?, Community Type, and/or Slope) (Figure B3a). Multiple selections may be made to narrow search parameters. Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B3b). Click on the Help button to view more information about the use of this form.

![Figure B3a. Drop-down selection fields for Soils Locations](image)

**Select a Soil Type**
Select soil type by name (i.e., Sawmill).

**Wetland? Enter Yes or No**
Select whether or not you wish to view wetland soil (blank will render both).

**Select Slope Code/Percent**
Select NRCS (Natural Resources Conservation Service) slope code.

**Select an Area Acronym**
Select preserve/area acronym.

**Select a Community Type**
Select plant community type.

**Click to preview report of search results.**

**Click to clear drop-down list.**

**Click to view slope code equivalents.**

**Figure B3b. Example of report print-out of forest soils with an NRCS slope code of “B”.

### Soil Distributions

<table>
<thead>
<tr>
<th>Area</th>
<th>Area Name</th>
<th>Soil Name</th>
<th>Community Type</th>
<th>Soil Type</th>
<th>Slope</th>
<th>Wetland</th>
<th>Taxonomic Class</th>
<th>Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERA</td>
<td>Black Road Access</td>
<td>Rodman</td>
<td>Forest</td>
<td>313</td>
<td>B</td>
<td>No</td>
<td>Loam</td>
<td>93</td>
</tr>
<tr>
<td>MWP</td>
<td>McKinley Woods Preserve</td>
<td>Rodman</td>
<td>Forest</td>
<td>313</td>
<td>B</td>
<td>No</td>
<td>Loam</td>
<td>49</td>
</tr>
</tbody>
</table>
To search for information on wildlife locations, select the desired criteria from up to all of the following drop-down lists: Area, Wildlife Type, and Habitat Type) and one of the following two drop-down lists: Wildlife Species or Common Name (Figure B4a). (Multiple parameters may be selected unless otherwise noted by “OR”). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B4b). Click on the Help button to view more information about the use of this form.
To search for information on insect locations, select the desired criteria from up to all of the following drop-down lists: Area, Insect Type, Insect Species, and Insect Family) (Figure B5a). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B5b). Click on the Help button to view more information about the use of this form.

**Insect Information**

**Insect Species**  *Amblyscirtes vialis*

<table>
<thead>
<tr>
<th>Type</th>
<th>Family</th>
<th>Common Name</th>
<th>Document Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Hesperiidae</td>
<td>Roadside skipper</td>
<td>2</td>
</tr>
<tr>
<td>S</td>
<td>Hesperiidae</td>
<td>Roadside skipper</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Hesperiidae</td>
<td>Roadside skipper</td>
<td></td>
</tr>
</tbody>
</table>

**Insect Species**  *Ancyloxypha numitor*

<table>
<thead>
<tr>
<th>Type</th>
<th>Family</th>
<th>Common Name</th>
<th>Document Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Hesperiidae</td>
<td>Least Skipper</td>
<td>7</td>
</tr>
</tbody>
</table>

---

23
B. 6. CW COMMUNITY LOCATIONS

To search for information on community locations and acreages, select the desired criteria from one to all of the available drop-down lists (CW Community Type, CW County, and INAI Quality Rating) (Figure B6a). Multiple parameters may be selected to narrow search results. Click on the Preview Report button to view and/or print a detailed report of the search results (Figure B6b).

![Figure B6a. Drop-down selection fields for CW Community Locations.](Image)

**Select a CW Community Type**
Select a Chicago Wilderness plant community type.

**Select an INAI Quality Rating**
Select INAI rating (i.e., A, B, etc.).

Click to preview report of search results.

Click to clear drop-down list.

**Select a CW County**
Select a Chicago Wilderness county.

**Figure B6b. Example of report printout**

### Chicago Wilderness Community Locations

#### CW Community Type: Graminoid Fen

<table>
<thead>
<tr>
<th>Category: Wetland Communities</th>
<th>Subcategory: Fen</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>County</strong></td>
<td><strong>Community Name</strong></td>
</tr>
<tr>
<td>Will</td>
<td>gaminoid fen</td>
</tr>
</tbody>
</table>

#### Category: Wetland Community

| **County** | **Community Name** | **Site Name** | **Size** | **Quality** |
|Will | gaminoid fen | Romeoville Prairie Nature Preser | 1 | C |
The menu shown in Figure C provides a variety of options for updating tables of existing data.
C. 1. UPDATE BURN HISTORIES

To update burn data, select an Area or Year from the drop-down list (Figure C1). Make the necessary changes to the data displayed, and click on the Save Changes button to save your updates.

