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## **Site 6029 (Boreal Stand 29): Nonesuch, Porcupine Mt. State Park, Ontonagon County, Michigan, Township 51N, Range 42W, Section 34. 1955-08-12**

[s.l.]: [s.n.], 1955-08-12

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[Site 6029]

Data Form No. 20

Plant Ecology Research

Univ. of Wisconsin

## STAND RECORD

## FORESTS

Stand No. 29

Name: Nonesuch, Porcupine Mt. State Park

Locality:

County: Ontonagon, N. Michigan

T: 51 N R: 42 W Sec: SE 34

Date: Aug 13, 1955

Observers:

Size of Stand: 40 acres

PFM

Size of Area Sampled:

Forest Type: Spruce-fir-hardwood

Soil Type:

Topography: gently rolling

Slope:

Directions

## Condition of Stand:

Logged for pine  
 Most of reprod. is maple + hophornbeam but there is considerable spruce + Ab reprod. - Ab  
 is suffering from deer browsing.  
 Perched water table - also creek running through  
 Stand was once more to spruce-fir but windthrow + die-off has permitted  
 a gradual conversion to hardwoods - shown by various ages of hardwoods  
 but all spruce seems quite old. - over 100 yrs.

## Open Grown Trees:

## % Canopy:

## 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              | _____ | _____ | _____ | _____ | _____ | _____ | _____     | _____    | _____  |

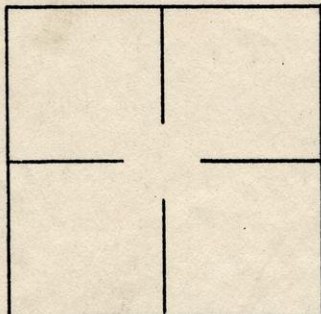
## DEPTH

## CHARACTERISTICS (Color, Texture, Structure, etc.)

|                | #1 Little 1 1/2" 1" ferment | #2 Little 1" 1" ferment     | #3 1 1/2" little 1" ferment |
|----------------|-----------------------------|-----------------------------|-----------------------------|
| A <sub>0</sub> | 3" black crumbly            | 3" black crumbly            | 3" black crumbly            |
| A <sub>1</sub> | 2" grey-brown clayish       | 2 1/2" grey brown - clayish | 1" grey-black               |
| A <sub>2</sub> | 6" + red crumbly clay       | 6" + reddish crumbly clay   | 6" + grey brown clay        |
| B              |                             |                             |                             |

## Parent Material:

## Map:



LICHENS OF GREAT LAKES SPRUCE-FIR COMMUNITIES  
NORTHERN MICHIGAN  
Ontonagon County



Nonesuch, Porcupine Mountains State Park  
Maple, white spruce, & balsam. Over 100 yrs.  
Gently rolling, high-perched water table - damp  
situation, logged for pine. Formerly spruce fir,  
windthrow and die-off have permitted gradual  
conversion to hardwoods.

August 12, 1955. Coll. Paul F. Maycock.

Plant Ecology Research  
TREE DATA SUMMARY SHEET

University of Wisconsin

113.2

~~Northern Pine/Hardwoods~~  
*Spruce-fir*

Station Number: 29 - 2294

| 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.  | N. Limit Index |
|----------------------------------------|-------|-------|--------------|------|-----|-----------|-------|----------|-----------|-----------|--------------|-----------|-----------|-----------|--------|----------------|
|                                        |       |       | -80          | -320 | 321 |           |       |          |           |           |              |           |           |           |        |                |
| 284.4<br>Mid range Index<br>Abies bals | 16    | 17    |              |      |     | 1138      | 28    | 17.5     |           | 40.0      | 13.6         | 10.6      | 7.4       | 31.6      | 221.2  | 252.8          |
| 44.2<br>Acer rubru                     | 11    | 12    |              |      |     | 787       | 17    | 10.6     |           | 27.5      | 9.3          | 7.5       | 5.2       | 22.1      | 132.6  | 110.5          |
| 419.2<br>A. sacchar                    | 35    | 68    |              |      |     | 4966      | 87    | 54.4     |           | 87.5      | 29.7         | 42.5      | 32.6      | 104.8     | 1048.0 | 524.0          |
| 9.0<br>A. spicatu                      |       |       |              |      |     |           |       |          |           |           |              |           |           |           | 1.0    | 1.0            |
| 49.8<br>Betula lut                     | 3     | 3     |              |      |     | 597       |       |          |           | 7.5       | 2.5          | 1.9       | 3.9       | 8.3       | 66.4   | 41.5           |
| B. papyrif                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| Carpinus c                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| Fagus gran                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| 9.9<br>Ostrya vir                      | 2     | 2     |              |      |     | 66        | 2     | 1.3      |           | 5.0       | 1.7          | 1.2       | 0.4       | 3.3       | 29.7   | 9.9            |
| 560.0<br>Picea glau                    | 19    | 24    |              |      |     | 3792      | 4     | 2.5      |           | 47.5      | 16.1         | 15.0      | 24.9      | 56.0      | 336.0  | 560.0          |
| Pinus Bank                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| P. resinosa                            |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| 68.6<br>P. Strobus                     | 4     | 4     |              |      |     | 592       |       |          |           | 10.0      | 3.4          | 2.5       | 3.9       | 9.8       | 49.0   | 58.8           |
| Populus ba                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| P. grandid                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| 87.2<br>P. tremulo                     | 4     | 4     |              |      |     | 766       |       |          |           | 10.0      | 3.4          | 2.5       | 5.0       | 10.9      | 21.8   | 98.1           |
| 6.6<br>Prunus serot.<br>pea            | 1     | 1     |              |      |     | 112       |       |          |           | 2.5       | 0.8          | 0.6       | 0.8       | 2.2       | 8.8    | 6.6            |
| Quercus el                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| 13.5<br>Q. rubra                       | 1     | 1     |              |      |     | 190       |       |          |           | 2.5       | 0.8          | 0.6       | 1.3       | 2.7       | 16.2   | 10.8           |
| 39.2<br>Tilia amer                     | 5     | 5     |              |      |     | 364       | 2     | 1.3      |           | 12.5      | 4.2          | 3.2       | 2.4       | 9.8       | 78.4   | 49.0           |
| 35.7<br>Tsuga cana                     | 2     | 2     |              |      |     | 340       | 6     | 3.8      |           | 5.0       | 1.7          | 1.2       | 2.2       | 5.1       | 40.8   | 10.2           |
| 85.6<br>Thuja occi                     | 5     | 6     |              |      |     | 419       | 10    | 6.3      |           | 12.5      | 4.3          | 3.7       | 2.7       | 10.7      | 74.9   | 74.9           |
| Ulmus amer                             |       |       |              |      |     |           |       |          |           |           |              |           |           |           |        |                |
| 22.8<br>U. fulva                       | 3     | 3     |              |      |     | 187       | 2     | 1.3      |           | 7.5       | 2.5          | 1.9       | 1.3       | 5.7       | 45.6   | 39.9           |
| 36.6<br>Frax. nig.                     | 2     | 3     |              |      |     | 380       | 2     | 1.3      |           | 5.0       | 1.7          | 1.9       | 2.5       | 6.1       | 36.6   | 42.7           |
| 21.8<br>Frax. amer                     | 5     | 5     |              |      |     | 524       |       |          |           | 12.5      | 4.3          | 3.2       | 3.4       | 10.9      | 87.2   | 21.8           |
| TOTALS                                 |       | 160   |              |      |     | 15220     | 160   | 100.0    |           | 295.0     | 100.0        | 100.0     | 100.0     | 300.0     | 2294   | 1912.5         |

