

## Site 3132: Vilas County. 1950-07-26

[s.l.]: [s.n.], 1950-07-26

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## STAND RECORD

## FORESTS

Stand No. 3132

Name:

County: Vilas

Date: July 26, 1950

Size of Stand: 2 Large

Forest Type: Red &amp; White Pine

Topography: Flat

Locality: Fence Lake

T: 40 N R: 5 E Sec: 16 N 4 W

Observers: Cottam et al

Size of Area Sampled:

Soil Type: Plainfield Fine Sand

Slope: Directions

Condition of Stand:

Good second growth - no recent burning  
A few patches of older trees

Open Grown Trees: 1, white Pine

% Canopy: 70

Stumps:

|    |    |    |     |
|----|----|----|-----|
| 1. | 4. | 7. | 10. |
| 2. | 5. | 8. | 11. |
| 3. | 6. | 9. | 12. |

Soil Data:

|                | pH | N | P | K | Ca | Mg | Org. Mat. | Colloids | W.H.C. |
|----------------|----|---|---|---|----|----|-----------|----------|--------|
| A <sub>0</sub> |    |   |   |   |    |    |           |          |        |
| A <sub>1</sub> |    |   |   |   |    |    |           |          |        |
| A <sub>2</sub> |    |   |   |   |    |    |           |          |        |
| B              |    |   |   |   |    |    |           |          |        |

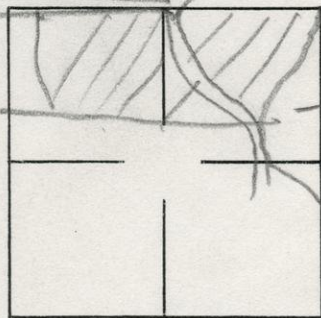
DEPTH

CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |          |              |
|----------------|----------|--------------|
| A <sub>0</sub> | 1-2"     | medium       |
| A <sub>1</sub> | 1/4-3/4" | black, sandy |
| A <sub>2</sub> | 1/2-2"   | gray sandy   |
| B              |          | Red sand     |

Parent Material:

Map:



Prob. 77

Totals  
3132  
2 Trees

2913  
2842  
125  
5880 \*

4 Trees

5539  
5401  
145  
11085 \*



Red pine

3132

|    |    |      |
|----|----|------|
|    | 60 |      |
| 1  | 35 | -    |
|    | 27 |      |
|    | 17 |      |
| 2  | 25 | -    |
| 2  | 50 | -    |
|    | 70 |      |
| 2  | 75 | -    |
|    | 26 |      |
| 45 | 26 |      |
| 60 | 14 |      |
| 2  | 20 | -    |
|    | 90 | -    |
|    | 53 |      |
|    | 33 |      |
|    | 25 |      |
|    | 60 |      |
|    | 18 |      |
| 1  | 00 | -    |
|    | 26 |      |
| 1  | 95 | -    |
|    | 18 |      |
| 1  | 75 | -    |
|    | 70 |      |
|    | 20 |      |
|    | 30 |      |
|    | 15 |      |
| 2  | 30 | -    |
|    | 30 |      |
| 1  | 00 | -    |
|    | 45 |      |
| 1  | 30 | -    |
| 2  | 80 | 80   |
| 1  | 30 | -    |
|    | 95 | -    |
|    | 50 |      |
|    | 22 |      |
| 1  | 00 | -    |
| 1  | 20 | -    |
|    | 35 |      |
|    | 40 |      |
| 1  | 20 | -    |
| 2  | 10 | -    |
|    | 40 |      |
|    | 13 |      |
|    | 45 |      |
| 1  | 00 | -    |
|    | 95 | -    |
|    | 55 |      |
|    | 75 |      |
|    | 38 |      |
|    | 82 | -    |
| 1  | 35 | -    |
|    | 83 | -    |
|    | 21 |      |
| 1  | 80 | -    |
|    | 95 | -    |
|    | 95 | -    |
|    | 60 |      |
|    | 90 | -    |
| 2  | 30 | -    |
|    | 12 |      |
|    | 20 |      |
| 2  | 10 | -    |
| 2  | 10 | -    |
|    | 40 |      |
|    | 20 |      |
|    | 20 |      |
|    | 60 |      |
| 5  | 4  | 34 * |
| 5  | 5  | 39   |

2913



White pine

313 ✓

|    |    |   |
|----|----|---|
|    | 65 |   |
|    | 55 |   |
|    | 40 |   |
| 1  | 30 | — |
|    | 45 |   |
|    | 32 |   |
|    | 19 |   |
|    | 55 |   |
|    | 65 |   |
|    | 18 |   |
| 1  | 20 | — |
| 1  | 30 | — |
|    | 40 |   |
|    | 12 |   |
|    | 28 |   |
|    | 75 |   |
|    | 74 |   |
|    | 15 |   |
|    | 90 | — |
|    | 30 |   |
| 1  | 20 | — |
|    | 45 |   |
| 1  | 20 | — |
|    | 65 |   |
|    | 35 |   |
|    | 50 |   |
|    | 12 |   |
|    | 33 |   |
|    | 75 |   |
|    | 43 |   |
|    | 70 |   |
|    | 22 |   |
|    | 50 |   |
| 1  | 25 | — |
|    | 15 |   |
|    | 15 | — |
|    | 16 |   |
|    | 35 |   |
|    | 80 |   |
| 1  | 95 | — |
|    | 60 |   |
|    | 50 |   |
| 1  | 20 | — |
|    | 18 |   |
|    | 45 |   |
| 1  | 80 | — |
|    | 40 |   |
| 28 | 42 | ① |
|    | 60 |   |
|    | 20 |   |
|    | 60 |   |
|    | 50 |   |
| 1  | 60 | — |
|    | 60 |   |
|    | 82 | — |
|    | 50 |   |
| 1  | 10 | — |
| 3  | 15 | — |
|    | 33 |   |
|    | 37 |   |
|    | 60 |   |
|    | 60 |   |
|    | 35 |   |
|    | 26 |   |
|    | 40 |   |
| 1  | 00 | — |
|    | 35 |   |
|    | 90 | — |
|    | 35 |   |
|    | 14 |   |
|    | 16 |   |
|    | 25 |   |
|    | 90 | — |
|    | 35 |   |
|    | 20 |   |
| 1  | 20 | — |
|    | 75 |   |
|    | 52 |   |
|    | 15 |   |
|    | 40 |   |
|    | 33 |   |
|    | 75 |   |
|    | 50 |   |
|    | 20 |   |
|    | 16 |   |
|    | 50 |   |
|    | 28 |   |
|    | 16 |   |
| 1  | 00 | — |
|    | 35 |   |
|    | 23 |   |
|    | 75 |   |
|    | 18 |   |
| 54 | 01 | * |



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3132

| STATION NO.          | 1          | 2             | 3           | 4                  | 5          | 6              | 7                   | 8          | 9               | 10          |
|----------------------|------------|---------------|-------------|--------------------|------------|----------------|---------------------|------------|-----------------|-------------|
| <i>Abies balsam</i>  |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Acer rubrum</i>   | 4          |               |             | 2                  | 4          |                | ✓                   | ✓          | ✓               | ✓           |
| <i>A. sacchar.</i>   |            |               |             |                    |            |                |                     |            |                 |             |
| <i>A. spicatum</i>   |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Betula lut.</i>   |            |               |             |                    |            |                |                     |            |                 |             |
| <i>B. papyrif</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Carpinus car</i>  |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Fagus gran</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Ostrya virg</i>   |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Picea glau</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Pinus Bank</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>P. resinosa</i>   | 60         | 135           | 27<br>(130) |                    | 17<br>(95) | 225, 250       | 1                   | 70<br>(50) | 275             | 26<br>(100) |
| <i>P. Strobus</i>    | 65<br>(20) | 55<br>(60 50) | 40<br>(160) | 130, 45<br>(60 82) | 32<br>(50) | ✓ 315<br>(110) | 19, 55<br>(2 33 37) | 65<br>(60) | 18<br>(1 50 39) | 120<br>(2)  |
| <i>Populus bals</i>  |            |               |             |                    |            |                |                     |            |                 |             |
| <i>P. grand</i>      |            |               |             |                    |            |                | 1                   | 1          |                 |             |
| <i>P. trem</i>       |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Prunus pen.</i>   |            | 1             | 1           |                    |            |                |                     |            |                 |             |
| <i>Quercus ell</i>   |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Q. rubra</i>      |            | ✓             |             | ✓                  |            | ✓              | ✓                   |            |                 | ✓           |
| <i>Tilia amer</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Tsuga can</i>     |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Thuja occ</i>     |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Ulmus amer</i>    |            |               |             |                    |            |                |                     |            |                 |             |
| <i>U. fulva</i>      |            |               |             |                    |            |                |                     |            |                 |             |
| <i>Prunus serot.</i> |            |               | 2           | 2                  |            |                |                     |            |                 |             |
| <i>Salix sp.</i>     |            |               |             | ✓                  |            |                |                     |            |                 |             |
| Distance             | 12.5       | 17            | 16.5        | 22                 | 6.5        | 14.5           | 13.5                | 6.5        | 22              | 10          |

