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## Site 3091: Oconto County. 1950-06-18

[s.l.]: [s.n.], 1950-06-18

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## STAND RECORD

## FORESTS

Stand No.

Name:

Locality: *Morgan*County: *Oconto*T: *27N* R: *19E*Sec: *16 NE 1/4*Date: *June 18, 1950*Observers: *Cotton et al*Size of Stand: *28 acres*Size of Area Sampled: *20 acres*Forest Type: *Maple-hardwoods*Soil Type: *Miami Fine Sandy loam*Topography: *slightly rolling*

Slope:

Directions

Condition of Stand:

*Considerable cutting mostly old. + SW corner recently cut,*

Open Grown Trees:

% Canopy: *95*

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

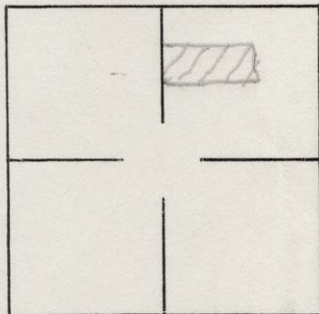
CHARACTERISTICS (Color, Texture, Structure, etc.)

|                |             |                                |
|----------------|-------------|--------------------------------|
| A <sub>0</sub> | <i>2-3"</i> | <i>deciduous leaves - well</i> |
| A <sub>1</sub> | <i>3"</i>   | <i>black loam</i>              |
| A <sub>2</sub> | <i>0</i>    |                                |
| B              |             | <i>fine sand - brown</i>       |

Parent Material:

*campy pictures 1st 4 shots on Terrel  
2nd roll*

Map:

*vernal ✓ 5/52**P<sub>rob</sub> = .39*

Ostrya

3091

|   |    |   |
|---|----|---|
|   | 90 | — |
|   | 28 |   |
| 1 | 30 | — |
| 2 | 48 | ① |
|   | 75 |   |
|   | 35 |   |
|   | 21 |   |
|   | 48 |   |
| 4 | 27 | * |

Sam Ash  
3091

230—  
70  
300①  
30  
19  
349\*



sugar  
maple

3091

|     |                   |
|-----|-------------------|
|     | 7                 |
|     | 2                 |
|     | 10                |
|     | 1                 |
|     | 6                 |
|     | 4                 |
|     | <del>1 58</del> * |
|     | 55                |
|     | 1 75              |
|     | 90                |
|     | 3 30+             |
|     | 2 10              |
|     | 14                |
|     | 55                |
|     | 75                |
|     | 17                |
|     | 40                |
|     | 14                |
|     | 24                |
|     | 1 10              |
|     | 2 70              |
|     | 1 10              |
|     | 2 75              |
|     | 1 20              |
|     | 29                |
|     | 18                |
|     | 70                |
|     | 65                |
|     | 24                |
|     | 1 00              |
|     | 15                |
|     | 28                |
|     | 18                |
|     | 17                |
|     | 13                |
|     | 16                |
|     | 1 95              |
|     | 1 70              |
|     | 90                |
|     | 58                |
|     | 60                |
|     | 65                |
|     | 25                |
|     | 1 50              |
|     | 40                |
|     | 27                |
|     | 50                |
|     | 30                |
|     | 30                |
| 3 3 | 87                |
|     | 2 35              |
|     | 35                |
|     | 30                |
| 3   | 20                |
| 1   | 30                |
| 1   | 20                |
|     | 14                |
|     | 15                |
|     | 55                |
|     | 12                |
| 2   | 30                |
|     | 14                |
|     | 45                |
| 2   | 35                |
|     | 28                |
|     | 16                |
|     | 35                |
|     | 30                |
| 1   | 05                |
|     | 13                |
|     | 42                |
|     | 45                |
|     | 50                |
|     | 32                |
|     | 29                |
|     | 28                |
|     | 12                |
| 2   | 10                |
|     | 17                |
| 2   | 80                |
| 2   | 10                |
|     | 15                |
|     | 22                |
|     | 35                |
| 3   | 60+               |
|     | 38                |
|     | 19                |
|     | 40                |
|     | 80                |
|     | 12                |
|     | 22                |
|     | 14                |
| 6 7 | 16*               |

red oak

3091

3 50

3 50 (-)