AVE. DIST. BTW'N TREES:

10.7

AVE. B. A.:

95.1

# TREES/ACRE:

380

DOM./ACRE:

36,138

## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 29 (1)

| STATION NO.               | 1        | 2     | 3                        | 4      | 5          | 6        | 7        | 8                     | 9         | 10       |
|---------------------------|----------|-------|--------------------------|--------|------------|----------|----------|-----------------------|-----------|----------|
| Abies balsam              | 9 1/2 46 |       |                          |        |            | 21 105   |          |                       | 7 72 7 42 |          |
| Acer rubrum               |          | 14 45 |                          |        |            | 2 1/2 59 | 9 1/2 88 |                       |           |          |
| A. sacchar.               | 7 1/2 45 | 14 68 | 3 72 9 1/2 126 11 1/2 80 |        |            |          |          | 12 78 9 1/2 31 11 105 |           |          |
| A. spicatum               |          |       | 8 62                     |        |            |          |          | 18 1/2 70             |           |          |
| Betula lut.               |          |       |                          |        |            |          |          |                       |           |          |
| B. papyrif                |          |       |                          |        |            |          |          |                       |           |          |
| Carpinus car              |          |       |                          |        |            |          |          |                       |           |          |
| Fagus gran                |          |       |                          |        |            |          |          |                       |           |          |
| Ostrya virg               |          |       |                          |        | 16 59      |          |          |                       |           |          |
| Picea glau                |          | 3 140 | 10 170                   | 7 195  |            |          | 9 155    |                       |           | 5 1/2 73 |
| Pinus Bank                |          |       |                          |        |            |          | 19 76    |                       |           |          |
| P. resinosa               |          |       |                          |        |            |          |          |                       |           |          |
| P. Strobus                |          |       |                          |        |            |          |          |                       |           |          |
| Populus bals              |          |       |                          |        |            |          |          |                       |           |          |
| P. grand                  |          |       |                          |        |            |          |          |                       |           |          |
| P. trem                   |          |       |                          |        |            |          |          |                       | 6 1/2 236 |          |
| Prunus pen.               |          |       |                          |        |            |          |          |                       |           |          |
| Quercus ell               |          |       |                          |        |            |          |          |                       |           |          |
| Q. rubra                  |          |       |                          |        |            |          |          |                       |           |          |
| Tilia amer                | 11 58    | 3 65  |                          |        |            |          |          |                       |           |          |
| Tsuga can                 |          |       |                          |        | 12 1/2 100 |          |          |                       |           |          |
| Thuja occ                 | 9 64     |       |                          |        |            | 6 1/2 55 | 7 1/2 64 |                       |           |          |
| Ulmus amer                |          |       |                          |        |            |          |          |                       |           |          |
| U. fulva                  |          |       |                          |        |            |          |          |                       |           |          |
| Trax. sp. not black white |          |       |                          |        |            |          |          | 9 105                 |           |          |
| Litter                    | 2 1/2    | 1"    | 4"                       | 5      | 2          | 3 1/2    | 1 1/2    | 2                     | 1 1/2     | 3 1/2    |
| Canopy                    | 45       | 60    | 65                       | 70     | 85         | 90       | 70       | 75                    | 70        | 80       |
| Distance                  | 37       | 34    | 30 1/2                   | 45 1/2 | 51 1/2     | 37       | 55 1/2   | 38                    | 35        | 37       |

## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 29 (2)

| STATION NO.                  | 1      | 2   | 3      | 4      | 5     | 6      | 7     | 8   | 9     | 10     |     |     |        |     |
|------------------------------|--------|-----|--------|--------|-------|--------|-------|-----|-------|--------|-----|-----|--------|-----|
| Abies balsam                 |        |     |        |        |       |        | 9 1/2 | 64  | 9     | 82     | 8   | 76  | 11 1/2 | 66  |
| Acer rubrum                  | 6'     | 64  | 6 1/2  | 82     |       |        |       |     |       |        |     |     | 9      | 105 |
| A. sacchar.                  | 6'     | 31  | 11 1/2 | 76     | 12    | 48     | 22    | 36  | 20    | 44     | 11  | 79  | 30     |     |
|                              |        | 16  | 65     | 16     | 84    | 14     | 77    | 21  | 87    | 11 1/2 | 41  | 16  | 40     |     |
| A. spicatum                  |        | 12  | 74     |        |       |        |       |     |       | 4      | 28  |     |        |     |
| Betula lut.                  |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| B. papyrif                   |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Carpinus car                 |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Fagus gran                   |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Ostrya virg                  |        |     |        | 4'     | 27    |        |       |     |       |        |     |     |        |     |
| Picea glau                   |        |     | 8      | 290    | 9 1/2 | 239    | 3     | 196 |       |        | 15  | 212 | 11     | 49  |
|                              |        |     |        |        |       |        | 4     | 149 |       |        |     |     |        |     |
| Pinus Bank                   |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| P. resinosa                  |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| P. Strobis                   | 9 1/2  | 289 |        |        |       |        |       |     |       |        |     |     |        |     |
| Populus bals                 |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| P. grand                     |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| P. trem                      | 10     | 60  |        |        |       |        |       |     |       |        | 18  | 310 |        |     |
| Prunus pen. <sup>serot</sup> |        |     |        |        |       |        |       |     |       |        |     |     | 8'     | 112 |
| Quercus ell                  |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Q. rubra                     |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Tilia amer                   |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Tsuga can                    |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Thuja occ                    |        |     | 1 1/2  | 82     |       |        |       |     |       | 8 1/2  | 106 |     |        |     |
| Ulmus amer                   |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| U. fulva                     |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
|                              |        |     |        |        |       |        |       |     |       |        |     |     |        |     |
| Litter                       | 3      | 3   | 3 1/2  | 2 1/2  | 3     | 1"     | 4     | 3   | 2 1/2 | 3      |     |     |        |     |
| Canopy                       | 75     | 85  | 60     | 55     | 65    | 70     | 85    | 30  | 75    | 55     |     |     |        |     |
| Distance                     | 31 1/2 | 46  | 37 1/2 | 49 1/2 | 48    | 17 1/2 | 38    | 60  | 48    | 36     |     |     |        |     |

## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 29(3)

| STATION NO.  | 1     | 2      | 3      | 4      | 5   | 6      | 7      | 8      | 9     | 10     |
|--------------|-------|--------|--------|--------|-----|--------|--------|--------|-------|--------|
| Abies balsam | 9 1/2 | 112    |        | 23     | 85  | 17     | 57     | 9 1/2  | 46    |        |
| Acer rubrum  | 7     | 36     | 10 1/2 | 65     |     |        |        |        |       |        |
| A. sacchar.  |       | 8 1/2  | 19     | 19     | 60  | 11 1/2 | 52     | 12 1/2 | 55    | 11 1/2 |
|              |       | 3      | 22     | 16     | 32  |        |        | 121    | 75    | 19     |
| A. spicatum  |       |        |        | 9 1/2  | 126 |        |        | 11 1/2 | 88    |        |
| Betula lut.  |       |        |        |        | 11  | 115    |        |        |       | 16     |
| B. papyrif   |       |        |        |        |     |        |        |        |       | 440    |
| Carpinus car |       |        |        |        |     |        |        |        |       |        |
| Fagus gran   |       |        |        |        |     |        |        |        |       |        |
| Ostrya virg  |       |        |        |        |     |        |        |        |       |        |
| Picea glau   |       |        | 5      | 138    |     |        | 11     | 65     | 8     | 30     |
| Pinus Bank   |       |        |        |        |     |        |        |        |       | 19     |
| P. resinosa  |       |        |        |        |     |        |        |        |       | 185    |
| P. Strobus   | 9 1/2 | 135    | 10     | 48     |     |        |        |        |       |        |
| Populus bals |       |        |        |        |     |        |        |        |       |        |
| P. grand     |       |        |        |        |     |        |        |        |       |        |
| P. trem      |       |        |        |        |     |        |        |        |       |        |
| Prunus pen.  |       |        |        |        |     |        |        |        |       |        |
| Quercus ell  |       |        |        |        |     |        |        |        |       |        |
| Q. rubra     |       |        |        |        |     |        |        |        | 2     | 190    |
| Tilia amer   |       |        | 16     | 98     |     | 2 1/2  | 60     |        |       |        |
| Tsuga can    |       |        |        |        |     |        |        |        |       |        |
| Thuja occ    | 3     | 48     |        |        |     |        |        |        |       |        |
| Ulmus amer   |       |        |        |        |     |        |        |        |       |        |
| U. fulva     |       | 14 1/2 | 127    |        |     |        |        | 13     | 85    | 15     |
| Frax nig     |       |        | 16     | 58     |     |        | 6      | 102    | 13    | 85     |
|              |       |        |        |        |     |        | white  | white  | white | 8      |
| Litter       | 2"    | 1/2    | 4      | 1"     | 1   | 2 1/2  | 1 1/2  | 1      | 2     | 1 1/2  |
| Canopy       | 65    | 45     | 60     | 85     | 75  | 50     | 75     | 55     | 60    | 45     |
| Distance     | 29    | 36 1/2 | 47     | 67 1/2 | 42  | 54 1/2 | 47 1/2 | 42 1/2 | 40    | 53 1/2 |

## POINT RECORD TREES

## NORTHERN PINE-HARDWOODS

Stand No. 29 (4)

| STATION NO.     | 1             | 2               | 3          | 4                  | 5          | 6             | 7                   | 8               | 9     | 10            |
|-----------------|---------------|-----------------|------------|--------------------|------------|---------------|---------------------|-----------------|-------|---------------|
| Abies balsam    |               |                 | 9 1/2 102  |                    |            |               |                     | 14 1/2 47       | 8 34  | 19 32         |
| Acer rubrum     |               | 7 1/2 55        |            |                    | 11 55      | 8 58          |                     |                 | 7 70  |               |
| A. sacchar.     | 4 20<br>14 72 | 11 58<br>10 120 | 15 50      | 4 59<br>17 96      | 13 98      | 4 31<br>11 49 | 9 1/2 220           | 9 105<br>11 126 | 14 35 | 9 29<br>11 38 |
| A. spicatum     |               |                 |            | 14 1/2 65          |            |               |                     |                 |       |               |
| Betula lut.     |               |                 | 16 42      |                    |            |               |                     |                 |       |               |
| B. papyrif      |               |                 |            |                    |            |               |                     |                 |       |               |
| Carpinus car    |               |                 |            |                    |            |               |                     |                 |       |               |
| Fagus gran      |               |                 |            |                    |            |               |                     |                 |       |               |
| Ostrya virg     |               |                 |            |                    |            |               |                     |                 |       |               |
| Picea glau      |               |                 |            | 3 22<br>16 1/2 200 | 10 1/2 118 | 7 126         | 4 220<br>10 1/2 230 | 18 1/2 135      |       |               |
| Pinus Bank      |               |                 |            |                    |            |               |                     |                 |       |               |
| P. resinosa     |               |                 |            |                    |            |               |                     |                 |       |               |
| P. Strobus      |               | 12 1/2 120      |            |                    |            |               |                     |                 |       |               |
| Populus bals    |               |                 |            |                    |            |               |                     |                 |       |               |
| P. grand        |               |                 |            |                    |            |               |                     |                 |       |               |
| P. trem         |               |                 |            |                    |            |               |                     |                 | 9 160 |               |
| Prunus pen.     |               |                 |            |                    |            |               |                     |                 |       |               |
| Quercus ell     |               |                 |            |                    |            |               |                     |                 |       |               |
| Q. rubra        |               |                 |            |                    |            |               |                     |                 |       |               |
| Tilia amer      | 10 1/2 83     |                 |            |                    |            |               |                     |                 |       |               |
| Tsuga can       |               |                 | 11 1/2 240 |                    |            |               |                     |                 |       |               |
| Thuja occ       |               |                 |            |                    |            |               |                     |                 |       |               |
| Ulmus amer      |               |                 |            |                    |            |               |                     |                 |       |               |
| U. fulva        |               |                 |            |                    |            |               |                     |                 |       | 3 1/2 40      |
| Frax. sp. white | 8 37          |                 |            |                    |            |               | 13 1/2 195<br>Wash  |                 |       |               |
| Litter          | 2             | 3               | 2 1/2      | 3                  | 2          | 2 1/2         | 1                   | 2               | 1 1/2 | 2 1/2         |
| Canopy          | 80            | 40              | 55         | 65                 | 60         | 65            | 70                  | 35              | 20    | 45            |
| Distance        | 36 1/2        | 41 1/2          | 52         | 28 1/2             | 51         | 30            | 37 1/2              | 53              | 38    | 43            |

Av. canopy - 62.9

Av. litter - 2.4"