$$\frac{2611}{109}$$



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3132

| STATION NO.          | 1              | 2           | 3                | 4                | 5            | 6                   | 7                   | 8           | 9                    | 10                   |
|----------------------|----------------|-------------|------------------|------------------|--------------|---------------------|---------------------|-------------|----------------------|----------------------|
| Abies balsam         |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Acer rubrum          |                | ✓           | 2                | 2                |              | 3                   |                     |             | 1                    | 1                    |
| A. sacchar.          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| A. spicatum          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Betula lut.          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| B. papyrif           |                |             |                  |                  |              |                     |                     |             |                      | 3                    |
| Carpinus car         |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Fagus gran           |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Ostrya virg          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Picea glau           |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Pinus Bank           |                |             |                  |                  |              |                     |                     |             |                      |                      |
| P. resinosa          | 45             | (120)<br>60 | (35)             | 1                | (40)<br>26/4 | (120)<br>110<br>220 | 3                   | (40)<br>90  | 2                    |                      |
| P. Strobus           | (26,40)<br>130 | (100)<br>40 | (35)<br>28<br>13 | (70,35)<br>75,74 | (14)         | 15                  | (16,25)<br>90<br>30 | (90)<br>120 | (55,20)<br>45<br>120 | (120,75)<br>65<br>35 |
| Populus bals         |                |             |                  |                  |              |                     |                     |             |                      |                      |
| P. grand             |                |             |                  |                  |              |                     |                     |             |                      |                      |
| P. trem              |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Prunus pen.          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Quercus ell          |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Q. rubra             |                | ✓           |                  |                  | 1            |                     | ✓                   | ✓           | 1                    |                      |
| Tilia amer           |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Tsuga can            |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Thuja occ            |                |             |                  |                  |              |                     |                     |             |                      |                      |
| Ulmus amer           |                |             |                  |                  |              |                     |                     |             |                      |                      |
| U. fulva             |                |             |                  |                  |              |                     |                     |             |                      |                      |
| <i>Pinus strobus</i> | 1              | 1           | 1                | 2                | 3            |                     |                     |             |                      |                      |
| Distance             | 11             | 13          | 9                | 7.5              | 15.5         | 9.5                 | 10                  | 13.5        | 9.5                  | 15.5                 |

$$\frac{27}{10} \frac{14}{9}$$



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3132

| STATION NO.   | 21                 | 22             | 23               | 24            | 25         | 26             | 27             | 28               | 29                  | 30                  |
|---------------|--------------------|----------------|------------------|---------------|------------|----------------|----------------|------------------|---------------------|---------------------|
| Abies balsam  |                    |                |                  |               |            |                |                |                  |                     |                     |
| Acer rubrum   | 1                  | 1              |                  |               |            |                |                | 2                | 2                   | 1                   |
| A. sacchar.   |                    |                |                  |               |            |                |                |                  |                     |                     |
| A. spicatum   |                    |                |                  |               |            |                |                |                  |                     |                     |
| Betula lut.   |                    |                |                  |               |            |                |                |                  |                     |                     |
| B. papyrif    |                    | 1              |                  | 3             | 1          |                | 1              |                  | 2                   |                     |
| Carpinus car  |                    |                |                  |               |            |                |                |                  |                     |                     |
| Fagus gran    |                    |                |                  |               |            |                |                |                  |                     |                     |
| Ostrya virg   |                    |                |                  |               |            |                |                |                  |                     |                     |
| Picea glau    |                    |                |                  |               |            |                |                |                  |                     |                     |
| Pinus Bank    |                    |                |                  |               |            |                |                |                  |                     |                     |
| P. resinosa   |                    | 13<br>1        | 53, 33<br>2 (45) | 100<br>1 (75) | 25<br>(55) | 75<br>1        | 60, 18<br>(30) | 100<br>(22) (35) | 26, 15<br>(83) (21) | 18, 15<br>(18) (95) |
| P. Strobus    | 50, 12<br>(3) (15) | 33, 75<br>(40) | 33<br>1          | 43, 70<br>1   | 75<br>(50) | 22, 50<br>(50) | 20<br>(20)     | 125<br>1         |                     |                     |
| Populus bals  |                    |                |                  |               |            |                |                |                  |                     |                     |
| P. grand      | 2                  |                |                  | 1             | 2          | 4              |                |                  |                     | 1                   |
| P. trem       |                    |                |                  |               |            |                |                |                  |                     |                     |
| Prunus pen.   |                    |                |                  |               |            |                |                |                  |                     |                     |
| Quercus ell   |                    |                |                  |               |            |                |                |                  |                     |                     |
| Q. rubra      |                    |                | 2                |               |            |                | 2              |                  |                     |                     |
| Tilia amer    |                    |                |                  |               |            |                |                |                  |                     |                     |
| Tsuga can     |                    |                |                  |               |            |                |                |                  |                     |                     |
| Thuja occ     |                    |                |                  |               |            |                |                |                  |                     |                     |
| Ulmus amer    |                    |                |                  |               |            |                |                |                  |                     |                     |
| U. fulva      |                    |                |                  |               |            |                |                |                  |                     |                     |
| Prunus serot. |                    |                |                  |               |            |                | 1              |                  | 1                   |                     |
| Distance      | 9.5                | 13             | 14               | 9.5           | 9.5        | 9.5            | 21.5           | 12               | 22                  | 16                  |

$$\frac{16}{8} \frac{9}{5}$$



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3132

| STATION NO.            | 31               | 32       | 33             | 34       | 35        | 36       | 37      | 38           | 39       | 40                  |
|------------------------|------------------|----------|----------------|----------|-----------|----------|---------|--------------|----------|---------------------|
| <i>Abies balsam</i>    |                  |          |                |          |           |          |         |              |          |                     |
| <i>Acer rubrum</i>     |                  | 3        | 1              | 1        | 1         |          |         | 2            | 1        | 1                   |
| <i>A. sacchar.</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>A. spicatum</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>Betula lut.</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>B. papyrif</i>      |                  |          | 2              |          | 1         |          |         | 1            |          |                     |
| <i>Carpinus car</i>    |                  |          |                |          |           |          |         |              |          |                     |
| <i>Fagus gran</i>      |                  |          |                |          |           |          |         |              |          |                     |
| <i>Ostrya virg</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>Picea glau</i>      |                  |          |                |          |           |          |         |              |          |                     |
| <i>Pinus Bank</i>      |                  |          |                |          |           |          |         |              |          |                     |
| <i>P. resinosa</i>     |                  | 45<br>70 | 1 20           | 1 30, 90 | 2 15, 150 | 2 30     | 1 20    | 100          | 40<br>20 | 20, 60<br>45<br>150 |
| <i>P. Strobus</i>      | 16, 50<br>16, 35 | 28<br>80 | 16, 100<br>195 | 60       | 1 35      | 23<br>50 | 120, 18 | 75, 14<br>45 | 180, 40  |                     |
| <i>Populus bals</i>    |                  |          |                |          |           |          |         |              |          |                     |
| <i>P. grand</i>        |                  |          |                |          |           |          | 3 20    | 2            | 1        | 2                   |
| <i>P. trem</i>         |                  |          |                |          |           |          |         |              |          |                     |
| <i>Prunus pen.</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>Quercus ell</i>     |                  |          |                |          |           |          |         |              |          |                     |
| <i>Q. rubra</i>        | 4                |          |                |          |           |          |         |              | 2        | 1                   |
| <i>Tilia amer</i>      |                  |          |                |          |           |          |         |              |          |                     |
| <i>Tsuga can</i>       |                  |          |                |          |           |          |         |              |          |                     |
| <i>Thuja occ</i>       |                  |          |                |          |           |          |         |              |          |                     |
| <i>Ulmus amer</i>      |                  |          |                |          |           |          |         |              |          |                     |
| <i>U. fulva</i>        |                  |          |                |          |           |          |         |              |          |                     |
| <i>Prunus serotina</i> |                  |          |                |          |           |          |         | 1            |          | 2                   |
| Distance               | 15               | 8.5      | 15.5           | 8.5      | 10.5      | 6        | 11      | 8.5          | 9        | 7                   |

20 11  
9 8



# TREE DATA SUMMARY SHEET

Northern Pine-Hardwoods

Station Number: 3132

| TREE        | # PTS | # TRS | DOM. CLASSES |      |     | TOT. DOM. | # SAP | D. % SAP | F. % SDL | F. % TRS | % SUM F. TR. | D. % TRS | DOM% TRS | DFD INDEX | C. I. |
|-------------|-------|-------|--------------|------|-----|-----------|-------|----------|----------|----------|--------------|----------|----------|-----------|-------|
|             |       |       | -80          | -320 | 321 |           |       |          |          |          |              |          |          |           |       |
| Abies bals  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Acer rubru  |       |       |              |      |     |           | 39    | 26.2     | 6        |          |              |          |          |           |       |
| A. sacchar  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| A. spicatu  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Betula lut  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| B. papyrif  |       |       |              |      |     |           | 15    | 10.1     |          |          |              |          |          |           |       |
| Carpinus c  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Fagus gran  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Ostrya vir  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Picea glau  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Pinus Bank  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| P. resinosa | 26    | 34    | 22           | 12   |     | 29        | 30    | 20.1     |          | 65       | 45.6         | 42.5     | 49.5     | 137.6     | 413   |
| P. Strobus  | 30    | 45    | 35           | 10   |     | 28        | 42    | 9.4      | 4        | 75       | 52.6         | 56.25    | 48.3     | 157.2     | 786   |
| Populus ba  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| P. grandid  | 1     | 1     |              | 1    |     | 12        | 20    | 13.4     |          | 2.5      | 1.8          | 1.25     | 2.1      | 5.2       | 10    |
| P. tremulo  |       |       |              |      |     |           |       |          | 1        |          |              |          |          |           |       |
| Prunus pen  |       |       |              |      |     |           | 2     | 1.3      |          |          |              |          |          |           |       |
| Quercus el  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Q. rubra    |       |       |              |      |     |           | 13    | 8.7      | 8        |          |              |          |          |           |       |
| Tilia amer  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Tsuga cana  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Thuja occi  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Ulmus amer  |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| U. fulva    |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
| Prunus ser  |       |       |              |      |     |           | 16    | 10.7     |          |          |              |          |          |           |       |
| Salix sp    |       |       |              |      |     |           |       |          | 1        |          |              |          |          |           |       |
|             |       |       |              |      |     |           |       |          |          |          |              |          |          |           |       |
|             | 57    | 80    | 57           | 23   |     | 58        | 80    | 49       | 99.9     | 142.5    | 100.0        | 100.0    | 99.9     | 300.0     | 1209  |