60

4 10 \*

Tilia

3091

23

260—

170—

80

210—

743⑥

200—

75

225—

140—

65

17

1465 25

am elm

15

15 ①

15 \*

Slipsong Elm

3091

19

1 70—

1 89①

1 70—

1 30—

1 35—

95—

7 19 \*



beech

3091

1 80

1 10

2 80

75

2 60

1 45

1 90

16

26

55

1 10

45

85

2 95

~~25~~

~~1 50~~

~~40~~

~~27~~

~~25~~

~~1 50~~

~~40~~

~~27~~

1 80

2 10

45

75

50

~~75~~

~~50~~

2 00

1 65

2 65

1 80

2 25

~~3 592~~

35

3467

1 60

75

30

19

55

32

45

35

1 00

58

30

1 05

1 70

2 05

65

1 70

30

85

2 40

1 60

5496

5371

distances

3091

1 70  
2 15  
1 90  
2 50  
2 40  
1 60  
2 00  
2 05  
1 80  
1 95  
1 50  
2 20  
2 35  
1 70  
2 90  
1 60  
1 30  
1 40  
1 50  
1 00  
2 00  
2 10  
2 30  
2 30  
1 20  
90  
2 70  
1 40  
60  
2 80  
1 00  
2 55  
3 15  
1 95  
85  
2 10  
2 30  
1 65  
1 30  
2 45  
7 5 10 \*



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.                                   | 1                 | 2                    | 3                    | 4                   | 5                  | 6                 | 7                   | 8                    | 9                   | 10        |
|-----------------------------------------------|-------------------|----------------------|----------------------|---------------------|--------------------|-------------------|---------------------|----------------------|---------------------|-----------|
| <i>Abies balsam</i>                           |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Acer rubrum</i>                            |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>A. sacchar.</i>                            | 55<br>(235)<br>35 | ✓ 175<br>(30)<br>330 | ✓ 90<br>(230)<br>150 | ✓ 210<br>(15)<br>14 | ✓ 145<br>(55)<br>3 | ✓ 75<br>(12)<br>4 | ✓ (230)<br>4        | ✓ 40<br>2            | ✓ (14)<br>(45)<br>4 | ✓ 14<br>4 |
| <i>A. spicatum</i>                            |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Betula lut.</i>                            |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>B. papyrif</i>                             |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Carpinus car</i>                           |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Fagus gran</i>                             |                   | 3                    |                      |                     | (35)               |                   | 180<br>(160)<br>120 |                      |                     | 280 ✓     |
| <i>Ostrya virg</i>                            | 90                |                      |                      |                     |                    |                   |                     |                      | (75)                |           |
| <i>Picea glau</i>                             |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Pinus Bank</i>                             |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>P. resinosa</i>                            |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>P. Strobus</i>                             |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Populus bals</i>                           |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>P. grand</i>                               |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>P. trem</i>                                |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Prunus</i> <sup>veg.</sup> <del>pen.</del> |                   |                      | ✓                    |                     |                    |                   |                     |                      |                     |           |
| <i>Quercus ell</i>                            |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Q. rubra</i>                               |                   |                      |                      |                     |                    |                   |                     | 350<br>(60)<br>(200) | ✓                   |           |
| <i>Tilia amer</i>                             |                   | 23                   |                      |                     |                    |                   |                     | (200)                | 260                 |           |
| <i>Tsuga can</i>                              |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Thuja occ</i>                              |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>Ulmus amer</i>                             |                   |                      |                      |                     |                    |                   |                     |                      |                     |           |
| <i>U. fulva</i>                               | ✓                 |                      | 3                    | 19                  |                    | (170)             | ✓                   |                      |                     |           |
| <i>Frax. Qm</i>                               |                   |                      | ✓                    |                     |                    |                   |                     |                      | 230                 | (30) ✓    |
| <i>Carya cordiform</i>                        |                   |                      | 1                    |                     |                    |                   | ✓                   |                      |                     | ✓         |
| Distance                                      | 17                | 21.5                 | 19                   | 25                  | 24                 | 16                | 20                  | 20.5                 | 18                  | 19.5      |

