Site: Birch Route
Observer: 
Date: 
Time: 

Directions: In the box below, estimate your contribution of time to the project today, separating the time it took you to travel to the site and the time you spent making observations on plants and animals once you arrived at the site. If you are observing animals, report the time you spent searching for animals and circle the appropriate letter for your observation method (there is no need to report time for incidental sightings):

i – incidental: chance sighting while not specifically searching
s – stationary: standing or sitting at a single point
w – walking: a single pass or transect through your site
a – area search: multiple passes through your site

In the four boxes to the right, circle the appropriate letter to describe the phenophase status:
y – phenophase is occurring
n – phenophase is not occurring
? – not certain if the phenophase is occurring

Do not circle anything if you did not check for the phenophase. In the adjacent blank, write in the appropriate measure of intensity or abundance for this phenophase.

---

Report your contribution of time

<table>
<thead>
<tr>
<th>Time spent observing</th>
<th>hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time spent in travel</td>
<td>hr</td>
</tr>
</tbody>
</table>

Report your animal observation method

| Time spent looking for animals | hr |
| Animal survey looking for | min |
| Is there snow in the canopy? | y n |

Report on snow

| Is there snow on the ground? | y n |
| % of ground covered | |
| Is there snow in the canopy? | y n |

---

Species: Betula nigra
Common Name: river birch
Nickname: 1199*J, Tree 1

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>

---

Species: Betula nigra
Common Name: river birch
Nickname: 1251-79*A, Tree 3

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>

---

Species: Betula nigra
Common Name: river birch
Nickname: 1251-79*B, Tree 2

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>

---

Species: Betula nigra
Common Name: river birch
Nickname: 1251-79*E, Tree 4

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>
### Nature's Notebook

**Species:** Betula nigra  
**Common Name:** yellow birch  
**Nickname:** 1199*D, Tree 5

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n ?</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n ?</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>

**Species:** Betula alleghaniensis  
**Common Name:** yellow birch  
**Nickname:** 12843*H, Tree 8

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y n ?</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y n</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y n ?</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y n ?</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y n ?</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y n ?</td>
</tr>
<tr>
<td>Fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y n ?</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y n ?</td>
</tr>
</tbody>
</table>

---

**Site:** Birch Route  
**Observer:**  
**Date:**  
**Time:**

**Directions:** In the box below, estimate your contribution of time to the project today, separating the time it took you to travel to the site and the time you spent making observations on plants and animals once you arrived at the site. If you are observing animals, report the time you spent searching for animals and circle the appropriate letter for your observation method (there is no need to report time for incidental sightings):

- i – incidental: chance sighting while not specifically searching  
- s – stationary: standing or sitting at a single point  
- w – walking: a single pass or transect through your site  
- a – area search: multiple passes through your site

In the four boxes to the right, circle the appropriate letter to describe the phenophase status:

- y – phenophase is occurring  
- n – phenophase is not occurring  
- ? – not certain if the phenophase is occurring

Do not circle anything if you did not check for the phenophase. In the adjacent blank, write in the appropriate measure of intensity or abundance for this phenophase.

---

**Report your contribution of time**

| Time spent observing | hr |
| Time spent in travel | min |

**Report your animal observation method**

| Time spent looking for animals | hr |
| Animal survey method | i s w a |

**Report on snow**

| Is there snow on the ground? | y n ? |
| Is there snow in the canopy? | y n ? |

---

**Taking the Pulse of Our Planet**

Contact: nco@usanpn.org  
More information: www.usanpn.org/how-observe

PAPERWORK REDUCTION ACT STATEMENT: In accordance with the Paperwork Reduction Act (44 U.S.C. 3501), please note the following. This information collection is authorized by Organic Act, 43 U.S.C. 31 et seq., 1879 and Fish and Wildlife Coordination Act. Your response is voluntary. We estimate that it will take approximately 2 minutes to make and report observations per respondent. An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid Office of Management and Budget control number. OMB has reviewed and approved this information collection and assigned OMB Control Number 1028-0103. You may submit comments on any aspect of this information collection, including the accuracy of the estimated burden hours and suggestions to reduce this burden. Send your comments to: Information Collection Clearance Office, U.S. Geological Survey, 12201 Sunrise Valley Drive, MS 80-7, Reston, VA 20192. OMB Control F: 1028-0103 Expiration Date: 03/31/2019
### Directions