POINT RECORD TREES *SAPLINGS*

## NORTHERN PINE-HARDWOODS

Stand No. 29 (1)

| STATION NO.  | 1       | 2               | 3           | 4       | 5           | 6            | 7      | 8        | 9          | 10          |
|--------------|---------|-----------------|-------------|---------|-------------|--------------|--------|----------|------------|-------------|
| Abies balsam | 4 1/2   |                 | 11          | 7 1/2   |             |              | 9<br>4 | 11 1/2   |            |             |
| Acer rubrum  |         |                 |             |         | 3<br>3 1/2  | 4            | 7      |          |            | 8<br>5      |
| A. sacchar.  |         | 8 1/2<br>14 1/2 | 9 1/2<br>10 | 4<br>10 | 8<br>11 1/2 | 14<br>15 1/2 | 18     | 11<br>11 | 7<br>9 1/2 | 4 1/2<br>17 |
| A. spicatum  |         |                 |             |         |             |              |        |          |            |             |
| Betula lut.  |         |                 |             |         |             |              |        |          |            |             |
| B. papyrif   |         |                 |             |         |             |              |        |          |            |             |
| Carpinus car |         |                 |             |         |             |              |        |          |            |             |
| Fagus gran   |         |                 |             |         |             |              |        |          |            |             |
| Ostrya virg  |         |                 |             |         |             |              |        |          |            |             |
| Picea glau   |         |                 |             |         |             | 14 1/2       |        |          |            |             |
| Pinus Bank   |         |                 |             |         |             |              |        |          |            |             |
| P. resinosa  |         |                 |             |         |             |              |        |          |            |             |
| P. Strobus   |         |                 |             |         |             |              |        |          |            |             |
| Populus bals |         |                 |             |         |             |              |        |          |            |             |
| P. grand     |         |                 |             |         |             |              |        |          |            |             |
| P. trem      |         |                 |             |         |             |              |        |          |            |             |
| Prunus pen.  |         |                 |             |         |             |              |        |          |            |             |
| Quercus ell  |         |                 |             |         |             |              |        |          |            |             |
| Q. rubra     |         |                 |             |         |             |              |        |          |            |             |
| Tilia amer   |         |                 |             |         |             |              |        |          |            |             |
| Tsuga can    |         |                 |             | 8 1/2   |             | 3<br>15      |        |          |            |             |
| Thuja occ    | 4<br>15 |                 |             |         |             |              |        |          | 20         |             |
| Ulmus amer   |         |                 |             |         |             |              |        |          |            |             |
| U. fulva     |         |                 |             |         |             |              |        |          |            |             |
| Frax nig     | 13 1/2  |                 |             |         |             |              |        |          |            |             |
|              |         |                 |             |         |             |              |        |          |            |             |
|              |         |                 |             |         |             |              |        |          |            |             |
| Distance     | 37      | 42 1/2          | 36 1/2      | 44      | 36          | 36 1/2       | 38     | 46 1/2   | 46 1/2     | 34 1/2      |

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NORTHERN PINE-HARDWOODS

Stand No. 29 (2)

| STATION NO.  | 1      | 2        | 3        | 4        | 5      | 6          | 7           | 8           | 9       | 10      |
|--------------|--------|----------|----------|----------|--------|------------|-------------|-------------|---------|---------|
| Abies balsam | 7      | 7        | 8<br>13  |          |        | 2          | 8 1/2       | 3<br>1      |         |         |
| Acer rubrum  | 17     |          |          |          |        |            | 12<br>8 1/2 | 12 1/2<br>5 |         | 12      |
| A. sacchar.  | 7<br>9 | 11<br>18 | 12<br>14 | 16<br>13 | 5<br>4 | 2 1/2<br>5 | 10 1/2<br>8 |             | 16<br>5 | 1       |
| A. spicatum  |        |          |          |          |        |            |             |             |         |         |
| Betula lut.  |        |          |          |          |        |            |             |             |         |         |
| B. papyrif   |        |          |          |          |        |            |             |             |         |         |
| Carpinus car |        |          |          |          |        |            |             |             |         |         |
| Fagus gran   |        |          |          |          |        |            |             |             |         |         |
| Ostrya virg  |        |          |          |          |        |            |             |             |         |         |
| Picea glau   |        |          |          | 10       |        |            |             |             |         |         |
| Pinus Bank   |        |          |          |          |        |            |             |             |         |         |
| P. resinosa  |        |          |          |          |        |            |             |             |         |         |
| P. Strobus   |        |          |          |          |        |            |             |             |         |         |
| Populus bals |        |          |          |          |        |            |             |             |         |         |
| P. grand     |        |          |          |          |        |            |             |             |         |         |
| P. trem      |        |          |          |          |        |            |             |             |         |         |
| Prunus pen.  |        |          |          |          |        |            |             |             |         |         |
| Quercus ell  |        |          |          |          |        |            |             |             |         |         |
| Q. rubra     |        |          |          |          |        |            |             |             |         |         |
| Tilia amer   |        |          |          |          |        |            |             |             | 26      |         |
| Tsuga can    |        |          |          |          |        |            |             |             |         |         |
| Thuja occ    |        |          | 10 1/2   |          |        |            |             |             | 21      | 16<br>7 |
| Ulmus amer   |        |          |          |          |        |            |             |             |         |         |
| U. fulva     |        |          |          |          |        |            |             |             |         |         |
|              |        |          |          |          |        |            |             |             |         |         |
|              |        |          |          |          |        |            |             |             |         |         |
|              |        |          |          |          |        |            |             |             |         |         |
| Distance     | 40     | 50       | 43 1/2   | 46       | 16 1/2 | 23 1/2     | 38          | 21 1/2      | 68      | 36      |

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NORTHERN PINE-HARDWOODS

Stand No. 29(3)

| STATION NO.  | 1  | 2       | 3   | 4      | 5       | 6       | 7       | 8       | 9       | 10       |          |         |     |
|--------------|----|---------|-----|--------|---------|---------|---------|---------|---------|----------|----------|---------|-----|
| Abies balsam | 17 | 14<br>8 | 1   | 21     |         |         |         |         |         | 13½      |          |         |     |
| Acer rubrum  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| A. sacchar.  | 18 | 16      | 3   | 3<br>4 | 9½<br>7 | 8<br>20 | 6<br>12 | 5<br>12 | 4<br>17 | 4½<br>9½ | 9<br>10½ | 13<br>9 | 14½ |
| A. spicatum  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Betula lut.  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| B. papyrif   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Carpinus car |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Fagus gran   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Ostrya virg  | 14 |         |     |        |         | 4       |         |         |         |          |          |         |     |
| Picea glau   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Pinus Bank   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| P. resinosa  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| P. Strobus   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Populus bals |    |         |     |        |         |         |         |         |         |          |          |         |     |
| P. grand     |    |         |     |        |         |         |         |         |         |          |          |         |     |
| P. trem      |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Prunus pen.  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Quercus ell  |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Q. rubra     |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Tilia amer   |    |         | 14½ |        |         |         |         |         |         |          |          |         |     |
| Tsuga can    |    |         |     |        | 11      |         |         |         |         |          |          |         |     |
| Thuja occ    | 6  |         |     |        |         |         |         |         |         |          |          |         |     |
| Ulmus amer   |    |         |     |        |         |         |         |         |         |          |          |         |     |
| U. fulva     |    |         | 14½ |        |         |         |         |         |         |          |          |         |     |
| Trax nig     |    | 12½     |     |        |         |         |         |         |         |          |          |         |     |
|              |    |         |     |        |         |         |         |         |         |          |          |         |     |
|              |    |         |     |        |         |         |         |         |         |          |          |         |     |
| Distance     | 55 | 50½     | 33  | 49     | 47½     | 27      | 30      | 45      | 33½     | 50       |          |         |     |