2411  
108



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.  | 1       | 2             | 3          | 4        | 5         | 6        | 7        | 8        | 9               | To           |
|--------------|---------|---------------|------------|----------|-----------|----------|----------|----------|-----------------|--------------|
| Abies balsam |         |               |            |          |           |          |          |          |                 |              |
| Acer rubrum  |         |               |            |          |           |          |          |          |                 |              |
| A. sacchar.  | 24, 110 | 270, 110, 275 | 120, 27    | 18       | 70, 65    | 24, 160  | 15, 28   | 18, 17   |                 | 30 16<br>9 9 |
| A. spicatum  |         | 235, 28       | 3          | 2 16, 35 | 2 30, 105 | 2 13, 42 | 4 45, 80 | 1 32, 29 | 4 28, 12        |              |
| Betula lut.  |         |               |            |          |           |          |          |          |                 |              |
| B. papyrif   |         |               |            |          |           |          |          |          |                 |              |
| Carpinus car |         |               |            |          |           |          |          |          |                 |              |
| Fagus gran   | 75, 1   | 75,           |            | 2 260    |           |          |          |          | 30              |              |
| Ostrya virg  |         |               |            |          |           |          | 1        |          |                 |              |
| Picea glau   |         |               |            |          |           |          |          |          |                 |              |
| Pinus Bank   |         |               |            |          |           |          |          |          |                 |              |
| P. resinosa  |         |               |            |          |           |          |          |          |                 |              |
| P. Strobus   |         |               |            |          |           |          |          |          |                 |              |
| Populus bals |         |               |            |          |           |          |          |          |                 |              |
| P. grand     |         |               |            |          |           |          |          |          |                 |              |
| P. trem      |         |               |            |          |           |          |          |          |                 |              |
| Prunus pen.  |         |               |            |          |           |          |          |          |                 |              |
| Quercus ell  |         |               |            |          |           |          |          |          |                 |              |
| Q. rubra     |         |               |            |          |           |          |          |          |                 |              |
| Tilia amer   | 75      | 1             | 225<br>140 |          |           |          |          |          | 170, 80<br>(65) |              |
| Tsuga can    |         |               |            |          |           |          |          |          |                 |              |
| Thuja occ    |         |               |            |          |           |          |          |          |                 |              |
| Ulmus amer   |         |               |            |          |           |          | 12       |          |                 |              |
| U. fulva     | 11      | 12            |            |          | 11        |          |          |          |                 |              |
| Amelanchier  |         |               |            |          |           |          |          |          |                 |              |
| Erythrina    |         |               |            |          | 11        |          |          |          |                 |              |
| Prunus serot |         |               |            |          |           |          | 11       |          |                 |              |
| Distance     | 15      | 22            | 23.5       | 17.0     | 29        | 16       | 13       | 14       | 15              | 10           |



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.  | 21              | 22          | 23              | 24           | 25             | 26                    | 27              | 28                   | 29          | 30           |   |
|--------------|-----------------|-------------|-----------------|--------------|----------------|-----------------------|-----------------|----------------------|-------------|--------------|---|
| Abies balsam |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Acer rubrum  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| A. sacchar.  | 12, 16<br>(210) | 2 (17)      | 4               | 3 195<br>4   |                | 4 170, 90<br>280, 210 | 3 58<br>4       | 2                    | 60<br>(12)  | 4 65<br>(22) | 4 |
| A. spicatum  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Betula lut.  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| B. papyrif   |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Carpinus car |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Fagus gran   |                 | 145<br>(19) | 190<br>(55, 32) | 45<br>(1)    | 16, 26<br>(35) |                       | 35,<br>(10, 58) | 110, 45<br>(30, 155) | 85<br>(170) | 295<br>(205) |   |
| Ostrya virg  | 1               | 26          |                 |              | (35)           |                       |                 | 1                    |             |              |   |
| Picea glau   |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Pinus Bank   |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| P. resinosa  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| P. Strobus   |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Populus bals |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| P. grand     |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| P. trem      |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Prunus pen.  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Quercus ell  |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Q. rubra     |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Tilia amer   | 12, 16<br>1     |             |                 |              |                |                       |                 |                      |             |              |   |
| Tsuga can    |                 |             |                 |              | 16             |                       |                 |                      |             |              |   |
| Thuja occ    |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Ulmus amer   |                 |             | 15              |              |                |                       |                 |                      |             |              |   |
| U. fulva     | (30)            |             |                 | 170<br>(135) |                |                       | 1               |                      |             |              |   |
|              |                 |             |                 |              |                |                       |                 |                      |             |              |   |
|              |                 |             |                 |              |                |                       |                 |                      |             |              |   |
|              |                 |             |                 |              |                |                       |                 |                      |             |              |   |
| Distance     | 20              | 21          | 23              | 23           | 12             | 9                     | 27              | 14                   | 6.0         | 28           |   |