Figure C1. Drop-down selection fields for Update Burn Histories

Enter an Area/Year:
- Select preserve/area acronym or year.

Enter an Area/Year: [Dropdown]

Then update information below as necessary:

Area Info:
- Enter comments on the burn.

Acreage:
- Enter total acreage.

Day:
- Enter day (of the month).

Year:
- Enter year (in "YYYY" format, i.e., 1995).

Portion:
- Portion (acreage) of the area actually burned.

Burn Type:
- Type of burn conducted (defaults to prescribed).

Month:
- Enter month in numeric format (i.e., 1, 12).

% Burned:
- Enter percent of area burned.

Document Number:
- Number assigned to document.

Click to save your changes.
To update preserve general flora information, select a Preserve Acronym from the drop-down list (Figure C2a). The data in the fields below will be displayed. Make the necessary changes to the data, and click on the Save Changes button to save your updates (Figure C2b,c).

**Figure C2a.** Drop-down selection field for Update Preserve General Flora Information.

```
| Enter an Area Acronym: | Then alter the information below as needed: |
```

**Figure C2b.** Entry fields for Update Preserve General Flora Information.

<table>
<thead>
<tr>
<th>Year: Year of flora inventory</th>
<th>Total CC: Total (native and adventive) mean coefficient of conservatism.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year: 1996</td>
<td>Mean CC: Mean native coefficient of conservatism.</td>
</tr>
<tr>
<td>Mean CC: 3.68</td>
<td>Total CC: 2.32</td>
</tr>
<tr>
<td>Total Species: 219</td>
<td>Total E/T: 0</td>
</tr>
<tr>
<td>Total Native Spp: 296</td>
<td>Special Concern:</td>
</tr>
<tr>
<td>Conservatism: 0.55</td>
<td>Native FQI: Native floristic quality index.</td>
</tr>
<tr>
<td>Native FQI: 54.60</td>
<td>Total FQI: 46.96</td>
</tr>
<tr>
<td>Total Wetness: -1.20</td>
<td>Native Wetness: Native mean coefficient of wetness.</td>
</tr>
<tr>
<td>Total Wetness: -0.10</td>
<td>Wet. Category: Army Corp of Engineer’s wetness category.</td>
</tr>
</tbody>
</table>

Click to save your changes.
### C. 2. UPDATE PRESERVE GENERAL FLORA INFORMATION - continued

**Figure C2c.** Entry fields for Update Preserve General Flora Information.

#### Natives

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Native</td>
<td>73.90%</td>
<td>Percentage of all preserve plant species that are native</td>
</tr>
<tr>
<td>% Trees</td>
<td>54.00%</td>
<td>Trees</td>
</tr>
<tr>
<td>% Shrubs</td>
<td>4.40%</td>
<td>Shrubs</td>
</tr>
<tr>
<td>% Woody Vines</td>
<td>1.40%</td>
<td>Woody vines</td>
</tr>
<tr>
<td>% Herb. Vines</td>
<td>1.00%</td>
<td>Herbaceous vines</td>
</tr>
<tr>
<td>% Per. Forbs</td>
<td>37.60%</td>
<td>Perennial forbs</td>
</tr>
<tr>
<td>% Bien. Forbs</td>
<td>2.40%</td>
<td>Biennial forbs</td>
</tr>
<tr>
<td>% Annual Forbs</td>
<td>9.50%</td>
<td>Annual forbs</td>
</tr>
<tr>
<td>% Per. Grass</td>
<td>4.70%</td>
<td>Perennial grasses</td>
</tr>
<tr>
<td>% Annual Grass</td>
<td>1.40%</td>
<td>Annual grasses</td>
</tr>
<tr>
<td>% Per. Sedge</td>
<td>5.10%</td>
<td>Perennial sedges</td>
</tr>
<tr>
<td>% Annual Sedge</td>
<td>0.70%</td>
<td>Annual sedges</td>
</tr>
<tr>
<td>% Cryptogam</td>
<td>0.30%</td>
<td>Cryptogams (i.e., ferns)</td>
</tr>
<tr>
<td>Number of Fungi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Lichens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Mosses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Adventives