AVE. DIST. BTW'N TREES:

12.3

AVE B. A.:

73.5

# TREES/ACRE:

327

DOM./ACRE:

24,035

1350

original

2 trees

Prob. 77



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 1

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
✓ *Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
✓ *Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
✓ *Corylus cornuta*  
*Cypripedium acaule*  
✓ *Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
✓ *Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
✓ *Pteridium aquilinum*  
✓ *Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
✓ *Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
✓ *Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
✓ *Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
✓ *Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
✓ *Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 2

|                            |                         |                          |
|----------------------------|-------------------------|--------------------------|
| ✓ Actaea pachypoda         | ✓ Fragaria virginiana   | Potentilla simplex       |
| Actaea rubra               | Galium lanceolatum      | Prenanthes alba          |
| Adiantum pedatum           | Galium triflorum        | ✓ Pteridium aquilinum    |
| Allium tricoccum           | Gaultheria procumbens   | Pyrola elliptica         |
| Anemone quinquefolia       | Gaylussacia baccata     | ✓ Pyrola rotundifolia    |
| Aquilegia canadensis       | Geranium maculatum      | Pyrola secunda           |
| ✓ Aralia nudicaulis        | Geum canadense          | Ranunculus recurvatus    |
| Aralia racemosa            | Gnaphalium obtusifolium | ✓ Rhus radicans          |
| Arisaema atrorubens        | Helianthemum sp.        | Ribes americanum         |
| ✓ Aster macrophyllus       | Helianthus strumosus    | Rosa sp.                 |
| Aster sagittifolius        | Hepatica acutiloba      | Rubus parviflorus        |
| Athyrium angustum          | Hepatica americana      | Rubus (blackberry)       |
| Botrychium virginianum     | Impatiens biflora       | Rubus (dewberry)         |
| Brachyelytrum erectum      | Linnaea borealis        | Sambucus pubens          |
| Carex albursina            | Lonicera oblongifolia   | Sanguinaria canadensis   |
| Caulophyllum thalictroides | Lupinus perennis        | Sanicula gregaria        |
| Chimaphila umbellata       | Lycopodium annotinum    | ✓ Smilacina racemosa     |
| Circaea alpina             | Lycopodium complanatum  | Smilacina stellata       |
| Circaea latifolia          | Lycopodium lucidulum    | Smilax ecirrhata         |
| Clintonia borealis         | Lycopodium obscurum     | Solidago ulmifolia       |
| Coptis trifolia            | Lysimachia quadrifolia  | Streptopus roseus        |
| Corallorrhiza maculata     | ✓ Maianthemum canadense | Taxus canadensis         |
| Cornus alternifolia        | Mitchella repens        | Thalictrum dioicum       |
| Cornus canadensis          | Mitella diphylla        | ✓ Trientalis borealis    |
| Cornus rugosa              | Mitella nuda            | Trillium grandiflorum    |
| ✓ Corylus americana        | Monotropa uniflora      | Uvularia grandiflora     |
| ✓ Corylus cornuta          | Myrica asplenifolia     | ✓ Uvularia sessilifolia  |
| Cypripedium acaule         | Onoclea sensibilis      | Vaccinium angustifolium  |
| ✓ Diervilla lonicera       | ✓ Oryzopsis asperifolia | Vaccinium pennsylvanicum |
| Dirca palustris            | Osmorhiza claytoni      | Viburnum acerifolium     |
| Dryopteris linnaeana       | Oxalis montana          | Viola canadensis         |
| Dryopteris phegopteris     | Phryma leptostachya     | Viola cucullata          |
| Dryopteris spinulosa       | ✓ Polygala pauciflora   | Viola pallens            |
| Epifagus virginiana        | Polygonatum commutatum  | Viola pubescens          |
| Epigaea repens             | Polygonatum pubescens   | Waldsteinia fragarioides |

Melampyrum lineare



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.  
Quadrat No. 3

3132

|                            |                         |                          |
|----------------------------|-------------------------|--------------------------|
| ✓ Actaea pachypoda         | ✓ Fragaria virginiana   | Potentilla simplex       |
| Actaea rubra               | Galium lanceolatum      | Prenanthes alba          |
| Adiantum pedatum           | Galium triflorum        | ✓ Pteridium aquilinum    |
| Allium tricoccum           | Gaultheria procumbens   | Pyrola elliptica         |
| ✓ Anemone quinquefolia     | Gaylussacia baccata     | Pyrola rotundifolia      |
| Aquilegia canadensis       | Geranium maculatum      | ✓ Pyrola secunda         |
| ✓ Aralia nudicaulis        | Geum canadense          | Ranunculus recurvatus    |
| Aralia racemosa            | Gnaphalium obtusifolium | Rhus radicans            |
| Arisaema atrorubens        | Helianthemum sp.        | Ribes americanum         |
| Aster macrophyllus         | Helianthus strumosus    | Rosa sp.                 |
| Aster sagittifolius        | Hepatica acutiloba      | Rubus parviflorus        |
| Athyrium angustum          | Hepatica americana      | Rubus (blackberry)       |
| Botrychium virginianum     | Impatiens biflora       | Rubus (dewberry)         |
| Brachyelytrum erectum      | Linnaea borealis        | Sambucus pubens          |
| Carex albursina            | Lonicera oblongifolia   | Sanguinaria canadensis   |
| Caulophyllum thalictroides | Lupinus perennis        | Sanicula gregaria        |
| ✓ Chimaphila umbellata     | Lycopodium annotinum    | Smilacina racemosa       |
| Circaea alpina             | Lycopodium complanatum  | Smilacina stellata       |
| Circaea latifolia          | Lycopodium lucidulum    | Smilax ecirrhata         |
| Clintonia borealis         | Lycopodium obscurum     | Solidago ulmifolia       |
| Coptis trifolia            | Lysimachia quadrifolia  | Streptopus roseus        |
| Corallorrhiza maculata     | ✓ Maianthemum canadense | Taxus canadensis         |
| Cornus alternifolia        | Mitchella repens        | Thalictrum dioicum       |
| Cornus canadensis          | Mitella diphylla        | Trientalis borealis      |
| Cornus rugosa              | Mitella nuda            | Trillium grandiflorum    |
| Corylus americana          | Monotropa uniflora      | Uvularia grandiflora     |
| Corylus cornuta            | Myrica asplenifolia     | ✓ Uvularia sessilifolia  |
| Cypripedium acaule         | Onoclea sensibilis      | Vaccinium angustifolium  |
| Diervilla lonicera         | ✓ Oryzopsis asperifolia | Vaccinium pennsylvanicum |
| Dirca palustris            | Osmorhiza claytoni      | Viburnum acerifolium     |
| ✓ Dryopteris linnaeana     | Oxalis montana          | Viola canadensis         |
| Dryopteris phegopteris     | Phryma leptostachya     | Viola cucullata          |
| ✓ Dryopteris spinulosa     | Polygala pauciflora     | Viola pallens            |
| Epifagus virginiana        | Polygonatum commutatum  | Viola pubescens          |
| Epigaea repens             | Polygonatum pubescens   | Waldsteinia fragarioides |