$$\frac{148}{76}$$



## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.  | 1                        | 2                          | 3      | 4           | 5                          | 6      | 7                         | 8                          | 9                           | 10                          |
|--------------|--------------------------|----------------------------|--------|-------------|----------------------------|--------|---------------------------|----------------------------|-----------------------------|-----------------------------|
| Abies balsam |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Acer rubrum  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| A. sacchar.  | 25 <sup>50</sup><br>(35) | 2 40 <sup>21</sup><br>(38) | 4 (19) | 3 (40)      | 2 50 <sup>30</sup><br>(40) | 3 (12) | 4                         | 2                          | 4                           | 4 30 <sup>22</sup><br>(14)  |
| A. spicatum  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Betula lut.  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| B. papyrif   |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Carpinus car |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Fagus gran   |                          | 1                          | 180    | 210<br>(65) | 2                          | 1      | 45 <sup>15</sup><br>(170) | 50 <sup>200</sup><br>(170) | 165 <sup>265</sup><br>(215) | 180 <sup>225</sup><br>(160) |
| Ostrya virg  | (21)                     |                            |        |             |                            | (48)   |                           |                            |                             | 130                         |
| Picea glau   |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Pinus Bank   |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| P. resinosa  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| P. Strobus   |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Populus bals |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| P. grand     |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| P. trem      |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Prunus pen.  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Quercus ell  |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Q. rubra     |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Tilia amer   |                          |                            |        | 210         |                            |        |                           |                            | (17)                        |                             |
| Tsuga can    |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Thuja occ    |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| Ulmus amer   |                          |                            |        |             |                            |        |                           |                            |                             |                             |
| U. fulva     | 1                        |                            | (95)   |             |                            |        |                           |                            |                             |                             |
| Frax. am     |                          |                            | 40     |             | (19)                       |        |                           |                            |                             |                             |
| Distance     | 10                       | 25.5                       | 31.5   | 19.5        | 8.5                        | 21     | 23                        | 16.5                       | 13                          | 24.5                        |

$$\frac{16}{7} \frac{7}{4}$$



TREE DATA SUMMARY SHEET

Prob. 39

Northern Pine-Hardwoods

Station Number: 3091

| 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                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| A. sacchar                            | 27    | 42    | 28           | 13   | 1   | 3387      | 120   | 77.9     | 14        |           | 48.2         | 52.5      | 38.7      | 139.4     | 1394  |
| A. spicatu                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Betula lut                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| B. papyrif                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Carpinus c                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Fagus gran                            | 17    | 24    | 8            | 16   |     | 3467      | 14    | 9.1      | 1         |           | 30.4         | 30.0      | 39.6      | 100.0     | 1000  |
| Ostrya vir                            | 3     | 3     | 1            | 2    |     | 248       | 3     | 1.9      |           |           | 5.4          | 3.8       | 2.8       | 12.0      | 108   |
| Picea glau                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Pinus Bank                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| P. resinosa                           |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| P. Strobus                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Populus ba                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| P. grandid                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| P. tremulo                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Prunus <sup>virg</sup> <del>pen</del> |       |       |              |      |     |           |       |          | 1         |           |              |           |           |           |       |
| Quercus el                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Q. rubra                              | 1     | 1     | 1            |      | 1   | 410       |       |          | 1         |           | 1.8          | 1.3       | 4.7       | 7.8       | 47    |
| Tilia amer                            | 4     | 5     | 2            | 3    |     | 743       | 2     | 1.3      |           |           | 7.1          | 6.3       | 8.5       | 21.9      | 175   |
| Tsuga cana                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Thuja occi                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
| Ulmus amer                            | 1     | 1     | 1            |      |     | 15        | 2     | 1.3      | 1         |           | 1.8          | 1.3       | 0.2       | 3.3       | 24    |
| U. fulva                              | 1     | 2     | 1            | 1    |     | 189       | 11    | 7.1      | 3         |           | 1.8          | 2.5       | 2.2       | 6.5       | 52    |
| Fraxinus am                           | 2     | 2     | 1            | 1    |     | 300       | 2     | 1.3      | 4         |           | 3.6          | 2.5       | 3.4       | 9.5       | 76    |
| Corya cord                            |       |       |              |      |     |           |       |          | 4         |           |              |           |           |           |       |
| Prunus ser                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |       |
|                                       | 56    | 80    | 42           | 36   | 2   | 8759      | 154   | 99.9     |           |           | 100.1        | 100.2     | 100.1     | 300.4     | 2878  |

