

USDA Forest Service National Landowner Survey of Large Forest Ownerships



OMB No. 0596-0078 Approval Expires 11/30/2018

Instructions

- ✓ Provide answers for all of the forestland that your company owns in the U.S.
- ✓ If your company has one or more subsidiaries, respond for the larger, parent company and all of its subsidiaries.
- ✓ If your company manages land on behalf of clients, please include all of the land your company manages.
- ✓ Do NOT include any land your company leases from other owners.
- ✓ Completed surveys should be emailed to: nwos@fs.fed.us or mailed to: USDA Forest Service, National Woodland Owner Survey, 160 Holdsworth Way, Amherst, MA 01003.

Comments or Questions

If you have any comments or question regarding this survey, please contact us at nwos@fs.fed.us or 855-233-3372.

Forestland Definition

Forestland covers 36% of the U.S.

Forestland includes:

- ✓ Land at least 1 acre in size, 120 feet wide, and has at least 10% forest cover
- ✓ Land at least 1 acre in size, where trees were harvested and will grow again
- ✓ Plantations and naturally regenerated forests

Forestland does *not* include:

- ✓ Christmas tree farms, orchards, or nurseries

General Questions about Your Company's Forestland

1. As of January 1, 2018, in which states does your company own or manage forestland? How many acres does it own in each state?

List each state and acres in that state.

If more space is needed, please use the included supplemental form on page 14.

State	Acres	State	Acres	State	Acres

Company Structure

2. What is the structure of your company?

Check one.

Publicly traded corporation

Privately held C-corporation

Privately held S-corporation

Limited liability company (LLC)

Other (please specify): _____

3. Is your company a real estate investment trust (REIT)?

Yes No

4. Is your company a timberland investment organization (TIMO) managing lands on behalf of institutional investors?

Yes No

5. Is your company a forest management company (FMC) managing lands on behalf of clients other than institutional investors?

Yes No

6. Does your company currently own and operate one or more pulp mills, sawmills, or other primary wood processing facilities in the U.S.?

Yes No

Forestland Acquisitions and Sales

7. Approximately, how many acres of forestland has your company *acquired* in the U.S. in the past 5 years?

_____ acres

8. Approximately, how many acres of forestland has your company *sold, traded, or given away* in the U.S. in the past 5 years?

_____ acres

Forest Management Objectives

9. How important are the following reasons for how your company currently manages forestland in the U.S.?

Very Important
 Important
 Moderately Important
 Of Little Importance
 Not Important
 Not Applicable

To protect beauty or scenery
To protect nature or biological diversity
To protect water resources
To protect or improve wildlife habitat
For land investment
For firewood
For timber production
For nontimber forest products, such as berries or mushrooms
For hunting
For recreation, other than hunting
For oil or gas extraction
For extraction of other mineral products, such as sand or gravel
For carbon capture/sequestration
Other (Please specify): _____

Forest Management Practices

10. On average, how many acres has your company harvested on its forestland in the U.S. per year? *Include final cuts, thinnings, real estate cuts, and all other harvesting.*

_____ acres harvested per year

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11. Which, if any, of the following have occurred on your company's forestland in the U.S. in the past 5 years?