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NORTHERN PINE-HARDWOODS

Stand No. 29(4)

| STATION NO.  | 1        | 2        | 3        | 4         | 5            | 6       | 7         | 8          | 9        | 10      |
|--------------|----------|----------|----------|-----------|--------------|---------|-----------|------------|----------|---------|
| Abies balsam | 7        |          |          |           | 13½          |         | 10½<br>14 | 14½<br>14½ | 9        | 4       |
| Acer rubrum  |          |          | 18       |           |              | 9½      |           |            | 15<br>12 |         |
| A. sacchar.  | 6½<br>12 | 11<br>14 | 19<br>17 | 3<br>5 17 | 15<br>13 12½ | 9½<br>8 | 1<br>7 13 |            |          | 3<br>12 |
| A. spicatum  |          |          |          |           |              |         |           |            |          |         |
| Betula lut.  |          |          |          |           |              |         |           |            |          |         |
| B. papyrif   |          |          |          |           |              |         |           |            |          |         |
| Carpinus car |          |          |          |           |              |         |           |            |          |         |
| Fagus gran   |          |          |          |           |              |         |           |            |          |         |
| Ostrya virg  |          |          |          |           |              |         |           |            |          |         |
| Picea glau   |          | 6        |          |           |              |         |           |            |          | 2½      |
| Pinus Bank   |          |          |          |           |              |         |           |            |          |         |
| P. resinosa  |          |          |          |           |              |         |           |            |          |         |
| P. Strobus   |          |          |          |           |              |         |           |            |          |         |
| Populus bals |          |          |          |           |              |         |           |            |          |         |
| P. grand     |          |          |          |           |              |         |           |            |          |         |
| P. trem      |          |          |          |           |              |         |           |            |          |         |
| Prunus pen.  |          |          |          |           |              |         |           |            |          |         |
| Quercus ell  |          |          |          |           |              |         |           |            |          |         |
| Q. rubra     |          |          |          |           |              |         |           |            |          |         |
| Tilia amer   |          |          |          |           |              |         |           |            |          |         |
| Tsuga can    |          |          | 15       | 14½       |              |         |           |            |          |         |
| Thuja occ    |          |          |          |           |              |         |           | 9, 19      |          |         |
| Ulmus amer   |          |          |          |           |              |         |           |            |          |         |
| U. fulva     |          |          |          |           |              |         |           |            | 13       |         |
|              |          |          |          |           |              |         |           |            |          |         |
|              |          |          |          |           |              |         |           |            |          |         |
|              |          |          |          |           |              |         |           |            |          |         |
| Distance     | 36½      | 40½      | 69       | 39½       | 54           | 34      | 38½       | 57         | 49       | 21½     |

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

|                              | P. |  |  |   |  |  |  |  |  | 10. |  |  |  |   |  |  | 20. |     |      |
|------------------------------|----|--|--|---|--|--|--|--|--|-----|--|--|--|---|--|--|-----|-----|------|
| Rubus (dewberry)             |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Rubus (raspberry)            | ✓  |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     | 1    |
| Rumex acetosella             |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Salix spp.                   |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Sambucus canadensis          |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Sambucus pubens              | ✓  |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     | 1    |
| Sanguinaria canadensis       |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Sanicula gregaria            |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Sanicula marilandica         | ✓  |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     | 1    |
| Satureja vulgaris            |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Saxifraga pensylvanica       |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Schizachne purpurascens      |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Scutellaria epilobiifolia    |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Scutellaria lateriflora      |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Senecio aureus               |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Shepherdia canadensis        |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Sium suave                   |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Smilacina racemosa           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Smilacina stellata           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Smilacina trifolia           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Smilax herbacea              |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Smilax tamnoides var hispida |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Spiranthes gracilis          |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Spiranthes romanzoffiana     |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago canadensis          |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago flexicaulis         | ✓  |  |  |   |  |  |  |  |  |     |  |  |  | ✓ |  |  |     |     | 1 5  |
| Solidago gigantea            |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago graminifolia        |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago hispida             |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago juncea              |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago lepida              |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago macrophylla         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago rugosa              |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Solidago ulmifolia           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Spiraea alba                 |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Spiraea latifolia            |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Stachys palustris            |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Stellaria calycantha         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Stellaria longifolia         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Stellaria palustris          |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Streptopus amplexifolius     |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Streptopus roseus            | ✓  |  |  |   |  |  |  |  |  |     |  |  |  | ✓ |  |  |     |     | 1 5  |
| Symphoricarpos albus         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Symphoricarpos occidentalis  | ✓  |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  | ✓   | 1 5 |      |
| Taraxacum officinale         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Taxus canadensis             |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Thalictrum dasycarpum        |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Thalictrum dioicum           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Thalictrum polygamum         |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Tiarella cordifolia          |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |
| Trientalis borealis          | ✓  |  |  | ✓ |  |  |  |  |  | ✓   |  |  |  |   |  |  |     |     | 2 10 |
| Trifolium hybridum           |    |  |  |   |  |  |  |  |  |     |  |  |  |   |  |  |     |     |      |

|                          | P.           |   |   |   |   |   |   |   |   | 10. |   |   |   |   |   |   |   | 20. |    |
|--------------------------|--------------|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|-----|----|
| Trifolium pratense       |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Trifolium repens         |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Trillium cernuum         |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Trillium erectum         |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Trillium grandiflorum    |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Trillium undulatum       |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Uvularia grandiflora     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Uvularia sessilifolia    | ✓            |   |   |   | ✓ |   |   |   |   | ✓   |   |   | ✓ | ✓ | ✓ | ✓ |   | 6   | 30 |
| Vaccinium angustifolium  |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium cespitosum     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium corymbosum     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium myrtilloides   |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium ovalifolium    |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium uliginosum     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vaccinium vitis-idaea    |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Veronica officinalis     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Veronica scutellata      |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Veronica serpyllifolia   |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum acerifolium     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum alnifolium      |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum cassinoides     |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum edule           |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum lentago         |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum rafinesquianum  |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viburnum trilobum        |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vicia americana          |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola adunca             |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola blanda,            |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola canadensis         |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola conspersa          | ✓            | ✓ |   | ✓ |   |   | ✓ | ✓ |   | ✓   |   | ✓ |   |   |   |   |   | 6   | 30 |
| Viola cucullata          |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola incognita          | ✓            | ✓ |   | ✓ |   |   | ✓ |   | ✓ | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 10  | 50 |
| Viola nephrophylla       |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola pallens            |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola papilionacea       |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola pubescens          | ✓            | ✓ |   |   | ✓ |   |   |   | ✓ |     |   |   |   |   |   |   |   | 3   | 15 |
| Viola renifolia          | ✓            |   |   | ✓ |   |   |   |   |   |     |   |   |   |   |   |   |   | 1   | 5  |
| Viola selkirkii          | <del>✓</del> |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Viola sororia            |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Vitis riparia            |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Waldsteinia fragarioides | ✓            |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     | 1  |
| Woodsia ilvensis         | ✓            |   |   | ✓ |   |   |   |   |   |     |   |   |   |   |   |   |   | 1   | 5  |
| Xanthoxylum americanum   |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Tree Seedlings           |              |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |     |    |
| Abies balsamea           | ✓            |   | ✓ |   |   | ✓ | ✓ | ✓ |   | ✓   | ✓ | ✓ |   |   | ✓ |   |   | 8   | 40 |
| Acer pensylvanicum       |              |   |   |   |   |   |   | ✓ |   | ✓   | ✓ | ✓ |   |   | ✓ | ✓ | ✓ | 11  | 55 |
| Acer rubrum              | ✓            | ✓ | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓   | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | 16  | 80 |
| Acer saccharum           | ✓            | ✓ | ✓ |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | 1   | 5  |
| Acer spicatum            | ✓            |   |   |   |   |   |   |   |   |     |   |   |   |   | ✓ |   |   |     |    |