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Adventive</td>
<td>26.10%</td>
<td>Percentage of all preserve plant species that are adventive</td>
</tr>
<tr>
<td>% Trees</td>
<td>1.70%</td>
<td>Trees</td>
</tr>
<tr>
<td>% Shrubs</td>
<td>2.40%</td>
<td>Shrubs</td>
</tr>
<tr>
<td>% Woody Vines</td>
<td>0.30%</td>
<td>Woody vines</td>
</tr>
<tr>
<td>% Herb. Vines</td>
<td>0.00%</td>
<td>Herbaceous vines</td>
</tr>
<tr>
<td>% Per. Forbs</td>
<td>7.40%</td>
<td>Perennial forbs</td>
</tr>
<tr>
<td>% Bien. Forbs</td>
<td>4.70%</td>
<td>Biennial forbs</td>
</tr>
<tr>
<td>% Annual Forbs</td>
<td>4.70%</td>
<td>Annual forbs</td>
</tr>
<tr>
<td>% Per. Grass</td>
<td>3.40%</td>
<td>Perennial grasses</td>
</tr>
<tr>
<td>% Annual Grass</td>
<td>1.40%</td>
<td>Annual grasses</td>
</tr>
<tr>
<td>% Per. Sedge</td>
<td>0.00%</td>
<td>Perennial sedges</td>
</tr>
<tr>
<td>% Annual Sedge</td>
<td>0.00%</td>
<td>Annual sedges</td>
</tr>
</tbody>
</table>
C. 3. UPDATE PRESERVE INFORMATION

To update preserve information, select a Preserve Acronym from the drop-down list (Figure C3). The data in the fields in the below will automatically update. Make the necessary changes to data, and click on the Save Changes button to save your updates.
To update document information, select a Document Number from the drop-down list. Make the necessary changes to the data displayed, and click on the Save Changes button to save your updates.

**Figure C4.** Drop-down selection and entry fields for Update Document Information

- **Enter a Document Number:** Select number assigned to document.
- **Enter a New Document Number:** Update document number, if necessary.
- **Enter a Revised Document Name:** Update document name.
- **Enter Another Year:** Update year, if necessary.
- **Enter a New File Location:** Update file location.

Click to save your changes.
This menu displays options for adding information to existing data tables (i.e. new plants found in a preserve) (Figure D).

**Figure D.** Select table to add new records.

- **Add to Preserve Plant List:** Add new record(s) to preserve/area plant species records.
- **Add to Document List:** Add new record(s) to document records.
- **Add to Preserve General List:** Add new record(s) to preserve/area general information records.
- **Add to Preserve Wildlife:** Add new record(s) to preserve/area wildlife records.
- **Add to Preserve Insect List:** Add new record(s) to preserve/area insect records.
- **Add to Preserve Soils List:** Add new record(s) to preserve/area soils records.
- **Add to INAI Info List:** Add new record(s) to INAI information records.
- **Add to Wildlife Master List:** Add new record(s) to wildlife species master list.
- **Add to Burn Info List:** Add new record(s) to burn information records.
To add a new species to a preserve's plant list, enter the preserve/area's acronym and the appropriate document number in the entry fields and select the new plant species from the drop-down list (Figure D1). Click on the Add New Record button to save your update. To add additional new records, repeat the above steps for each record.

**Figure D1.** Entry fields for Add to Preserve Plant List

- **Enter the Area Acronym:** Enter preserve/area acronym.
- **Enter Document Number:** Enter new document number.
- **Enter Plant Species:** Select plant species from drop-down menu.

Click to add the new data to the table.
D. 2. ADD TO PRESERVE SOILS LIST

To add a new soil to a preserve’s soils list, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D2).