In the box below, estimate your contribution of time to the project today, separating the time it took you to travel to the site and the time you spent making observations on plants and animals once you arrived at the site. If you are observing animals, report the time you spent searching for animals and circle the appropriate letter for your observation method (there is no need to report time for incidental sightings):
- **i** – incidental: chance sighting while not specifically searching
- **s** – stationary: standing or sitting at a single point
- **w** – walking: a single pass or transect through your site
- **a** – area search: multiple passes through your site

In the four boxes to the right, circle the appropriate letter to describe the phenophase status:
- **y** – phenophase is occurring
- **n** – phenophase is not occurring
- **?** – not certain if the phenophase is occurring

Do not circle anything if you did not check for the phenophase. In the adjacent blank, write in the appropriate measure of intensity or abundance for this phenophase.

---

<table>
<thead>
<tr>
<th>Site: Birch Route</th>
</tr>
</thead>
<tbody>
<tr>
<td>Observer:</td>
</tr>
<tr>
<td>Date:</td>
</tr>
<tr>
<td>Time:</td>
</tr>
</tbody>
</table>

**Report your contribution of time**

<table>
<thead>
<tr>
<th>Time spent observing</th>
<th>hr</th>
<th>min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time spent in travel</td>
<td>hr</td>
<td>min</td>
</tr>
</tbody>
</table>

**Report your animal observation method**

<table>
<thead>
<tr>
<th>Time spent looking for animals</th>
<th>hr</th>
<th>min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal survey method</td>
<td>i</td>
<td>s</td>
</tr>
</tbody>
</table>

**Report on snow**

<table>
<thead>
<tr>
<th>Is there snow on the ground?</th>
<th>y</th>
<th>n</th>
<th>?</th>
</tr>
</thead>
<tbody>
<tr>
<td>% of ground covered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is there snow in the canopy?</td>
<td>y</td>
<td>n</td>
<td>?</td>
</tr>
</tbody>
</table>

---

### Site: Birch Route

<table>
<thead>
<tr>
<th>Species: <em>Betula alleghaniensis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name: yellow birch</td>
</tr>
<tr>
<td>Nickname: 12843*E, Tree 9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y</td>
</tr>
<tr>
<td>Leaves</td>
<td>y</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y</td>
</tr>
<tr>
<td>Fruits</td>
<td>y</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y</td>
</tr>
</tbody>
</table>

---

### Site: Birch Route

<table>
<thead>
<tr>
<th>Species: <em>Betula alleghaniensis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name: yellow birch</td>
</tr>
<tr>
<td>Nickname: 629-83*D, Tree 10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y</td>
</tr>
<tr>
<td>Leaves</td>
<td>y</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y</td>
</tr>
<tr>
<td>Fruits</td>
<td>y</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y</td>
</tr>
</tbody>
</table>

---

### Site: Birch Route

<table>
<thead>
<tr>
<th>Species: <em>Betula alleghaniensis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name: yellow birch</td>
</tr>
<tr>
<td>Nickname: 12843*E, Tree 9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y</td>
</tr>
<tr>
<td>Leaves</td>
<td>y</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y</td>
</tr>
<tr>
<td>Fruits</td>
<td>y</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y</td>
</tr>
</tbody>
</table>

---

### Site: Birch Route

<table>
<thead>
<tr>
<th>Species: <em>Betula alleghaniensis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name: yellow birch</td>
</tr>
<tr>
<td>Nickname: 12843*E, Tree 9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do you see...?</th>
<th>Check when data entered online:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking leaf buds</td>
<td>y</td>
</tr>
<tr>
<td>Leaves</td>
<td>y</td>
</tr>
<tr>
<td>Increasing leaf size</td>
<td>y</td>
</tr>
<tr>
<td>Colored leaves</td>
<td>y</td>
</tr>
<tr>
<td>Falling leaves</td>
<td>y</td>
</tr>
<tr>
<td>Flowers or flower buds</td>
<td>y</td>
</tr>
<tr>
<td>Open flowers</td>
<td>y</td>
</tr>
<tr>
<td>Pollen release</td>
<td>y</td>
</tr>
<tr>
<td>Fruits</td>
<td>y</td>
</tr>
<tr>
<td>Ripe fruits</td>
<td>y</td>
</tr>
<tr>
<td>Recent fruit or seed drop</td>
<td>y</td>
</tr>
</tbody>
</table>