AVE. DIST. BTW'N TREES: 18.8      AVE B. A.: 109.5      # TREES/ACRE: 142      DOM./ACRE: 15,549

2850



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. /

*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*

*Panax trifol.*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 2

*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*

*Carex pa.*  
*Parthenocissus*  
*Carex M. L.*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 3

*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*

*Oryzopsis asperifolia*  
*Parthenocissis*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
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*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

 Stand No. 3091  
 Quadrat No. 5

*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. 3091  
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*

Carex pa.



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.  
Quadrat No.3091  
7

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <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. 3091  
Quadrat No. 8

*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*

Carex M L.

Oryzopsis asperifolia



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 9

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <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>Brachelytrum 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.3091  
10

*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. 3091  
Quadrat No. 1

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <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> |

*✓ Parthenocissus*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 309 1  
Quadrat No. 2

*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. 3091  
Quadrat No. 3

*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*

*Viola ovicarpa*  
*Pteris nodulosa*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.

Quadrat No.

3091

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*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 5

*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*

✓ *Viola cucullata*  
✓ *Viola pubescens*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
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*

*Podophyllum*  
✓ *haportea*  
✓ *sp. aparine*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 7

|                                   |                                |                                 |
|-----------------------------------|--------------------------------|---------------------------------|
| <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.  
Quadrat No. 8

*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*

*✓ Viola pubescens*



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No. 3091  
Quadrat No. 9

|                              |                         |                          |
|------------------------------|-------------------------|--------------------------|
| 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 |

✓ Erythronium alb.

Viola bicolor



## HERB FREQUENCY

## NORTHERN PINE-HARDWOODS

Stand No.