**Figure D2.** Entry fields for Add to Preserve Soils List

- **Enter the Area Acronym:** Enter preserve/area acronym.
- **Enter a Document Number:** Enter the document number from which the information was derived.
- **Enter the Soil Type:** Enter the NRCS soil type code (i.e., 23).
- **Enter the Soil Type:** Enter the NRCS soil erosion code (i.e., 2 or 3).
- **Enter the Slope Code:** Enter the NRCS soil slope (i.e., D or F).
- **Enter the Erosion Code:** Enter the NRCS soil erosion code (i.e., 2 or 3).

Click to add the new data.
To add a new document to the documents list, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D3).

**Figure D3.** Entry fields for Add to Documents List

- **Enter a Document Number:** Enter the number assigned to new document.
- **Enter the Document Name:** Enter the new document’s title/name.
- **Enter a Year:** Enter the year the document was published.
- **Enter the File Location:** Enter the location where the file is stored.

Click to add the new data.
To add new information to the INAI information list, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D4).

**Figure D4.** Entry fields for INAI Information List

- **Enter an Area Acronym:** Enter preserve/area acronym.
- **Enter the Acreage:** Enter the site’s total acreage.
- **Enter the INAI Rating:** Enter INAI rating (i.e., A, B, etc.).
- **Enter a Will County Community Code:** Enter a plant community code designated by Will Co. FPD.
- **Click to add the new data**
To add a new preserve to the preserve general list, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D5).

### Figure D5. Entry fields for Preserve General List

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter a Preserve Name</td>
<td>Enter preserve/area name.</td>
</tr>
<tr>
<td>Enter a Preserve Size</td>
<td>Enter acreage of preserve/area.</td>
</tr>
<tr>
<td>Enter a Township</td>
<td>Enter township.</td>
</tr>
<tr>
<td>Enter a City</td>
<td>Enter city.</td>
</tr>
<tr>
<td>Enter a Watershed Name</td>
<td>Enter name of watershed.</td>
</tr>
<tr>
<td>Enter a Sector</td>
<td>Enter sector in which area resides.</td>
</tr>
<tr>
<td>Enter a Division</td>
<td>Enter division.</td>
</tr>
<tr>
<td>Enter a New Area Acronym</td>
<td>Enter three-letter preserve/area acronym.</td>
</tr>
<tr>
<td>Enter # Lakes</td>
<td>Enter number of lakes in preserve/area.</td>
</tr>
<tr>
<td>Enter Total Lake Acreage</td>
<td>Enter total acreage of lake(s).</td>
</tr>
<tr>
<td>Enter # Ponds</td>
<td>Enter number of ponds.</td>
</tr>
<tr>
<td>Enter # Permanent Streams</td>
<td>Enter number of permanent (nonephemeral) streams.</td>
</tr>
<tr>
<td>Enter Total Stream Length</td>
<td>Enter total linear feet of stream(s).</td>
</tr>
<tr>
<td>Enter Total Trails Length</td>
<td>Enter total linear feet of trail.</td>
</tr>
<tr>
<td>Enter Grass Trails Length</td>
<td>Enter total linear feet of grass trail.</td>
</tr>
<tr>
<td>Enter Screenings Trails Length</td>
<td>Enter total linear feet of screenings trail.</td>
</tr>
<tr>
<td>Enter Asphalt Trails Length</td>
<td>Enter total linear feet of asphalt trail.</td>
</tr>
</tbody>
</table>

Click to add the new data.
To add a new species to the wildlife master list, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D6). To add multiple records (a list), repeat the above steps for each record.

**Figure D6. Entry fields for Add to Wildlife Master List**

- **Enter a Wildlife Species:** Enter a wildlife species’ scientific or Latin name (i.e., Accipiter cooperii).
- **Wildlife Type:** Type of species (i.e. bird, mammal, reptile).
- **Secondary Habitat:** Secondary habitat in which wildlife species occurs.
- **Enter a Wildlife Species:** Enter a wildlife species' scientific or Latin name (i.e., Accipiter cooperii).
- **Preferred Habitat:** Primary habitat in which wildlife species occurs.
- **Secondary Habitat:** Secondary habitat in which wildlife species occurs.
- **Tertiary Habitat:** Tertiary habitat in which wildlife species occurs.
- **Wildlife Family:** Family to which wildlife species belongs.
- **Enter a Wildlife Family:** Enter a wildlife family.
- **Enter a Common Name:** Enter a common or English name.
- **Enter a Wildlife Type:** Enter a wildlife type (i.e., bird, mammal, reptile).
- **Enter a Preferred Habitat:** Enter a preferred habitat.
- **Enter a Secondary Habitat:** Enter a secondary habitat.
- **Enter a Tertiary Habitat:** Enter a tertiary habitat.
- **Enter a Wildlife Name:** Enter a wildlife name.