[illegible]

## PRESENCE LIST

## SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 29

## TREES

- ✓ *Abies balsamea*
- Acer pensylvanicum*
- ✓ *Acer rubrum*
- ✓ *Acer saccharum*
- ✓ *Acer spicatum*
- Amelanchier* spp.
- ✓ *Betula lutea*
- Betula papyrifera*
- Carpinus caroliniana*
- Crataegus* spp.
- Fagus grandifolia*
- ✓ *Fraxinus americana*

- ✓ *Fraxinus nigra*
- Fraxinus pennsylvanicum*
- Larix laricina*
- ✓ *Ostrya virginiana*
- Picea glauca*
- Picea mariana*
- Pinus banksiana*
- Pinus resinosa*
- ✓ *Pinus strobus*
- Populus balsamifera*
- Populus grandidentata*
- ✓ *Populus tremuloides*

- Prunus nigra*
- ✓ *Prunus pensylvanica*
- ✓ *Prunus serotina*
- ✓ *Prunus virginiana*
- Pyrus americana*
- Pyrus decora*
- ✓ *Quercus rubra* var. *borealis*
- ✓ *Thuja occidentalis*
- ✓ *Tilia americana*
- ✓ *Tsuga canadensis*
- Ulmus americana*
- ✓ *Ulmus rubra*

## SHRUBS

- ✓ *Alnus crispa*
- ✓ *Alnus rugosa*
- Arctostaphylos uva-ursi*
- Celastrus scandens*
- Chamaedaphne calyculata*
- Comptonia peregrina*
- Cornus alternifolia*
- Cornus racemosa*
- Cornus rugosa*
- Cornus stolonifera*
- Corylus americana*
- ✓ *Corylus cornuta*
- ✓ *Diervilla lonicera*
- ✓ *Dirca palustris*
- Empetrum nigrum*
- Gaylussaccia baccata*
- Hamamelis virginiana*
- Ilex verticillata*
- Juniperus communis*
- Juniperus horizontalis*
- Ledum groenlandicum*
- ✓ *Lonicera canadensis*
- Lonicera dioica*

- ✓ *Lonicera hirsutum*
- Lonicera involucrata*
- Lonicera oblongifolia*
- Lonicera villosa*
- Parthenocissus quinquefolia*
- Parthenocissus vitacea*
- Prunus pumila*
- Pyrus melanocarpa*
- Rhamnus alnifolia*
- Rhus glabra*
- Rhus typhina*
- Ribes americanum*
- Ribes cynosbati*
- Ribes glandulosum*
- Ribes hirtellum*
- Ribes lacustre*
- Ribes oxycanthoides*
- Ribes triste*
- Rosa* sp.
- Rubus allegheniensis*
- ✓ *Rubus* (blackberry)
- ✓ *Rubus* (dewberry)
- ✓ *Rubus* (raspberry)

- ✓ *Rubus idaeus*
- ✓ *Rubus parviflorus*
- Salix* sp.
- Sambucus canadensis*
- ✓ *Sambucus pubens*
- Shepherdia canadensis*
- Smilax tamnoides* var. *hispida*
- Spiraea alba*
- Spiraea latifolia*
- Symphoricarpos albus*
- ✓ *Symphoricarpos occidentalis*
- Taxus canadensis*
- Vaccinium angustifolium*
- Vaccinium myrtilloides*
- Vaccinium vitis-idaea*
- Viburnum acerifolium*
- Viburnum cassinoides*
- Viburnum edule*
- Viburnum lentago*
- Viburnum rafinesquianum*
- Viburnum trilobum*
- Vitis vulpina*
- Zanthoxylum americanum*

## HERBS

- Achillea millefolium*
- ✓ *Actaea pachypoda*
- ✓ *Actaea rubra*
- Adiantum pedatum*
- Agrimonia gryposepala*
- Agrostis perennans*
- ✓ *Allium tricoccum*
- Amphicarpa bracteata*
- Anaphlis margaritacea*
- Anemone canadensis*
- Anemone cylindrica*
- Anemone quinquefolia*
- Anemone virginiana*
- Antennaria* sp.
- Apocynum androsaemifolium*
- Aquilegia canadensis*
- ✓ *Aralia nudicaulis*
- Aralia racemosa*
- ✓ *Arisaema atrorubens*
- ✓ *Asarum canadense*
- Asclepias exaltata*
- Aster furcatus*
- ✓ *Aster macrophyllus*
- Aster nova-angliae*
- Aster paniculatus*

- Aster puniceus*
- Aster sagittifolius*
- Aster umbellatus*
- ✓ *Athyrium filix-femina*
- Athyrium thelypteroides*
- Botrychium lunaria*
- Botrychium matricariaefolium*
- ✓ *Botrychium multifidum*
- ✓ *Botrychium virginianum*
- Calypso bulbosa*
- Campanula rotundifolia*
- ✓ *Carex arctata*
- ✓ *Carex intumescens*
- ✓ *Carex pensylvanica*
- Carex woodii*
- ✓ *Carex* spp.
- Chimaphila umbellata*
- Chrysanthemum leucanthemum*
- Chrysosplenium americanum*
- Cinna latifolia*
- Circaea alpina*
- Claytonia caroliniana*
- Claytonia virginiana*
- Clematis virginiana*
- Clematis verticillaris*

- ✓ *Clintonia borealis*
- Comandra richardsiana*
- Comandra umbellata*
- ✓ *Coptis groenlandicum*
- Corallorhiza maculata*
- Corallorhiza striata*
- Corallorhiza trifida*
- ✓ *Cornus canadensis*
- Corydalis sempervirens*
- Cynoglossum officinale*
- Cypripedium acaule*
- Cypripedium calceolus* var. *pubescens*
- ✓ *Cystopteris fragilis*
- Dalibarda repens*
- Desmodium glutinosum*
- Dicentra canadensis*
- Dicentra cucullaria*
- Dryopteris cristata*
- ✓ *Dryopteris disjuncta*
- Dryopteris goldiana*
- Dryopteris marginalis*
- Dryopteris phegopteris*
- ✓ *Dryopteris spinulosa*