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 4

|                               |                                |                                  |
|-------------------------------|--------------------------------|----------------------------------|
| Actaea pachypoda              | ✓ <i>Fragaria virginiana</i>   | <i>Potentilla simplex</i>        |
| Actaea rubra                  | <i>Galium lanceolatum</i>      | <i>Prenanthes alba</i>           |
| Adiantum pedatum              | <i>Galium triflorum</i>        | ✓ <i>Pteridium aquilinum</i>     |
| Allium tricoccum              | ✓ <i>Gaultheria procumbens</i> | <i>Pyrola elliptica</i>          |
| Anemone quinquefolia          | <i>Gaylussacia baccata</i>     | <i>Pyrola rotundifolia</i>       |
| Aquilegia canadensis          | <i>Geranium maculatum</i>      | <i>Pyrola secunda</i>            |
| Aralia nudicaulis             | <i>Geum canadense</i>          | <i>Ranunculus recurvatus</i>     |
| Aralia racemosa               | <i>Gnaphalium obtusifolium</i> | ✓ <i>Rhus radicans</i>           |
| Arisaema atrorubens           | <i>Helianthemum sp.</i>        | <i>Ribes americanum</i>          |
| Aster macrophyllus            | <i>Helianthus strumosus</i>    | <i>Rosa sp.</i>                  |
| Aster sagittifolius           | <i>Hepatica acutiloba</i>      | <i>Rubus parviflorus</i>         |
| Athyrium angustum             | <i>Hepatica americana</i>      | <i>Rubus (blackberry)</i>        |
| Botrychium virginianum        | <i>Impatiens biflora</i>       | <i>Rubus (dewberry)</i>          |
| Brachyelytrum erectum         | <i>Linnaea borealis</i>        | <i>Sambucus pubens</i>           |
| Carex albursina               | <i>Lonicera oblongifolia</i>   | <i>Sanguinaria canadensis</i>    |
| Caulophyllum thalictroides    | <i>Lupinus perennis</i>        | <i>Sanicula gregaria</i>         |
| ✓ <i>Chimaphila umbellata</i> | <i>Lycopodium annotinum</i>    | <i>Smilacina racemosa</i>        |
| <i>Circaea alpina</i>         | <i>Lycopodium complanatum</i>  | <i>Smilacina stellata</i>        |
| <i>Circaea latifolia</i>      | <i>Lycopodium lucidulum</i>    | <i>Smilax ecirrhata</i>          |
| <i>Clintonia borealis</i>     | <i>Lycopodium obscurum</i>     | <i>Solidago ulmifolia</i>        |
| <i>Coptis trifolia</i>        | <i>Lysimachia quadrifolia</i>  | <i>Streptopus roseus</i>         |
| <i>Corallorrhiza maculata</i> | ✓ <i>Maianthemum canadense</i> | <i>Taxus canadensis</i>          |
| <i>Cornus alternifolia</i>    | <i>Mitchella repens</i>        | <i>Thalictrum dioicum</i>        |
| <i>Cornus canadensis</i>      | <i>Mitella diphylla</i>        | <i>Trientalis borealis</i>       |
| <i>Cornus rugosa</i>          | <i>Mitella nuda</i>            | <i>Trillium grandiflorum</i>     |
| <i>Corylus americana</i>      | <i>Monotropa uniflora</i>      | <i>Uvularia grandiflora</i>      |
| <i>Corylus cornuta</i>        | <i>Myrica asplenifolia</i>     | ✓ <i>Uvularia sessilifolia</i>   |
| <i>Cypripedium acaule</i>     | <i>Onoclea sensibilis</i>      | ✓ <i>Vaccinium angustifolium</i> |
| ✓ <i>Diervilla lonicera</i>   | <i>Oryzopsis asperifolia</i>   | <i>Vaccinium pennsylvanicum</i>  |
| <i>Dirca palustris</i>        | <i>Osmorhiza claytoni</i>      | <i>Viburnum acerifolium</i>      |
| <i>Dryopteris linnaeana</i>   | <i>Oxalis montana</i>          | <i>Viola canadensis</i>          |
| <i>Dryopteris phegopteris</i> | <i>Phryma leptostachya</i>     | <i>Viola cucullata</i>           |
| <i>Dryopteris spinulosa</i>   | ✓ <i>Polygala pauciflora</i>   | <i>Viola pallens</i>             |
| <i>Epifagus virginiana</i>    | <i>Polygonatum commutatum</i>  | <i>Viola pubescens</i>           |
| ✓ <i>Epigaea repens</i>       | <i>Polygonatum pubescens</i>   | <i>Waldsteinia fragarioides</i>  |

*amelanchier*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.  
Quadrat No. 5

3132

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
*Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
*Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 6

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
*Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
*Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 7

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
✓ *Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
✓ *Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
✓ *Corylus cornuta*  
*Cypripedium acaule*  
✓ *Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
✓ *Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
✓ *Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
✓ *Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
✓ *Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3152  
Quadrat No. 8

|                                   |                                |                                  |
|-----------------------------------|--------------------------------|----------------------------------|
| <i>Actaea pachypoda</i>           | <i>Fragaria virginiana</i>     | <i>Potentilla simplex</i>        |
| <i>Actaea rubra</i>               | <i>Galium lanceolatum</i>      | <i>Prenanthes alba</i>           |
| <i>Adiantum pedatum</i>           | <i>Galium triflorum</i>        | ✓ <i>Pteridium aquilinum</i>     |
| <i>Allium tricoccum</i>           | <i>Gaultheria procumbens</i>   | <i>Pyrola elliptica</i>          |
| ✓ <i>Anemone quinquefolia</i>     | <i>Gaylussacia baccata</i>     | <i>Pyrola rotundifolia</i>       |
| <i>Aquilegia canadensis</i>       | <i>Geranium maculatum</i>      | <i>Pyrola secunda</i>            |
| ✓ <i>Aralia nudicaulis</i>        | <i>Geum canadense</i>          | <i>Ranunculus recurvatus</i>     |
| <i>Aralia racemosa</i>            | <i>Gnaphalium obtusifolium</i> | <i>Rhus radicans</i>             |
| <i>Arisaema atrorubens</i>        | <i>Helianthemum</i> sp.        | <i>Ribes americanum</i>          |
| <i>Aster macrophyllus</i>         | <i>Helianthus strumosus</i>    | <i>Rosa</i> sp.                  |
| <i>Aster sagittifolius</i>        | <i>Hepatica acutiloba</i>      | <i>Rubus parviflorus</i>         |
| <i>Athyrium angustum</i>          | <i>Hepatica americana</i>      | <i>Rubus</i> (blackberry)        |
| <i>Botrychium virginianum</i>     | <i>Impatiens biflora</i>       | <i>Rubus</i> (dewberry)          |
| <i>Brachyelytrum erectum</i>      | <i>Linnaea borealis</i>        | <i>Sambucus pubens</i>           |
| <i>Carex albursina</i>            | <i>Lonicera oblongifolia</i>   | <i>Sanguinaria canadensis</i>    |
| <i>Caulophyllum thalictroides</i> | <i>Lupinus perennis</i>        | <i>Sanicula gregaria</i>         |
| <i>Chimaphila umbellata</i>       | <i>Lycopodium annotinum</i>    | <i>Smilacina racemosa</i>        |
| <i>Circaea alpina</i>             | <i>Lycopodium complanatum</i>  | <i>Smilacina stellata</i>        |
| <i>Circaea latifolia</i>          | <i>Lycopodium lucidulum</i>    | <i>Smilax ecirrhata</i>          |
| <i>Clintonia borealis</i>         | <i>Lycopodium obscurum</i>     | <i>Solidago ulmifolia</i>        |
| <i>Coptis trifolia</i>            | <i>Lysimachia quadrifolia</i>  | <i>Streptopus roseus</i>         |
| <i>Corallorrhiza maculata</i>     | ✓ <i>Maianthemum canadense</i> | <i>Taxus canadensis</i>          |
| <i>Cornus alternifolia</i>        | <i>Mitchella repens</i>        | <i>Thalictrum dioicum</i>        |
| <i>Cornus canadensis</i>          | <i>Mitella diphylla</i>        | ✓ <i>Trientalis borealis</i>     |
| <i>Cornus rugosa</i>              | <i>Mitella nuda</i>            | <i>Trillium grandiflorum</i>     |
| <i>Corylus americana</i>          | <i>Monotropa uniflora</i>      | <i>Uvularia grandiflora</i>      |
| <i>Corylus cornuta</i>            | <i>Myrica asplenifolia</i>     | <i>Uvularia sessilifolia</i>     |
| <i>Cypripedium acaule</i>         | <i>Onoclea sensibilis</i>      | ✓ <i>Vaccinium angustifolium</i> |
| ✓ <i>Diervilla lonicera</i>       | <i>Oryzopsis asperifolia</i>   | <i>Vaccinium pennsylvanicum</i>  |
| <i>Dirca palustris</i>            | <i>Osmorhiza claytoni</i>      | <i>Viburnum acerifolium</i>      |
| <i>Dryopteris linnaeana</i>       | <i>Oxalis montana</i>          | <i>Viola canadensis</i>          |
| <i>Dryopteris phegopteris</i>     | <i>Phryma leptostachya</i>     | <i>Viola cucullata</i>           |
| <i>Dryopteris spinulosa</i>       | ✓ <i>Polygala pauciflora</i>   | <i>Viola pallens</i>             |
| <i>Epifagus virginiana</i>        | <i>Polygonatum commutatum</i>  | <i>Viola pubescens</i>           |
| <i>Epigaea repens</i>             | <i>Polygonatum pubescens</i>   | <i>Waldsteinia fragarioides</i>  |



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.  
Quadrat No.