Click to add the new data.
To add a new species to a preserve’s wildlife list, select or enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D7). To add multiple records (a list), repeat the above steps for each record.

**Figure D7. Entry fields for Add to Preserve Wildlife List**

- **Enter an Area Acronym**: Select preserve/area acronym.
- **Enter a Document Number**: Enter number assigned to new document.
- **Select a Wildlife Species**: Select wildlife species’ scientific or Latin name (i.e., Accipiter cooperii).
- **Add New Record**
- **Close the Form**
To add new burn information, enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D8).

Figure D8. Entry fields for Add to Burn Information

- **Area ID**: Enter preserve/area three-letter acronym.
- **Acreage**: Enter total acreage of burn.
- **Day**: Enter numerical day (of the month) of burn.
- **Year**: Enter year of burn (in “YYYY” format, i.e., 1995).
- **% Burned**: Enter percent of area burned.
- **Document Number**: Enter the number assigned to the document.

Type new information in boxes below and click the “Add Record” button.

- **Area Info**: Enter any comments on burn area.
- **Burn Type**: Type of burn conducted (defaults to prescribed; could be wildfire).
- **Month**: Enter month in numeric format (i.e., 1, 12).
- **% Burned**: Enter percent of area burned.
- **Document Number**: Enter the number assigned to the document.
To add a new species to a preserve's insect list, select or enter the appropriate data into the entry fields, and click on the Add New Record button to save your update (Figure D9).

**Figure D9.** Entry fields for Preserve Insect List

**Enter an Area Acronym:** Select preserve/area acronym.

**Select an Insect Species:** Select insect species' scientific or Latin name

**Enter a Document Number:** Enter number assigned to new document.

---

**Add to Preserve Insect List**

- **Select an Area Acronym:** E.M.
- **Select an Insect Species:** Psycholiidae spp.
- **Enter a Document Number:** 3

[Add Record] [Close this Form]
To search for a document, select the desired criteria from those available in the drop-down lists (Figure Ea). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure Eb). Multiple entries are permissible.

**Figure Ea.** Drop-down selection fields for Documents Information

- **Select a Document Number:** Select document by its assigned number.
- **Select an Author:** Select an author to see document(s) written by that person.
- **Select a Year:** Select a year to see what document(s) were published at that time.
- **Select an Area Acronym:** Select preserve (by acronym) that was included in document.
- **Select a Subject:** Select content subject to see documents with information on that subject.

Click to preview report of search results.

Click to clear drop-down list.

**Figure Eb.** Example of Document Information search results printout

### Find Documents

**078**


<table>
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<tr>
<th>Year</th>
<th>Location</th>
<th>Author</th>
<th>Area ID</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>NR File Cabinet copy in Cabinet</td>
<td>Toff</td>
<td>TCOY</td>
<td>Birds</td>
</tr>
</tbody>
</table>

**156**


<table>
<thead>
<tr>
<th>Year</th>
<th>Location</th>
<th>Author</th>
<th>Area ID</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>NR File Cabinet</td>
<td>Milosevich</td>
<td>MVWP</td>
<td>Birds</td>
</tr>
</tbody>
</table>
This menu includes options for 1) acquiring floristic quality assessment information (FQI, CW, CC, etc.) for entered or existing species lists, and 2) finding one or more plant species meeting selected criteria (Figure F).

**Figure F. Options in Finder/Analyzer Menu**

- **Plant List Analyzer**
  Searches for information about a list of species.

- **Preserve Flora Analyzer**
  Searches for general statistics about a list of species from a preserve.

- **Plant Species Finder**
  Lists single or multiple species meeting entered criteria.
To create and analyze (via FQA [Floristic Quality Analysis]) a list of plants, enter plants one at a time, then select the desired criteria from those available in the drop-down lists to analyze the list (Figure F1a). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure F1b).