## PRESENCE LIST

## SPRUCE-FIR - MIXED HARDWOODS

STAND 29

Epigaea repens  
 Epilobium angustifolium  
 ✓ Epilobium glandulosum  
 Epilobium strictum  
 Equisetum pratense  
 ✓ Equisetum sylvaticum  
 Erigeron annuus  
 Erigeron philadelphicus  
 Erigeron strigosus  
 Erythronium albidum  
 Erythronium americanum  
 ✓ Fragaria vesca  
 Fragaria virginiana  
 Galium aparine  
 Galium boreale  
 Galium concinnum  
 Galium lanceolatum  
 ✓ Galium triflorum  
 Gaultheria hispidula  
 ✓ Gaultheria procumbens  
 Gentiana andrewsii  
 Gentiana crinata  
 Gentiana quinquefolia  
 Geocaulon lividum  
 Geranium bicknellii  
 Geranium maculatum  
 Geum rivale  
 Goodyera repens  
 ✓ Goodyera tessellata  
 Habenaria hyperborea  
 Habenaria orbiculata  
 Habenaria psycodes  
 Habenaria viridis  
 Halenia deflexa  
 Helianthus strumosus  
 Hepatica acutiloba  
 Hepatica americanum  
 Hieracium aurantiacum  
 Hieracium canadense  
 Hieracium scabrum  
 Impatiens capensis  
 Iris lacustris  
 Isopyrum biternatum  
 Lathyrus ochroleucus  
 ✓ Linnaea borealis  
 Lobelia inflata  
 ✓ Lycopodium annotinum  
 ✓ Lycopodium clavatum  
 Lycopodium clavatum var. megastachyon  
 Lycopodium complanatum  
 Lycopodium inundatum

✓ Lycopodium lucidulum  
 Lycopodium obscurum  
 Lycopodium obscurum var. dendroideum  
 Lycopodium selago  
 Lycopodium tristachyum  
 Lysimachia ciliata  
 Lysimachia quadrifolia  
 Lysimachia terrestris  
 ✓ Maianthemum canadense  
 Malaxis unifolia  
 Medeola virginiana  
 Melampyrum lineare  
 ✓ Mitchella repens  
 Mitella diphylla  
 ✓ Mitella nuda  
 Moneses uniflora  
 Monotropa hypopithys  
 Monotropa uniflorus  
 Onoclea sensibilis  
 Orchis spectabilis  
 ✓ Osmorhiza claytoni  
 ✓ Osmorhiza longistylis  
 ✓ Osmunda cinnamomea  
 ✓ Osmunda claytoniana  
 ✓ Oxalis montana  
 Oxalis stricta  
 Panax quinquefolius  
 Panax trifolius  
 ✓ Petasites palmatus  
 Phlox divaricata  
 Poa compressa  
 Poa pratensis  
 Polygala paucifolia  
 Polygonatum biflorum  
 Polygonatum pubescens  
 Polymnia canadensis  
 Polypodium virginianum  
 Potentilla norvegica  
 Potentilla simplex  
 Potentilla tridentata  
 Prenanthes alba  
 Primula mistassinaca  
 ✓ Prunella vulgaris  
 ✓ Pteridium aquilinum  
 Pyrola asarifolia  
 ✓ Pyrola elliptica  
 Pyrola minor  
 Pyrola rotundifolia  
 Pyrola secunda  
 ✓ Pyrola virens  
 Ranunculus abortivus

Ranunculus acris  
 Ranunculus pensylvanicus  
 Ranunculus recurvatus  
 Ranunculus repens  
 Ranunculus septentrionalis  
 Rhus radicans  
 ✓ Rubus pubescens  
 Sanguinaria canadensis  
 ✓ Sanicula marilandica  
 Satureja vulgaris  
 Schizachne purpurascens  
 Scutellaria epilobiifolia  
 Scutellaria lateriflora  
 Smilacina racemosa  
 Smilacina stellata  
 Smilacina trifolia  
 Smilax herbacea  
 Solidago canadensis  
 ✓ Solidago flexicaulis  
 Solidago graminifolia  
 Solidago ulmifolia  
 Stellaria calycantha  
 Streptopus amplexifolius  
 ✓ Streptopus roseus  
 Taraxacum officinale  
 Thalictrum dioicum  
 Thalictrum polygamum  
 Tiarella cordifolia  
 ✓ Trientalis borealis  
 Trillium cernuum  
 Trillium erectum  
 Trillium grandiflorum  
 Trillium undulatum  
 Uvularia grandiflora  
 ✓ Uvularia sessilifolia  
 Vicia americana  
 Viola adunca  
 Viola blanda  
 Viola canadensis  
 ✓ Viola conspersa  
 Viola cucullata  
 ✓ Viola incognita  
 Viola nephrophylla  
 Viola pallens  
 Viola papilionacea  
 ✓ Viola pubescens  
 ✓ Viola renifolia  
 Viola selkirkii  
 Viola sororia  
 ✓ Waldsteinia fragarioides

## Additional species

Carex pedunculata  
 Brachyelytrum erectum  
 Viola same - selkirkii  
 Lichens  
 Mosses  
 Onyopsis asperifolia  
 White aster - Aster lateriflorus  
 Large heart violet - micoglossa  
 Equisetum bore - arvense var borealis  
 Plantago major  
 Pyrola sp. chlorantha or virens

Pteris pennsylvanicum  
 Caulophyllum thalict  
 Carex projecta  
 Goodyera obtusifolia  
 Woodsia ilvensis

FREQUENCY DATA  
(Common Species)

## SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 29 (10)

## TREE SEEDLINGS

08762 Abies balsamea  
Acer pensylvanicum  
09734 Acer rubrum  
98765421 Acer saccharum  
Acer spicatum  
2 Betula lutea  
Betula papyrifera

Fagus grandifolia  
Larix laricina  
976 Ostrya virginiana  
7 Picea glauca  
Picea mariana  
Pinus banksiana  
Pinus resinosa  
0751 71047 mgr

Pinus strobus  
0 Populus tremuloides  
Prunus pensylvanica  
9 Prunus serotina  
Thuja occidentalis  
Tilia americana  
Tsuga canadensis

## SHRUBS

Alnus rugosa  
Arctostaphylos uva-ursi  
Comptonia peregrina  
Corylus americana  
8 Corylus cornuta  
6 Diervilla lonicera  
Dirca palustris  
Ilex verticillata  
Ledum groenlandicum  
9642 Lonicera canadensis

Prunus pumila  
Pyrus melanocarpa  
Ribes cynosbati  
Ribes glandulosum  
Ribes lacustre  
Rosa sp.  
Rubus (blackberry)  
Rubus (dewberry)  
Rubus (raspberry)  
Rubus idaeus

Rubus parviflorus  
Sambucus pubens  
Shepherdia canadensis  
Spiraea alba  
Symphoricarpos occidentalis  
Taxus canadensis  
Vaccinium angustifolium  
Vaccinium myrtilloides  
Viburnum acerifolium  
Viburnum trilobum