Quadrat No. 10

*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*

*Chaparral*

*Viola unguiculata*



## TABULATION FORM

## NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.                                      | P. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Total |
|--------------------------------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-------|
| HERBS:                                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Actaea pachypoda</i>                          | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1     |
| <i>Actaea rubra</i>                              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Adenocaulon bicolor</i>                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Adiantum pedatum</i>                          | ✓  |   |   |   | ✓ |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    | 1  | 5     |
| <i>Agrimonia grypsosepala</i>                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Allium tricoccum</i>                          | ✓  |   |   |   |   |   |   |   |   | ✓ |    |    |    |    |    |    |    |    |    |    | 1  | 5     |
| <i>Alnus incana</i>                              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Alnus rugosa</i>                              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Amphicarpa bracteata</i>                      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1     |
| <i>Anemone canadensis</i>                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Anemone cylindrica</i>                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Anemone quinquefolia</i>                      | ✓  |   |   |   |   | ✓ |   |   |   | ✓ |    | ✓  | ✓  |    | ✓  |    | ✓  | ✓  | ✓  |    | 8  | 40    |
| <i>Antennaria</i> sp.                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Apocynum androsaemifolium</i>                 |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Apocynum cannabinum</i>                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aquilegia canadensis</i>                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aralia hispida</i>                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aralia nudicaulis</i>                         | ✓  |   |   |   |   |   |   |   |   |   |    |    | ✓  |    |    |    |    |    |    |    | 1  | 5     |
| <i>Aralia racemosa</i>                           | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1     |
| <i>Arctostaphylos uva-ursi</i>                   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Arisaema atrorubens</i>                       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    |    |    | 1  | 5     |
| <i>Asarum canadense</i>                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Asclepias exaltata</i>                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aster cordifolius</i>                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aster lateriflorus</i>                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aster macrophyllus</i>                        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1     |
| <i>Aster prenanthoides</i>                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aster sagittifolius</i>                       | ✓  |   |   |   |   | ✓ |   |   |   |   |    |    |    |    |    |    |    |    |    |    | 1  | 5     |
| <i>Aster shortii</i>                             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Aster umbellatus</i>                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Athyrium filix-femina</i> <sup>angustum</sup> | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    |    |    | 1  | 5     |
| <i>Athyrium thelypteroides</i>                   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Boehmeria cylindrica</i>                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Botrychium lanceolatum</i>                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Botrychium matricariaefolium</i>              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Botrychium virginianum</i>                    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    | ✓  |    |    |    |    | 1  | 5     |
| <i>Brachyelytrum erectum</i>                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Bromus purgans</i>                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Campanula americana</i>                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Campanula rotundifolia</i>                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Cardamine pensylvanica</i>                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Carex albursina</i> m.l.                      | ✓  | ✓ | ✓ |   |   |   |   |   | ✓ |   |    |    |    |    |    |    |    |    |    |    | 2  | 10    |
| <i>Carex pensylvanica</i>                        | ✓  | ✓ | ✓ |   |   |   | ✓ |   |   |   |    |    |    |    |    |    |    |    |    |    | 2  | 10    |
| <i>Carex plantaginea</i>                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Caulophyllum thalictroides</i>                | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | ✓  | 1  | 5     |
| <i>Ceanothus ovatus</i>                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Celastrus scandens</i>                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Chimaphilia umbellata</i>                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Cicuta maculata</i>                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Circaea alpina</i>                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |
| <i>Circaea quadrisulcata</i>                     | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    | ✓  | ✓  | 3  | 15    |

latifolia



### TABULATION FORM

## NORTHERN PINE-HARDWOODS

Stand No. 309/

[illegible]



Stand No. 3091

| STATION NO.              | P. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | T |      |
|--------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|------|
| Fragaria vesca           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Galium aparine           | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    |    |    |    |   | 1 5  |
| Galium boreale           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Galium circaezans        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Galium concinnum         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Galium lanceolatum       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   | 1    |
| Galium triflorum         | ✓  |   |   |   |   | ✓ |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   | 1 5  |
| Gaultheria hispidula     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Gaylussacia baccata      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Geranium maculatum       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Gerardia pedicularia     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Geum canadense           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Geum rivale              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Gnaphalium obtusifolium  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Goodyera oblongifolia    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Goodyera pubescens       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Goodyera repens          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Habenaria bracteata      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Habenaria orbiculata     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hackelia virginiana      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Halenia deflexa          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hamamelis virginiana     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Helianthus strumosus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hepatica acutiloba       | ✓  | ✓ |   |   |   | ✓ | ✓ |   |   | ✓ |    |    | ✓  |    | ✓  |    |    |    |    |    | ✓  |   | 7 35 |
| Hepatica americana       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Heuchera richardsonii    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hieracium canadense      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hieracium scabrum        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hydrophyllum virginianum |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Hystrix patula           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ilex verticillata        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Impatiens biflora        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Impatiens pallida        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Isopyrum biternatum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Krigia biflora           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lactuca canadensis       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Laportea canadensis      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    |    |    | ✓  |   | 3 15 |
| Lathyrus ochroleucus     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lathyrus venosus         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ledum groenlandicum      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lilium michiganense      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Linnaea borealis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lithospermum canescens   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lobelia inflata          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lonicera canadensis      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lonicera hirsuta         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lonicera oblongifolia    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lonicera prolifera       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Lupinus perennis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Luzula acuminata         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Luzula multiflora        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |



# TABULATION FORM

# NORTHERN PINE-HARDWOODS

Stand No. 3091

| STATION NO.                                | P. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | T    |
|--------------------------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|------|
|                                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium annotinum                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium clavatum                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium complanatum                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium lucidulum                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium obscurum                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopodium tristachyum                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopus americanus                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lycopus uniflorus                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lysimachia ciliata                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Lysimachia quadrifolia                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Maianthemum canadense                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Malaxis unifolia                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Medeola virginiana                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Melampyrum lineare                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Menispermum canadense                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Milium effusum                             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Mitchella repens                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Mitella diphylla                           | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1    |
| Mitella nuda                               |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Monarda fistulosa                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Moneses uniflora                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Monotropa hypopithys                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Monotropa uniflora                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Nemopanthus mucronata                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Onoclea sensibilis                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Orchis spectabilis                         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1    |
| Oryzopsis asperifolia                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Oryzopsis racemosa                         | ✓  |   | ✓ |   |   |   |   | ✓ |   |   |    |    |    |    |    |    |    |    |    |    |    | 2 10 |
| Osmorhiza claytoni                         | ✓  | ✓ |   |   |   |   |   |   |   |   |    | ✓  | ✓  |    |    | ✓  |    | ✓  |    |    |    | 6 30 |
| Osmunda claytoniana                        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1    |
| Osmunda cinnamomea                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Osmunda regalis                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Oxalis montana                             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Panax quinquefolius                        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1    |
| Panax trifolius                            | ✓  | ✓ |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5  |
| Panicum latifolium                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Parietaria pensylvanica                    | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1    |
| Parthenocissus <sup>vittacea</sup> inserta | ✓  |   | ✓ | ✓ |   |   |   |   |   |   |    | ✓  |    |    |    |    |    |    |    |    |    | 3 15 |
| Pedicularis lanceolata                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Phlox divaricata                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Phlox pilosa                               |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Phyrma leptostachya                        | ✓  |   |   |   |   |   |   |   |   |   | ✓  |    |    |    |    |    |    |    |    |    |    | 1 5  |
| Pilea pumila                               |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Podophyllum peltatum                       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | ✓  |    |    |    |    | 1 5  |
| Polemonium reptans                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Polygala paucifolia                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Polygonatum canaliculatu                   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Polygonatum pubescens                      | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    | ✓  |    |    | 1 5  |
| Polypodium virginianum                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Potentilla arguta                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Potentilla simplex                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |



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|-----------------------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|---|------|
| Prenanthes alba                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Prunella vulgaris                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pteris pensylvanica <sup>nodulosa</sup> | ✓  |   |   |   |   |   |   |   |   |   |    |    |    | ✓  |    |    |    |    |    |    |    | 1 | 5    |
| Pteridium aquilinum                     | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   | 1    |
| Pyrola asarifolia                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pyrola elliptica                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pyrola minor                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pyrola rotundifolia                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pyrola secunda                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Pyrola virens                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ranunculus abortivus                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ranunculus recurvatus                   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ranunculus septentrional                |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rhus radicans                           |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rhus typhina                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ribes americanum                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ribes cynosbati                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ribes lacustre                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Ribes triste                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rosa sp.                                |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus idaeus                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus parviflorus                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus hispidus                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus - blackberry                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus - dewberry                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Rubus - raspberry                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Salix sp.                               |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Sambucus canadensis                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Sambucus pubens                         | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Sanguinaria canadensis                  | ✓  |   |   |   | ✓ | ✓ | ✓ |   |   | ✓ | ✓  | ✓  |    |    |    | ✓  |    |    |    |    | ✓  | 7 | 35   |
| Sanicula gregaria                       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Sanicula marilandica                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Schizachne purpurascens                 |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Scutellaria lateriflora                 |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Senecio aureus                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Shepherdia canadensis                   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Smilacina racemosa                      | ✓  | ✓ | ✓ |   |   |   |   |   |   | ✓ | ✓  | ✓  |    | ✓  | ✓  |    |    |    |    |    |    |   | 9 45 |
| Smilacina stellata                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Smilax ecirrhata                        | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   | 1    |
| Smilax herbacea                         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Smilax hispida                          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Solidago canadensis                     |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Solidago flexicaulis                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Solidago ulmifolia <sup>latifolia</sup> | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   | 1    |
| Spiraea alba                            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Stellaria longifolia                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Streptopus amplexifolius                |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Streptopus roseus                       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Symphoricarpos albus                    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Taxus canadensis                        |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |
| Thalictrum dioicum                      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |   |      |