**Figure F1a.** Drop-down selection fields for Plant List Analyzer

- **Select a Plant Species:** Select plant species by scientific or Latin name.
- **Select Native or Adventive:** Select native or adventive.
- **Select a Plant Type:** Select forb, grass, sedge, vine, tree, shrub, or cryptogam.
- **Select Wetness Category:** Select Army Corps of Engineers' wetness classification (i.e., obligate wetland).

**Figure F1b.** Example of Plant List Analyzer results printout

**Plant List Analysis**

<table>
<thead>
<tr>
<th>Adventive</th>
<th>Annual</th>
<th>forb</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Count of Species</td>
<td>Avg Conservation</td>
</tr>
<tr>
<td>Annual</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Biennial</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

Summary for Annual (1 detail record)

- **Total Species:** 3
- **% of Total:** 20.08%

Summary for Biennial (1 detail record)

- **Total Species:** 2
- **% of Total:** 15.38%
Find single or multiple species by their characteristics useful for creating a list of species meeting desired criteria (Figure F2a). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure F2b).

**Figure F2a.** Drop-down selection fields for Plant Species Finder

- **Select Native or Adventive:** Native or adventive.
- **Select a Plant Type:** Forb, grass, sedge, vine, tree, shrub, or cryptogam.
- **Select Conservatism Number:** Conservatism value as provided in Plants of the Chicago Region, 4th edition. Last four fields default to the number 12. If you want more than one number, change the 12 to the desired digit.
- **Annual/Biennial/Perennial:** Select plant characteristic
- **Select Wetness Category:** Army Corps of Engineers' wetness classification (i.e. obligate wet).

**Figure F2b.** Example of Plant Finder results printout.

### Plant Finder

<table>
<thead>
<tr>
<th>Plant species</th>
<th>ACRONYM</th>
<th>Common Name</th>
<th>Native/Ad</th>
<th>Annual/Biennial/P Physiognomy</th>
<th>C Value</th>
<th>Wet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adonis viscosa</td>
<td>ARUTR</td>
<td>ALLEGHENY VINE</td>
<td>Native</td>
<td>Biennial</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Arabis canadensis</td>
<td>ARACAN</td>
<td>SICKLE POD</td>
<td>Native</td>
<td>Biennial</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Arabis glabra</td>
<td>ARAGLA</td>
<td>TOWER MUSTARD</td>
<td>Native</td>
<td>Biennial</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Arabis lateifolia</td>
<td>ARALAE</td>
<td>SMOOTH BANK CRESS</td>
<td>Native</td>
<td>Biennial</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Arabis missouriensis deamii</td>
<td>ARAMO</td>
<td>MISSOURI ROCK CRESS</td>
<td>Native</td>
<td>Biennial</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Antennaria caudata</td>
<td>ARTCAU</td>
<td>BEACH WORMWOOD</td>
<td>Native</td>
<td>Biennial</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Cibdela tennesiens</td>
<td>CRALT</td>
<td>TALL THISTLE</td>
<td>Native</td>
<td>Biennial</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Cirsium discolor</td>
<td>CIRDIS</td>
<td>PASTURE THISTLE</td>
<td>Native</td>
<td>Biennial</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Cirsium hirsutum</td>
<td>CRHIT</td>
<td>DUNETHISTLE</td>
<td>Native</td>
<td>Biennial</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Cistus lanatus</td>
<td>CISTLA</td>
<td>PALE CORYDALIS</td>
<td>Native</td>
<td>Biennial</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Corydalis campestris</td>
<td>CORSBM</td>
<td>PINK CORYDALIS</td>
<td>Native</td>
<td>Biennial</td>
<td>10</td>
<td>6</td>
</tr>
</tbody>
</table>
To run general statistics for a list of species found in a selected preserve, select a preserve from the drop-down menu (Figure F3a). Click on the Preview Report button to view and/or print a detailed report of the search results (Figure F3b).