3132

9

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
*Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
*Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*

*Melampyrum lineare*  
*Aster*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 11

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
~~✓~~ *Anemone quinquefolia*  
*Aquilegia canadensis*  
~~✓~~ *Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*  
~~✓~~ *Hamamelis*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
~~✓~~ *Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
~~✓~~ *Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
~~✓~~ *Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
~~✓~~ *Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
~~✓~~ *Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
~~✓~~ *Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 12

|                                 |                                  |                                  |
|---------------------------------|----------------------------------|----------------------------------|
| Actaea pachypoda                | Fragaria virginiana              | Potentilla simplex               |
| Actaea rubra                    | Galium lanceolatum               | Prenanthes alba                  |
| Adiantum pedatum                | Galium triflorum                 | <del>Pteridium</del> aquilinum   |
| Allium tricoccum                | <del>Gaultheria</del> procumbens | Pyrola elliptica                 |
| <del>Anemone</del> quinquefolia | Gaylussacia baccata              | Pyrola rotundifolia              |
| Aquilegia canadensis            | Geranium maculatum               | <del>Pyrola</del> secunda        |
| <del>Aralia</del> nudicaulis    | Geum canadense                   | Ranunculus recurvatus            |
| Aralia racemosa                 | Gnaphalium obtusifolium          | <del>Rhus</del> radicans         |
| Arisaema atrorubens             | Helianthemum sp.                 | Ribes americanum                 |
| Aster macrophyllus              | Helianthus strumosus             | Rosa sp.                         |
| Aster sagittifolius             | Hepatica acutiloba               | Rubus parviflorus                |
| Athyrium angustum               | Hepatica americana               | Rubus (blackberry)               |
| Botrychium virginianum          | Impatiens biflora                | Rubus (dewberry)                 |
| Brachyelytrum erectum           | Linnaea borealis                 | Sambucus pubens                  |
| Carex albursina                 | Lonicera oblongifolia            | Sanguinaria canadensis           |
| Caulophyllum thalictroides      | Lupinus perennis                 | Sanicula gregaria                |
| Chimaphila umbellata            | Lycopodium annotinum             | Smilacina racemosa               |
| Circaea alpina                  | Lycopodium complanatum           | Smilacina stellata               |
| Circaea latifolia               | Lycopodium lucidulum             | Smilax ecirrhata                 |
| Clintonia borealis              | Lycopodium obscurum              | Solidago ulmifolia               |
| Coptis trifolia                 | Lysimachia quadrifolia           | Streptopus roseus                |
| Corallorrhiza maculata          | Maianthemum canadense            | Taxus canadensis                 |
| Cornus alternifolia             | Mitchella repens                 | Thalictrum dioicum               |
| Cornus canadensis               | Mitella diphylla                 | Trientalis borealis              |
| Cornus rugosa                   | Mitella nuda                     | Trillium grandiflorum            |
| Corylus americana               | Monotropa uniflora               | Uvularia grandiflora             |
| Corylus cornuta                 | Myrica asplenifolia              | <del>Uvularia</del> sessilifolia |
| Cypripedium acaule              | Onoclea sensibilis               | Vaccinium angustifolium          |
| Diervilla lonicera              | Oryzopsis asperifolia            | Vaccinium pennsylvanicum         |
| Dirca palustris                 | Osmorhiza claytoni               | Viburnum acerifolium             |
| Dryopteris linnaeana            | Oxalis montana                   | Viola canadensis                 |
| Dryopteris phegopteris          | Phryma leptostachya              | Viola cucullata                  |
| Dryopteris spinulosa            | Polygala pauciflora              | Viola pallens                    |
| Epifagus virginiana             | Polygonatum commutatum           | Viola pubescens                  |
| Epigaea repens                  | Polygonatum pubescens            | Waldsteinia fragarioides         |

Melampyrum.



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 13

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
*Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
*Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*

~~*Epipedium acaule*~~  
*Apocynum androsaemifolium*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 2132  
Quadrat No. 14

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <i>Actaea pachypoda</i>           | <i>Fragaria virginiana</i>     | <i>Potentilla simplex</i>       |
| <i>Actaea rubra</i>               | <i>Galium lanceolatum</i>      | <i>Prenanthes alba</i>          |
| <i>Adiantum pedatum</i>           | <i>Galium triflorum</i>        | <i>Pteridium aquilinum</i>      |
| <i>Allium tricoccum</i>           | <i>Gaultheria procumbens</i>   | <i>Pyrola elliptica</i>         |
| <i>Anemone quinquefolia</i>       | <i>Gaylussacia baccata</i>     | <i>Pyrola rotundifolia</i>      |
| <i>Aquilegia canadensis</i>       | <i>Geranium maculatum</i>      | <i>Pyrola secunda</i>           |
| <i>Aralia nudicaulis</i>          | <i>Geum canadense</i>          | <i>Ranunculus recurvatus</i>    |
| <i>Aralia racemosa</i>            | <i>Gnaphalium obtusifolium</i> | <i>Rhus radicans</i>            |
| <i>Arisaema atrorubens</i>        | <i>Helianthemum sp.</i>        | <i>Ribes americanum</i>         |
| <i>Aster macrophyllus</i>         | <i>Helianthus strumosus</i>    | <i>Rosa sp.</i>                 |
| <i>Aster sagittifolius</i>        | <i>Hepatica acutiloba</i>      | <i>Rubus parviflorus</i>        |
| <i>Athyrium angustum</i>          | <i>Hepatica americana</i>      | <i>Rubus (blackberry)</i>       |
| <i>Botrychium virginianum</i>     | <i>Impatiens biflora</i>       | <i>Rubus (dewberry)</i>         |
| <i>Brachyelytrum erectum</i>      | <i>Linnaea borealis</i>        | <i>Sambucus pubens</i>          |
| <i>Carex albursina</i>            | <i>Lonicera oblongifolia</i>   | <i>Sanguinaria canadensis</i>   |
| <i>Caulophyllum thalictroides</i> | <i>Lupinus perennis</i>        | <i>Sanicula gregaria</i>        |
| <i>Chimaphila umbellata</i>       | <i>Lycopodium annotinum</i>    | <i>Smilacina racemosa</i>       |
| <i>Circaea alpina</i>             | <i>Lycopodium complanatum</i>  | <i>Smilacina stellata</i>       |
| <i>Circaea latifolia</i>          | <i>Lycopodium lucidulum</i>    | <i>Smilax ecirrhata</i>         |
| <i>Clintonia borealis</i>         | <i>Lycopodium obscurum</i>     | <i>Solidago ulmifolia</i>       |
| <i>Coptis trifolia</i>            | <i>Lysimachia quadrifolia</i>  | <i>Streptopus roseus</i>        |
| <i>Corallorrhiza maculata</i>     | <i>Maianthemum canadense</i>   | <i>Taxus canadensis</i>         |
| <i>Cornus alternifolia</i>        | <i>Mitchella repens</i>        | <i>Thalictrum dioicum</i>       |
| <i>Cornus canadensis</i>          | <i>Mitella diphylla</i>        | <i>Trientalis borealis</i>      |
| <i>Cornus rugosa</i>              | <i>Mitella nuda</i>            | <i>Trillium grandiflorum</i>    |
| <i>Corylus americana</i>          | <i>Monotropa uniflora</i>      | <i>Uvularia grandiflora</i>     |
| <i>Corylus cornuta</i>            | <i>Myrica asplenifolia</i>     | <i>Uvularia sessilifolia</i>    |
| <i>Cypripedium acaule</i>         | <i>Onoclea sensibilis</i>      | <i>Vaccinium angustifolium</i>  |
| <i>Diervilla lonicera</i>         | <i>Oryzopsis asperifolia</i>   | <i>Vaccinium pennsylvanicum</i> |
| <i>Dirca palustris</i>            | <i>Osmorhiza claytoni</i>      | <i>Viburnum acerifolium</i>     |
| <i>Dryopteris linnaeana</i>       | <i>Oxalis montana</i>          | <i>Viola canadensis</i>         |
| <i>Dryopteris phegopteris</i>     | <i>Phryma leptostachya</i>     | <i>Viola cucullata</i>          |
| <i>Dryopteris spinulosa</i>       | <i>Polygala pauciflora</i>     | <i>Viola pallens</i>            |
| <i>Epifagus virginiana</i>        | <i>Polygonatum commutatum</i>  | <i>Viola pubescens</i>          |
| <i>Epigaea repens</i>             | <i>Polygonatum pubescens</i>   | <i>Waldsteinia fragarioides</i> |