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|--------------------------|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|------|
| Trientalis borealis      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Trillium cernuum         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Trillium grandiflorum    | ✓  | ✓ |   |   |   | ✓ |   |   |   |   |    | ✓  |    | ✓  |    |    |    | ✓  |    |    |    | 5 25 |
| Uvularia grandiflora     | ✓  |   |   |   |   |   |   | ✓ |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5  |
| Uvularia sessilifolia    |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Vaccinium angustifolium  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Vaccinium myrtilloides   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Veronicastrum virginicum |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viburnum acerifolium     | ✓  |   |   |   |   |   |   | ✓ |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5  |
| Viburnum rafinesquianum  |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viburnum lentago         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola adunca             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola blanda             |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola canadensis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola conspersa          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola cucullata          | ✓  |   |   |   |   | ✓ |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 1 5  |
| Viola pensylvanica       |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola incognita          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola pallens            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Viola pubescens          | ✓  |   | ✓ | ✓ |   | ✓ |   |   |   | ✓ |    |    |    |    |    |    |    |    | ✓  |    |    | 5 25 |
| Viola renifolia          |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Vitis aestivalis         |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Vitis riparia            |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Waldsteinia fragarioides |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Xanthoxylum americanum   |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Zizia aurea              |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Additional species:      |    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |      |
| Silvery spleinwart       | ✓  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 5    |
| Viola eriocarpa          | ✓  |   |   |   |   |   |   |   |   |   |    |    | ✓  |    | ✓  |    |    | ✓  | ✓  | ✓  |    | 5 25 |



## PRESENCE LIST

## NORTHERN PINE-HARDWOODS

STAND NO. 3091

Abies balsamea  
 ✓ Acer rubrum  
 ✓ Acer saccharum  
 Acer spicatum  
 Amelanchier sp.  
 Betula lutea  
 Betula papyrifera  
 Caprinus caroliniana  
 ✓ Carya cordiformis  
 Crataegus 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  
 ✓ Ulmus Thomasii

## HERBS AND SHRUBS

✓ 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 phytolaccoides  
 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 *laciniata*  
 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  
 ✓ Lappula 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 americanus  
 Lycopodium uniflora  
 Lysimachia quadrifolia  
 Maianthemum canadense



Melampyrum lineare  
 Mitchellia repens  
~~Mitella~~ Mitella diphylla  
 Mitella nuda  
 Monarda fistulosa  
 Moneses uniflora  
 Monotropa uniflora  
 Myrica asplenifolia  
 Onoclea sensibilis  
 Oryzopsis asperifolia  
~~Osmorhiza~~ Osmorhiza claytoni  
 Osmunda cinnamomea  
~~Osmunda~~ Osmunda claytoniana  
 Oxalis montana  
~~Panax~~ Panax quinquefolia  
~~Parietaria~~ Parietaria pennsylvanica  
~~Parthenocissus~~ Parthenocissus vitacea  
 Pedicularis lanceolata  
 Phyrma leptostachya  
~~Podophyllum~~ Podophyllum peltatum  
 Polemonium reptans  
 Polygala pauciflora  
 Polygonatum commutatum  
~~Polygonatum~~ Polygonatum pubescens  
 Potentilla simplex  
 Prenanthes alba  
~~Pteretis~~ Pteretis nodulosa  
~~Pteridium~~ 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~~ Sambucus pubens  
~~Sanguinaria~~ Sanguinaria canadensis  
~~Sanicula~~ Sanicula gregaria  
 Schizachne purpurascens  
 Scutellaria lateriflora  
 Shepherdia canadensis  
~~Smilacina~~ Smilacina racemosa  
 Smilacina stellata  
~~Smilax~~ Smilax ecirrhata

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

## Additional Species:

Panax tri  
 Silver spleenwort  
 Eupatorium rugosum  
 Dryopteris Goldiana  
 Orchis spectabilis  
 Erythronium Sp