**Figure F3a.** Drop-down selection field for Preserve Flora Analyzer

**Figure F3b.** Resulting Preserve Flora Summary report

### Preserve Flora Summary

<table>
<thead>
<tr>
<th>Preserve Name</th>
<th>Braidwood Dunes and Savanna</th>
<th>EDS</th>
<th>Count of Species</th>
<th>Native/Advent</th>
<th>Annual/BI/Perenni</th>
<th>Physiognomy</th>
<th>Percent of total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
<td>Native</td>
<td>Annual</td>
<td>sedge</td>
<td>1.08%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4</td>
<td>Adventive</td>
<td>Biennial</td>
<td>forb</td>
<td>1.43%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>Adventive</td>
<td>Perennial</td>
<td>forb</td>
<td>4.66%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td>Adventive</td>
<td>Perennial</td>
<td>grass</td>
<td>2.51%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
<td>Adventive</td>
<td>Perennial</td>
<td>shrub</td>
<td>0.72%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>Adventive</td>
<td>Perennial</td>
<td>tree</td>
<td>0.36%</td>
</tr>
</tbody>
</table>
# WILL COUNTY DATABASE CONTENTS

## TABLES and FIELDS

1. **Alternative Common Plant Names**
   - Plant Species
   - Common Name
   - Alternative #1
   - Alternative #2

2. **Area/Doc**
   - Document Number
   - Area ID

3. **Author/Doc**
   - Document Number
   - Author

4. **Chicago Wild Plant Community Types**
   - CW Community Category
   - CW Community Subcategory
   - CW Community Type
   - Native (yes or No)
   - Wetland (yes or No)

5. **Common Plant Names List**
   - Plant Species
   - Common Names

6. **Community Type (CW)**
   - Site Name
   - County
   - Size (# acres)
   - Size Data Source
   - Quality (INAI)
   - County Community Name
   - CW Subcategories
   - CW Category
   - Auto Number

7. **Count of Preserve Animals**
   - Area ID
   - Mammals
   - Birds
   - Amphibians
   - Reptiles
   - Fish
   - Invertebrates
   - State Endangered
   - State Threatened
   - Federal Endangered
   - Federal Threatened

8. **CW Comm - Alpha**
   - CW Community Type (Alphabetized)

9. **CW plant Equivalents**
   - Plant Species (Swink & Wilhelm 4th Edition 1)
   - S/W 4th Edition 2
   - S/W 3rd Edition 1
   - S/W 3rd Edition 2
   - Mohlenbrock 1
   - Mohlenbrock 2

10. **Documents**
    - Document Number
    - Year
    - Document Name
    - Location

11. **Federal Wetness Category**
    - COW (coefficient of wetness)
    - Wetness (category)
    - Wetness Type

12. **Forest Preserve General Information**
    - Area ID
    - Preserve Name
    - Size
    - Township
    - City
    - Watershed Name
    - Sector
    - Division
    - Management Units
    - # Lakes
    - Lakes Acreage (total)
    - # Ponds
    - # permanent Streams
    - Stream Length (total)
    - Trails Length (total)
    - Grass Trails (total length)
    - Screening Trails (total length)
    - Asphalt Trails (total length)

13. **INAI Communities**
    - INAI Natural Community (Alphabetized)

14. **INAI Plant Community Types**
    - INAI Community Type
    - INAI Community Subtype
    - INAI Natural Community

15. **Lichens - Hyer** (from Hyesceck)
    - Lichen Species
    - Physiognomy
    - Substrate C (corticolus)
    - Substrate L (lignicolus)
    - Substrate S (saxicicolus)
    - Substrate T (terricolus)
    - Document Number

16. **lichens 1**
    - Lichen Species
    - Physiognomy
    - Substrate

17. **Master - Invertebrates**
    - Insect Species
    - Common Name
    - Type
    - Order
    - Family
    - Common Group Name
    - RR (Relative Rarity)

18. **Master - Mussels**
    - Mollusk Species
    - Common Name
    - E
    - T
    - W

19. **Master Lichen List**
    - Lichen Species
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<td>County</td>
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<td>Total Acreage</td>
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<td>Status</td>
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<td>INAI Community Type</td>
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<td>50. Will County Mosses</td>
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<td>Moss Species</td>
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<tr>
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<td>Plant Type</td>
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<td>52. Will County Plant Community Types</td>
<td>Will Community Type</td>
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<td>Will Community Subtype</td>
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<td>Will Community Code</td>
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</table>
53. Will County Soil Types
Soil Type
Slope Code
Erosion Code
Erosion
Soil Name
Wetland
Community Type
Taxonomic Class