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 15

|                            |                         |                          |
|----------------------------|-------------------------|--------------------------|
| Actaea pachypoda           | ✓Fragaria virginiana    | Potentilla simplex       |
| Actaea rubra               | Galium lanceolatum      | Prenanthes alba          |
| Adiantum pedatum           | Galium triflorum        | ✓Pteridium aquilinum     |
| Allium tricoccum           | ✓Gaultheria procumbens  | Pyrola elliptica         |
| ✓Anemone quinquefolia      | Gaylussacia baccata     | Pyrola rotundifolia      |
| Aquilegia canadensis       | Geranium maculatum      | Pyrola secunda           |
| ✓Aralia nudicaulis         | Geum canadense          | Ranunculus recurvatus    |
| Aralia racemosa            | Gnaphalium obtusifolium | Rhus radicans            |
| Arisaema atrorubens        | Helianthemum sp.        | Ribes americanum         |
| ✓Aster macrophyllus        | Helianthus strumosus    | Rosa sp.                 |
| Aster sagittifolius        | Hepatica acutiloba      | Rubus parviflorus        |
| Athyrium angustum          | Hepatica americana      | Rubus (blackberry)       |
| Botrychium virginianum     | Impatiens biflora       | Rubus (dewberry)         |
| Brachyelytrum erectum      | Linnaea borealis        | Sambucus pubens          |
| Carex albursina            | Lonicera oblongifolia   | Sanguinaria canadensis   |
| Caulophyllum thalictroides | Lupinus perennis        | Sanicula gregaria        |
| Chimaphila umbellata       | Lycopodium annotinum    | Smilacina racemosa       |
| Circaea alpina             | Lycopodium complanatum  | Smilacina stellata       |
| Circaea latifolia          | Lycopodium lucidulum    | Smilax ecirrhata         |
| Clintonia borealis         | Lycopodium obscurum     | Solidago ulmifolia       |
| Coptis trifolia            | Lysimachia quadrifolia  | Streptopus roseus        |
| Corallorrhiza maculata     | Maianthemum canadense   | Taxus canadensis         |
| Cornus alternifolia        | Mitchella repens        | Thalictrum dioicum       |
| Cornus canadensis          | Mitella diphylla        | Trientalis borealis      |
| Cornus rugosa              | Mitella nuda            | Trillium grandiflorum    |
| Corylus americana          | Monotropa uniflora      | Uvularia grandiflora     |
| Corylus cornuta            | Myrica asplenifolia     | Uvularia sessilifolia    |
| Cypripedium acaule         | Onoclea sensibilis      | Vaccinium angustifolium  |
| ✓Diervilla lonicera        | Oryzopsis asperifolia   | Vaccinium pennsylvanicum |
| Dirca palustris            | Osmorhiza claytoni      | Viburnum acerifolium     |
| Dryopteris linnaeana       | Oxalis montana          | Viola canadensis         |
| Dryopteris phegopteris     | Phryma leptostachya     | Viola cucullata          |
| Dryopteris spinulosa       | Polygala pauciflora     | Viola pallens            |
| Epifagus virginiana        | Polygonatum commutatum  | Viola pubescens          |
| Epigaea repens             | Polygonatum pubescens   | Waldsteinia fragarioides |



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 4

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
*Gaultheria procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum sp.*  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
*Maianthemum canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
*Pteridium aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa sp.*  
*Rubus parviflorus*  
*Rubus (blackberry)*  
*Rubus (dewberry)*  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
*Trientalis borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*

✓ *Melampyrum*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 17

|                                                               |                                                                  |                                                                  |
|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| <i>Actaea pachypoda</i>                                       | <input checked="" type="checkbox"/> <i>Fragaria virginiana</i>   | <i>Potentilla simplex</i>                                        |
| <i>Actaea rubra</i>                                           | <i>Galium lanceolatum</i>                                        | <i>Prenanthes alba</i>                                           |
| <i>Adiantum pedatum</i>                                       | <i>Galium triflorum</i>                                          | <input checked="" type="checkbox"/> <i>Pteridium aquilinum</i>   |
| <i>Allium tricoccum</i>                                       | <input checked="" type="checkbox"/> <i>Gaultheria procumbens</i> | <i>Pyrola elliptica</i>                                          |
| <i>Anemone quinquefolia</i>                                   | <i>Gaylussacia baccata</i>                                       | <input checked="" type="checkbox"/> <i>Pyrola rotundifolia</i>   |
| <i>Aquilegia canadensis</i>                                   | <i>Geranium maculatum</i>                                        | <i>Pyrola secunda</i>                                            |
| <i>Aralia nudicaulis</i>                                      | <i>Geum canadense</i>                                            | <i>Ranunculus recurvatus</i>                                     |
| <i>Aralia racemosa</i>                                        | <i>Gnaphalium obtusifolium</i>                                   | <i>Rhus radicans</i>                                             |
| <i>Arisaema atrorubens</i>                                    | <i>Helianthemum</i> sp.                                          | <i>Ribes americanum</i>                                          |
| <i>Aster macrophyllus</i>                                     | <i>Helianthus strumosus</i>                                      | <i>Rosa</i> sp.                                                  |
| <i>Aster sagittifolius</i>                                    | <i>Hepatica acutiloba</i>                                        | <i>Rubus parviflorus</i>                                         |
| <i>Athyrium angustum</i>                                      | <i>Hepatica americana</i>                                        | <i>Rubus</i> (blackberry)                                        |
| <i>Botrychium virginianum</i>                                 | <i>Impatiens biflora</i>                                         | <i>Rubus</i> (dewberry)                                          |
| <i>Brachyelytrum erectum</i>                                  | <i>Linnaea borealis</i>                                          | <i>Sambucus pubens</i>                                           |
| <i>Carex albursina</i>                                        | <i>Lonicera oblongifolia</i>                                     | <i>Sanguinaria canadensis</i>                                    |
| <i>Caulophyllum thalictroides</i>                             | <i>Lupinus perennis</i>                                          | <i>Sanicula gregaria</i>                                         |
| <i>Chimaphila umbellata</i>                                   | <i>Lycopodium annotinum</i>                                      | <i>Smilacina racemosa</i>                                        |
| <i>Circaea alpina</i>                                         | <i>Lycopodium complanatum</i>                                    | <i>Smilacina stellata</i>                                        |
| <i>Circaea latifolia</i>                                      | <i>Lycopodium lucidulum</i>                                      | <i>Smilax ecirrhata</i>                                          |
| <i>Clintonia borealis</i>                                     | <i>Lycopodium obscurum</i>                                       | <i>Solidago ulmifolia</i>                                        |
| <i>Coptis trifolia</i>                                        | <i>Lysimachia quadrifolia</i>                                    | <i>Streptopus roseus</i>                                         |
| <i>Corallorrhiza maculata</i>                                 | <input checked="" type="checkbox"/> <i>Maianthemum canadense</i> | <i>Taxus canadensis</i>                                          |
| <i>Cornus alternifolia</i>                                    | <i>Mitchella repens</i>                                          | <i>Thalictrum dioicum</i>                                        |
| <i>Cornus canadensis</i>                                      | <i>Mitella diphylla</i>                                          | <i>Trientalis borealis</i>                                       |
| <i>Cornus rugosa</i>                                          | <i>Mitella nuda</i>                                              | <i>Trillium grandiflorum</i>                                     |
| <i>Corylus americana</i>                                      | <i>Monotropa uniflora</i>                                        | <i>Uvularia grandiflora</i>                                      |
| <i>Corylus cornuta</i>                                        | <i>Myrica asplenifolia</i>                                       | <input checked="" type="checkbox"/> <i>Uvularia sessilifolia</i> |
| <i>Cypripedium acaule</i>                                     | <i>Onoclea sensibilis</i>                                        | <i>Vaccinium angustifolium</i>                                   |
| <input checked="" type="checkbox"/> <i>Diervilla lonicera</i> | <i>Oryzopsis asperifolia</i>                                     | <i>Vaccinium pennsylvanicum</i>                                  |
| <i>Dirca palustris</i>                                        | <i>Osmorhiza claytoni</i>                                        | <i>Viburnum acerifolium</i>                                      |
| <i>Dryopteris linnaeana</i>                                   | <i>Oxalis montana</i>                                            | <i>Viola canadensis</i>                                          |
| <i>Dryopteris phegopteris</i>                                 | <i>Phryma leptostachya</i>                                       | <i>Viola cucullata</i>                                           |
| <i>Dryopteris spinulosa</i>                                   | <input checked="" type="checkbox"/> <i>Polygala pauciflora</i>   | <i>Viola pallens</i>                                             |
| <i>Epifagus virginiana</i>                                    | <i>Polygonatum commutatum</i>                                    | <i>Viola pubescens</i>                                           |
| <i>Epigaea repens</i>                                         | <i>Polygonatum pubescens</i>                                     | <i>Waldsteinia fragarioides</i>                                  |



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 18

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
*Anemone quinquefolia*  
*Aquilegia canadensis*  
*Aralia nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
~~Aster~~ *macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
~~Diervilla~~ *lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
~~Epigaea~~ *repens*

*Fragaria virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
~~Gaultheria~~ *procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum* sp.  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
~~Maianthemum~~ *canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
~~Pteridium~~ *aquilinum*  
*Pyrola elliptica*  
~~Pyrola~~ *rotundifolia*  
*Pyrola secunda*  
*Ranunculus recurvatus*  
*Rhus radicans*  
*Ribes americanum*  
*Rosa* sp.  
*Rubus parviflorus*  
*Rubus* (blackberry)  
*Rubus* (dewberry)  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
~~Orientalis~~ *borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
*Uvularia sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 132  
Quadrat No. 19

*Actaea pachypoda*  
*Actaea rubra*  
*Adiantum pedatum*  
*Allium tricoccum*  
~~*Anemone*~~ *quinquefolia*  
*Aquilegia canadensis*  
~~*Aralia*~~ *nudicaulis*  
*Aralia racemosa*  
*Arisaema atrorubens*  
*Aster macrophyllus*  
*Aster sagittifolius*  
*Athyrium angustum*  
*Botrychium virginianum*  
*Brachyelytrum erectum*  
*Carex albursina*  
*Caulophyllum thalictroides*  
*Chimaphila umbellata*  
*Circaea alpina*  
*Circaea latifolia*  
*Clintonia borealis*  
*Coptis trifolia*  
*Corallorrhiza maculata*  
*Cornus alternifolia*  
*Cornus canadensis*  
*Cornus rugosa*  
*Corylus americana*  
*Corylus cornuta*  
*Cypripedium acaule*  
*Diervilla lonicera*  
*Dirca palustris*  
*Dryopteris linnaeana*  
*Dryopteris phegopteris*  
*Dryopteris spinulosa*  
*Epifagus virginiana*  
*Epigaea repens*