## HERBS

Actaea pachypoda  
Actaea rubra  
Adiantum pedatum  
Anaphlis margaritacea  
Anemone cylindrica  
Anemone quinquefolia  
Anemone virginiana  
Antennaria spp.  
Apocynum androsaemifolium  
Aquilegia canadensis  
037 Aralia nudicaulis  
Arisaema atrorubens  
8542 Aster macrophyllus  
Athyrium filix-femina  
Botrychium virginianum  
5 Carex pensylvanica  
Chimaphila umbellata  
Chrysanthemum leucanthemum  
Circaea alpina  
Claytonia caroliniana  
Claytonia virginiana  
Clintonia borealis  
06 Coptis groenlandicum  
Corallorhiza maculata  
0 Cornus canadensis  
Cystopteris fragilis  
Dicentra canadensis  
Dicentra cucullaria  
Dryopteris disjuncta  
Dryopteris phegopteris

863 Dryopteris spinulosa  
Epigaea repens  
Epilobium angustifolium  
Equisetum sylvaticum  
Erythronium americanum  
Fragaria vesca  
Fragaria virginiana  
Galium aparine  
86 Galium triflorum  
Gaultheria hispidula  
Gaultheria procumbens  
Gentiana quinquefolia  
Geranium maculatum  
Goodyera repens  
Habenaria obtusata  
Halenia deflexa  
Hepatica acutiloba  
Hepatica americana  
Hieracium aurantiacum  
Linnaea borealis  
2 Lycopodium annotinum  
Lycopodium clavatum  
Lycopodium complanatum  
8 Lycopodium lucidulum  
Lycopodium obscurum  
065432 Maianthemum canadense  
Medeola virginiana  
Melampyrum lineare  
08754 Mitchellia repens  
Mitella diphylla

Mitella nuda  
Monotropa uniflora  
Osmorhiza claytoni  
Oxalis montana  
Oxalis stricta  
Polygala paucifolia  
Polygonatum pubescens  
Prenanthes alba  
043 Pteridium aquilinum  
Pyrola elliptica  
Pyrola rotundifolia  
Pyrola secunda  
Ranunculus acris  
Rhus radicans  
63 Rubus pubescens  
Sanguinaria canadensis  
Smilacina racemosa  
Smilacina stellata  
Streptopus roseus  
Tiarella cordifolia  
3 Trientalis borealis  
Trillium erectum  
Trillium grandiflorum  
5 Uvularia sessilifolia  
Viola canadensis  
Viola cucullata  
Viola pallens  
051 Viola pubescens  
3 Viola renifolia  
Waldsteinia fragarioides

## Additional species

Mosses 135679  
Lichens 179  
Brachyplectum 138  
Onychopteris 124690  
Viola same 1380 incognita

Viola conspersa 1378  
Carex acrotata 13  
Carex pedunculata 379  
Woodruff 3  
Viola sp. 50

White Aster 7 - Aster lateriflorus

FREQUENCY DATA  
(Common Species)

## SPRUCE-FIR - MIXED HARDWOODS

STAND NO. 29 (2)

## TREE SEEDLINGS

- 83/Abies balsamea  
Acer pensylvanicum  
98731 Acer rubrum  
987532 Acer saccharum  
7 Acer spicatum  
04 Betula lutea  
Betula papyrifera

- Fagus grandifolia  
Larix laricina  
863 Ostrya virginiana  
6 Picea glauca  
Picea mariana  
Pinus banksiana  
Pinus resinosa  
021 Frax. nig.

- Pinus strobus  
Populus tremuloides  
Prunus pensylvanica  
04 Prunus serotina  
Thuja occidentalis  
Tilia americana  
Tsuga canadensis

## SHRUBS

- Alnus rugosa  
Arctostaphylos uva-ursi  
Comptonia peregrina  
Corylus americana  
6 Corylus cornuta  
Diervilla lonicera  
Dirca palustris  
Ilex verticillata  
Ledum groenlandicum  
81 Lonicera canadensis

- Prunus pumila  
Pyrus melanocarpa  
Ribes cynosbati  
Ribes glandulosum  
Ribes lacustre  
Rosa sp.  
Rubus (blackberry)  
Rubus (dewberry)  
Rubus (raspberry)  
0 Rubus idaeus

- Rubus parviflorus  
Sambucus pubens  
Shepherdia canadensis  
Spiraea alba  
0 Symphoricarpos occidentalis  
Taxus canadensis  
Vaccinium angustifolium  
Vaccinium myrtilloides  
Viburnum acerifolium  
Viburnum trilobum

## HERBS

- Actaea pachypoda  
Actaea rubra  
Adiantum pedatum  
Anaphlis margaritacea  
Anemone cylindrica  
Anemone quinquefolia  
Anemone virginiana  
Antennaria spp.  
Apocynum androsaemifolium  
Aquilegia canadensis  
2 Aralia nudicaulis  
Arisaema atrorubens  
9832 Aster macrophyllus  
5 Athyrium filix-femina  
Botrychium virginianum  
9 Carex pensylvanica  
Chimaphila umbellata  
Chrysanthemum leucanthemum  
Circaea alpina  
Claytonia caroliniana  
Claytonia virginiana  
742 Clintonia borealis  
91 Coptis groenlandicum  
Corallorhiza maculata  
Cornus canadensis  
Cystopteris fragilis  
Dicentra canadensis  
Dicentra cucullaria  
7 Dryopteris disjuncta  
Dryopteris phegopteris

- 07543 Dryopteris spinulosa  
Epigaea repens  
Epilobium angustifolium  
Equisetum sylvaticum  
Erythronium americanum  
2 Fragaria vesca  
Fragaria virginiana  
Galium aparine  
94 Galium triflorum  
Gaultheria hispidula  
Gaultheria procumbens  
Gentiana quinquefolia  
Geranium maculatum  
Goodyera repens  
Habenaria obtusata  
Halenia deflexa  
Hepatica acutiloba  
Hepatica americana  
Hieracium aurantiacum  
1 Linnaea borealis  
Lycopodium annotinum  
Lycopodium clavatum  
Lycopodium complanatum  
6 Lycopodium lucidulum  
Lycopodium obscurum  
098721 Maianthemum canadense  
Medeola virginiana  
Melampyrum lineare  
61 Mitchella repens  
Mitella diphylla

- Mitella nuda  
Monotropa uniflora  
Osmorhiza claytoni  
7 Oxalis montana  
Oxalis stricta  
Polygala paucifolia  
Polygonatum pubescens  
Prenanthes alba  
92 Pteridium aquilinum  
5 Pyrola elliptica  
Pyrola rotundifolia  
Pyrola secunda  
Ranunculus acris  
Rhus radicans  
07542 Rubus pubescens  
Sanguinaria canadensis  
Smilacina racemosa  
Smilacina stellata  
6 Streptopus roseus  
Tiarella cordifolia  
2 Trientalis borealis  
Trillium erectum  
Trillium grandiflorum  
87652 Uvularia sessilifolia  
Viola canadensis  
Viola cucullata  
Viola pallens  
Viola pubescens  
Viola renifolia  
Waldsteinia fragarioides

## Additional species

- Morus 135890  
Lichens 13790  
Chrysopsis 1258  
Carex ped 123469  
Viola conspersa 24  
Brachyelytrum 2890  
Viola heart 2490 incognita  
Carex groenlandica 30  
Smooth Aster 3  
White Aster 49 - Aster lateriflorus  
Solidago flexicaulis 5  
Viola same 670 incognita