QUERIES and LINKED TABLES

1. Area Plant Lists
2. Burn Information
3. Community equivalents
4. Community Locations/Acreages
5. CW Community Locations
6. Find Documents
7. FPD General Information
8. Insect Info
9. Insect Info - printable
10. Insect Information
11. Plant Finder
12. Plant Information
13. Plant List Analysis
14. Plant species Locations
15. Plant Studies Information
16. PresFloraSum
17. CW Plant Comm - Alpha
18. Soil Distribution
19. Soil Information
20. Species Count
21. Delete Temp Plant List
22. DELETED
23. Watershed Info (general)
24. Watershed Info - printable
25. Wildlife Information
26. Wildlife locations
27. will/inai/cw community equivalents
28. QryCntETWild
29. QryCommonPlantName
30. QryCountoPResWild
31. QryCWComm - alpha
32. QryDocArea
33. QryDocAuthor
34. QryDocSubject
35. QryDocYears
36. QryETplantspp
37. QryETWildsp
38. QryExportPresPlantList
39. QryFPDids
40. QryINAIComm - alpha
41. QryINAIQual
42. QryInvertFamily
43. QryInvertType
44. QryPlantFamilies
45. QryPlantList
46. QryPlantStudyArea
47. QryPresWildType
48. QrySoilComm
49. QrySoilTypeName
50. QryWatershedFlora
51. QryWatershed
52. QryWatershedWildlife
53. QryWildCommonNames
54. QryWildHabitats

FORMS and LINKED TABLES OR QUERIES

1. Add Burn Info
2. Add Menu
3. Add Preserve Wildlife
4. Add to Document List
5. Add to FPD General Info
6. Add to INAI Info
7. Add to Preserve Insects
8. Add to Preserve Plant List
9. Add to soils list
10. Add to Wildlife Master
11. Burn Entry
12. Community Information
13. Community Locate help
14. Community Locate/Acres
15. CW Comm Locations
16. Enter Plant Data
17. Find Documents
18. Finder/Analyzer Menu
19. FPD Info Tab
20. Insect Info
21. Insect Location - Help
22. Insect Locations
23. Locations Entry
24. Main Menu
25. Main Menu Help
26. Plant Information help
27. Plant List Analyzer
28. Plant Locations - Help
29. Plant Species Finder
30. Plant Species Information
31. Plant Studies Help
32. Plant Studies Sum
33. Pres Flora Sum
34. Preserve Plants Last
35. Reports Menu
36. Reports Menu Help
37. Soil Data Screen
38. Soil Distribution - Help
39. Soil Distribution Entry Form
40. Specific info
41. Specific Information Menu Help
42. Startup Screen
43. Update Burn

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44. Update Document Files  
45. Update General Flora Info  
46. Update Menu  
47. Update Preserve Info  
48. Watershed General Info  
49. Wetness Information  
50. Wildlife Info Input  
51. Wildlife Locations  
52. Pres E/T Plants  
53. Pres E/T Wildlife  
54. SubformArea/Doc  
55. SubformAuthor/Doc  
56. SubformSubject/Doc  

**MACROS and LINKED TABLES**

2. Open Main Menu & Maximize  
3. Maximize  
6. Close Specific Info Form  
7. Move text box to 2.75” X 1.45” on screen  
9. Move text box to 5.25” X 1.45” on screen  
10. Close Reports Menu  
11. Close Update Menu  
12. Close Main Menu  
13. Maximize  

**REPORTS and LINKED QUERIES**

1. Area Plant Lists  
2. Burn Information  
3. Community Equivalence  
4. Community Locations/Acreages  
5. CW Community Locations  
6. Find Documents  
7. FPD General Information  
8. Insect Info - printable  
9. Insect Information  
10. Plant Finder  
11. Plant Information  
12. Plant List Analysis  
13. Plant Species Locations  
14. Plant Studies Information  
15. Plant Studies Summary  
16. Preserve Flora Summary  
17. Preserve Flora Summary 1  
18. Quality Assessment  
19. Soil Distributions  
20. Soil Information 1  
21. Watershed Info (general)  
22. Wildlife Information  
23. Wildlife locations  
24. E/T Plant Species  
25. E/T Wildlife Species  

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