~~*Fragaria*~~ *virginiana*  
*Galium lanceolatum*  
*Galium triflorum*  
~~*Gaultheria*~~ *procumbens*  
*Gaylussacia baccata*  
*Geranium maculatum*  
*Geum canadense*  
*Gnaphalium obtusifolium*  
*Helianthemum* sp.  
*Helianthus strumosus*  
*Hepatica acutiloba*  
*Hepatica americana*  
*Impatiens biflora*  
*Linnaea borealis*  
*Lonicera oblongifolia*  
*Lupinus perennis*  
*Lycopodium annotinum*  
*Lycopodium complanatum*  
*Lycopodium lucidulum*  
*Lycopodium obscurum*  
*Lysimachia quadrifolia*  
~~*Maianthemum*~~ *canadense*  
*Mitchella repens*  
*Mitella diphylla*  
*Mitella nuda*  
*Monotropa uniflora*  
*Myrica asplenifolia*  
*Onoclea sensibilis*  
*Oryzopsis asperifolia*  
*Osmorhiza claytoni*  
*Oxalis montana*  
*Phryma leptostachya*  
*Polygala pauciflora*  
*Polygonatum commutatum*  
*Polygonatum pubescens*

*Potentilla simplex*  
*Prenanthes alba*  
~~*Pteridium*~~ *aquilinum*  
*Pyrola elliptica*  
*Pyrola rotundifolia*  
~~*Pyrola*~~ *secunda*  
*Ranunculus recurvatus*  
~~*Rhus*~~ *radicans*  
*Ribes americanum*  
*Rosa* sp.  
*Rubus parviflorus*  
*Rubus* (blackberry)  
*Rubus* (dewberry)  
*Sambucus pubens*  
*Sanguinaria canadensis*  
*Sanicula gregaria*  
*Smilacina racemosa*  
*Smilacina stellata*  
*Smilax ecirrhata*  
*Solidago ulmifolia*  
*Streptopus roseus*  
*Taxus canadensis*  
*Thalictrum dioicum*  
~~*Trientalis*~~ *borealis*  
*Trillium grandiflorum*  
*Uvularia grandiflora*  
~~*Uvularia*~~ *sessilifolia*  
*Vaccinium angustifolium*  
*Vaccinium pennsylvanicum*  
*Viburnum acerifolium*  
*Viola canadensis*  
*Viola cucullata*  
*Viola pallens*  
*Viola pubescens*  
*Waldsteinia fragarioides*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3132  
Quadrat No. 20

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <i>Actaea pachypoda</i>           | <i>Fragaria virginiana</i>     | <i>Potentilla simplex</i>       |
| <i>Actaea rubra</i>               | <i>Galium lanceolatum</i>      | <i>Prenanthes alba</i>          |
| <i>Adiantum pedatum</i>           | <i>Galium triflorum</i>        | <i>Pteridium aquilinum</i>      |
| <i>Allium tricoccum</i>           | <i>Gaultheria procumbens</i>   | <i>Pyrola elliptica</i>         |
| <i>Anemone quinquefolia</i>       | <i>Gaylussacia baccata</i>     | <i>Pyrola rotundifolia</i>      |
| <i>Aquilegia canadensis</i>       | <i>Geranium maculatum</i>      | <i>Pyrola secunda</i>           |
| <i>Aralia nudicaulis</i>          | <i>Geum canadense</i>          | <i>Ranunculus recurvatus</i>    |
| <i>Aralia racemosa</i>            | <i>Gnaphalium obtusifolium</i> | <i>Rhus radicans</i>            |
| <i>Arisaema atrorubens</i>        | <i>Helianthemum sp.</i>        | <i>Ribes americanum</i>         |
| <i>Aster macrophyllus</i>         | <i>Helianthus strumosus</i>    | <i>Rosa sp.</i>                 |
| <i>Aster sagittifolius</i>        | <i>Hepatica acutiloba</i>      | <i>Rubus parviflorus</i>        |
| <i>Athyrium angustum</i>          | <i>Hepatica americana</i>      | <i>Rubus (blackberry)</i>       |
| <i>Botrychium virginianum</i>     | <i>Impatiens biflora</i>       | <i>Rubus (dewberry)</i>         |
| <i>Brachyelytrum erectum</i>      | <i>Linnaea borealis</i>        | <i>Sambucus pubens</i>          |
| <i>Carex albusina</i>             | <i>Lonicera oblongifolia</i>   | <i>Sanguinaria canadensis</i>   |
| <i>Caulophyllum thalictroides</i> | <i>Lupinus perennis</i>        | <i>Sanicula gregaria</i>        |
| <i>Chimaphila umbellata</i>       | <i>Lycopodium annotinum</i>    | <i>Smilacina racemosa</i>       |
| <i>Circaea alpina</i>             | <i>Lycopodium complanatum</i>  | <i>Smilacina stellata</i>       |
| <i>Circaea latifolia</i>          | <i>Lycopodium lucidulum</i>    | <i>Smilax ecirrhata</i>         |
| <i>Clintonia borealis</i>         | <i>Lycopodium obscurum</i>     | <i>Solidago ulmifolia</i>       |
| <i>Coptis trifolia</i>            | <i>Lysimachia quadrifolia</i>  | <i>Streptopus roseus</i>        |
| <i>Corallorrhiza maculata</i>     | <i>Maianthemum canadense</i>   | <i>Taxus canadensis</i>         |
| <i>Cornus alternifolia</i>        | <i>Mitchella repens</i>        | <i>Thalictrum dioicum</i>       |
| <i>Cornus canadensis</i>          | <i>Mitella diphylla</i>        | <i>Trientalis borealis</i>      |
| <i>Cornus rugosa</i>              | <i>Mitella nuda</i>            | <i>Trillium grandiflorum</i>    |
| <i>Corylus americana</i>          | <i>Monotropa uniflora</i>      | <i>Uvularia grandiflora</i>     |
| <i>Corylus cornuta</i>            | <i>Myrica asplenifolia</i>     | <i>Uvularia sessilifolia</i>    |
| <i>Cypripedium acaule</i>         | <i>Onoclea sensibilis</i>      | <i>Vaccinium angustifolium</i>  |
| <i>Diervilla lonicera</i>         | <i>Oryzopsis asperifolia</i>   | <i>Vaccinium pennsylvanicum</i> |
| <i>Dirca palustris</i>            | <i>Osmorhiza claytoni</i>      | <i>Viburnum acerifolium</i>     |
| <i>Dryopteris linnaeana</i>       | <i>Oxalis montana</i>          | <i>Viola canadensis</i>         |
| <i>Dryopteris phegopteris</i>     | <i>Phryma leptostachya</i>     | <i>Viola cucullata</i>          |
| <i>Dryopteris spinulosa</i>       | <i>Polygala pauciflora</i>     | <i>Viola pallens</i>            |
| <i>Epifagus virginiana</i>        | <i>Polygonatum commutatum</i>  | <i>Viola pubescens</i>          |
| <i>Epigaea repens</i>             | <i>Polygonatum pubescens</i>   | <i>Waldsteinia fragarioides</i> |
| <i>Amelanchier</i>                |                                |                                 |



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|-------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-------|
| Cirsium altissimum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Claytonia caroliniana   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Claytonia virginica     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Clematis verticillaris  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Clintonia borealis      | ✓  |   |   |   |   |   |   | ✓ |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5   |
| Comandra richardsiana   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Comptonia peregrina     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Convolvulus spithameus  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Coptis groenlandica     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Corallorhiza maculata   | ✓  | ✓ |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5   |
| Corallorhiza striata    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Corallorhiza trifida    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Coreopsis palmata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cornus alternifolia     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cornus canadensis       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1     |
| Cornus foemina          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cornus rugosa           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Corydalis sp.           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Corylus americana       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Corylus cornuta         | ✓  | ✓ | ✓ |   |   |   |   | ✓ |   |   |    |    |    |    |    |    |    |    |    |    |    | 3 15  |
| Cryptotaenia canadensis |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cynoglossum boreale     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cypripedium acaule      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cypripedium parviflorum |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cypripedium pubescens   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Cystopteris fragillis   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Danthonia spicata       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dentaria diphylla       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Desmodium glutinosum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Desmodium nudiflorum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dicentra canadensis     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dicentra cucullaria     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Diervilla lonicera      | ✓  | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |    |    |    |    | ✓  | ✓  | ✓  | ✓  |    |    |    | 12 60 |
| Dirca palustris         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris bootii       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris cristata     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris goldiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris disjuncta    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris phegopteris  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Dryopteris spinulosa    | ✓  |   |   | ✓ |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5   |
| Epifagus virginiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Epigaea repens          | ✓  |   |   |   |   |   |   |   |   |   |    |    |    | ✓  |    |    |    | ✓  |    |    |    | 2 10  |
| Equisetum arvense       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Equisetum hyemale       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Equisetum sylvaticum    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Erigeron philadelphicus |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Erythronium albidum     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Erythronium americanum  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Eupatorium rugosum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Festuca obtusa          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| Fragaria virginiana     | ✓  |   | ✓ |   | ✓ | ✓ |   |   |   | ✓ |    |    |    | ✓  |    | ✓  | ✓  | ✓  | ✓  |    |    | 8 40  |



## TABULATION FORM

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|---------------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|
|                                 |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Fragaria vesca</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium aparine</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium boreale</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium circaeazans</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium concinnum</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium lanceolatum</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Galium triflorum</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Gaultheria hispidula</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Gaylussacia baccata</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Geranium maculatum</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Gerardia pedicularia</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Geum canadense</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Geum rivale</i>              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Gnaphalium obtusifolium</i>  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Goodyera oblongifolia</i>    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Goodyera pubescens</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Goodyera repens</i>          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Habenaria bracteata</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Habenaria orbiculata</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hackelia virginiana</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Halenia deflexa</i>          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hamamelis virginiana</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Helianthus strumosus</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hepatica acutiloba</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hepatica americana</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Heuchera richardsonii</i>    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hieracium canadense</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hieracium scabrum</i>        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hydrophyllum virginianum</i> |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Hystrix patula</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Ilex verticillata</i>        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Impatiens biflora</i>        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Impatiens pallida</i>        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Isopyrum biternatum</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Krigia biflora</i>           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lactuca canadensis</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Laportea canadensis</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lathyrus ochroleucus</i>     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lathyrus venosus</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Ledum groenlandicum</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lilium michiganense</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Linnaea borealis</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lithospermum canescens</i>   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lobelia inflata</i>          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lonicera canadensis</i>      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lonicera hirsuta</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lonicera oblongifolia</i>    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lonicera prolifera</i>       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Lupinus perennis</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Luzula acuminata</i>         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |
| <i>Luzula multiflora</i>        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |

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## PRESENCE LIST

## NORTHERN PINE-HARDWOODS

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Abies balsamea  
 ✓ Acer rubrum  
 Acer saccharum  
 ✓ Acer spicatum  
 ✓ Amelanchier sp.  
 Betula lutea  
 ✓ Betula papyrifera  
 Caprinus caroliniana  
 Carya cordiformis  
 Crategeus sp.  
 Fagus grandiflora  
 Fraxinus americana  
 Fraxinus nigra

Fraxinus pennsylvanica  
 Juglans cinerea  
 Larix laricina  
 Ostrya virginiana  
 Picea glauca  
 Pinus banksiana  
 ✓ Pinus resinosa  
 ✓ Pinus strobus  
 Populus balsamifera  
 ✓ Populus grandidentata  
 ✓ Populus tremuloides  
 ✓ Prunus pennsylvanica  
 Prunus serotina

Prunus virginiana  
 Quercus alba  
 Quercus ellipsoidalis  
 Quercus macrocarpa  
 ✓ Quercus rubra  
 Sorbus decora  
 Thuja occidentalis  
 Tilia americana  
 Tsuga canadensis  
 Ulmus americana  
 Ulmus fulva

## HERBS AND SHRUBS

✓ *Amelanchier* sp.  
 Actaea pachypoda  
 Actaea rubra  
 Adiantum pedatum  
 Agrimonia gryposepala  
 Allium tricoccum  
 Alnus rugosa  
 Amphicarpa bracteata  
 Anemone canadensis  
 ✓ Anemone quinquefolia  
 Antennaria sp.  
 ✓ Apocynum androsaemifolium  
 Apocynum cannabinum  
 Aquilegia canadensis  
 ✓ Aralia nudicaulis  
 Aralia racemosa  
 Arctostaphylos uva-ursi  
 Arisaema atrorubens  
 Asarum canadense  
 Asclepias phytolepis  
 Aster cordifolius  
 Aster lateriflorus  
 Aster macrophyllus  
 Aster prenanthoides  
 Aster sagittifolius  
 Aster shortii  
 Aster umbellatus  
 Athyrium angustum  
 Aureolaria pedicularia  
 Boehmeria cylindrica  
 Botrychium virginianum  
 Brachyelytrum erectum  
 Bromus purgans  
 Campanula americana  
 Carex albursina  
 Carex pensylvanica  
 Caulophyllum thalictroides  
 ✓ Celastrus scandens  
 ✓ Chimaphila umbellata  
 Chiogenes hispidula

Circaea alpina  
 Circaea latifolia  
 Claytonia caroliniana  
 Claytonia virginiana  
 Clintonia borealis  
 Convolvulus spithameus  
 Coptis trifolia  
 ✓ Corallorrhiza maculata  
 Corallorrhiza striata  
 Cornus alternifolia  
 ✓ Cornus canadensis  
 Cornus femina  
 Cornus rugosa  
 Corylus americana  
 ✓ Corylus cornuta  
 Cryptotaenia canadensis  
 Cypridium acaule  
 Cypridium pubescens  
 Cystopteris fragilis  
 Danthonia spicata  
 Dentaria diphylla  
 Desmodium glutinosum  
 Desmodium nudiflorum  
 Dicentra canadensis  
 Dicentra cucullaria  
 ✓ Diervilla lonicera  
 Dirca palustris  
 Dryopteris linneana  
 Dryopteris phegopteris  
 Dryopteris spinulosa  
 Epifagus virginiana  
 ✓ Epigaea repens  
 Equisetum arvense  
 Erythronium americanum  
 ✓ Fragaria virginiana  
 Galium aparine  
 Galium boreale  
 Galium circaezans  
 Galium concinnum

Galium lanceolatum  
 Galium triflorum  
 ✓ Gaultheria procumbens  
 Gaylussacia baccata  
 Geranium maculatum  
 Geum canadense  
 Gnaphalium obtusifolium  
 Goodyera pubescens  
 Goodyera repens  
 Habenaria bracteata  
 Hamamelis virginiana  
 Helianthus strumosus  
 Hepatica acutiloba  
 Hepatica americana  
 Hieracium canadense  
 Hydrophyllum virginianum  
 Hystrix patula  
 Impatiens biflora  
 Lactuca canadensis  
 Laportea canadensis  
 Lappula virginica  
 Lathyrus ochroleucus  
 Ledum groenlandicum  
 Linnaea borealis  
 Lonicera canadensis  
 Lonicera hirsuta  
 Lonicera oblongifolia  
 Lonicera prolifera  
 Luzula multiflora  
 Lycopodium annotinum  
 Lycopodium clavatum  
 Lycopodium complanatum  
 Lycopodium lucidulum  
 ✓ Lycopodium obscurum  
 Lycopodium tristachyum  
 Lycopodium americanum  
 Lycopodium uniflora  
 ✓ Lysimachia quadrifolia  
 ✓ Maianthemum canadense

*Commersonia umbellata*



~~Melampyrum lineare~~  
 Mitchella repens  
 Mitella diphylla  
 Mitella nuda  
 Monarda fistulosa  
 Moneses uniflora  
~~Monotropa uniflora~~  
 Myrica asplenifolia  
 Onoclea sensibilis  
 Oryzopsis asperifolia  
 Osmorhiza claytoni  
 Osmunda cinnamomea  
 Osmunda claytoniana  
 Oxalis montana  
 Panax quinquefolia  
 Parietaria pennsylvanica  
 Parthenocissus vitacea  
 Pedicularis lanceolata  
 Phyrma leptostachya  
 Podophyllum peltatum  
 Polemonium reptans  
 Polygala pauciflora  
 Polygonatum commutatum  
 Polygonatum pubescens  
 Potentilla simplex  
~~Prenanthes alba~~  
 Pteretis nodulosa  
~~Pteridium aquilinum~~

~~Pyrola elliptica~~  
~~Pyrola rotundifolia~~  
~~Pyrola secunda~~  
 Ranunculus abortivus  
 Ranunculus recurvatus  
 Ranunculus septentrionalis  
~~Rhus radicans~~  
 Rhus typhina  
 Ribes americanum  
 Ribes cynosbati  
 Ribes lacustre  
 Ribes triste  
 Rubus idaeus  
 Rubus parviflorus  
 Rubus hispidus  
 Rubus - blackberry  
~~Rubus - dewberry~~  
 Rubus - raspberry  
 Sambucus canadensis  
 Sambucus pubens  
 Sanguinaria canadensis  
 Sanicula gregaria  
 Schizachne purpurascens  
 Scutellaria lateriflora  
 Shepherdia canadensis  
~~Smilacina racemosa~~  
 Smilacina stellata  
 Smilax ecirrhata

Smilax herbacea  
 Smilax hispida  
 Solidago latifolia  
 Solidago ulmifolia  
 Streptopus amplexifolius  
 Streptopus roseus  
 Taxus canadensis  
 Thalictrum dioicum  
 Tiarella cordifolia  
~~Trientalis borealis~~  
 Trillium cernuum  
 Trillium grandiflorum  
 Uvularia grandiflora  
~~Uvularia sessilifolia~~  
 Vaccinium angustifolium  
 Vaccinium pennsylvanicum  
 Viburnum acerifolium  
 Viburnum affine  
 Viburnum lentago  
 Viola canadensis  
 Viola cucullata  
 Viola incognita  
 Viola pallens  
 Viola pubescens  
 Vitis aestivalis  
 Vitis riparia  
 Waldsteinia fragarioides  
 Zanthoxylum americanum

## Additional Species:

*Monotropa hypopitys*