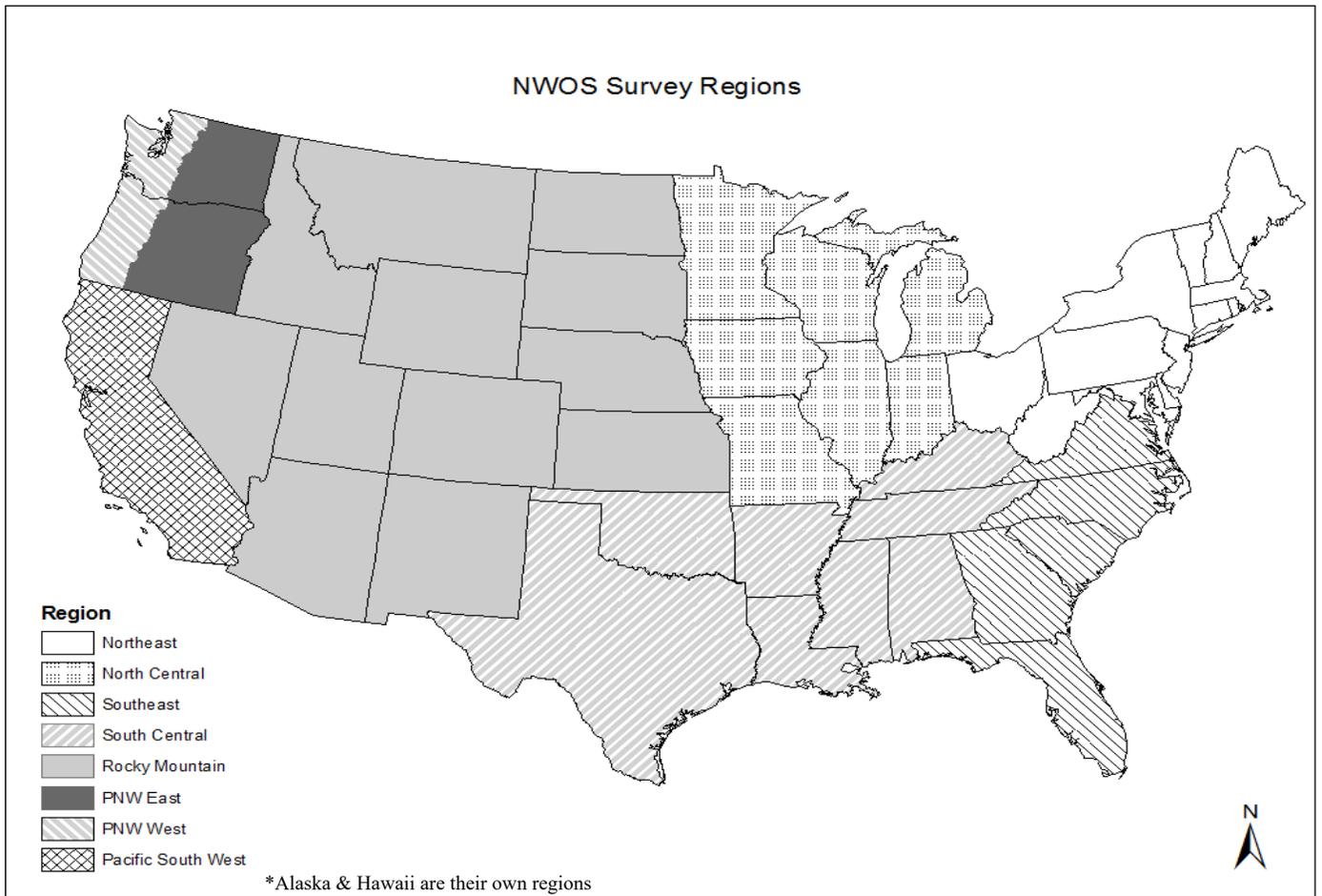
- | Yes | No | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Cut and/or removed trees for sale |
| <input type="checkbox"/> | <input type="checkbox"/> | Cut and/or removed trees for company use (i.e., for own mills) |
| <input type="checkbox"/> | <input type="checkbox"/> | Nontimber forest products, such as pine straw or mushrooms, have been collected |
| <input type="checkbox"/> | <input type="checkbox"/> | Reduced fire hazard |
| <input type="checkbox"/> | <input type="checkbox"/> | Controlled burn/prescribed fire |
| <input type="checkbox"/> | <input type="checkbox"/> | Eliminated or reduced invasive plants |
| <input type="checkbox"/> | <input type="checkbox"/> | Eliminated or reduced unwanted insects or diseases |
| <input type="checkbox"/> | <input type="checkbox"/> | Road construction or maintenance |
| <input type="checkbox"/> | <input type="checkbox"/> | Recreational trail construction or maintenance |
| <input type="checkbox"/> | <input type="checkbox"/> | Improved wildlife habitat |
| <input type="checkbox"/> | <input type="checkbox"/> | Agroforestry, including livestock grazing |
| <input type="checkbox"/> | <input type="checkbox"/> | Used herbicides |
| <input type="checkbox"/> | <input type="checkbox"/> | Used insecticides |
| <input type="checkbox"/> | <input type="checkbox"/> | Used fertilizers |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

12. Which, if any, of the following silvicultural practices have occurred on your company's forestland in the U.S. in the past 5 years?

- | Yes | No | |
|--------------------------|--------------------------|------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Clearcut with planting |
| <input type="checkbox"/> | <input type="checkbox"/> | Clearcut with natural regeneration |
| <input type="checkbox"/> | <input type="checkbox"/> | Seed tree cuts |
| <input type="checkbox"/> | <input type="checkbox"/> | Shelterwood cuts |
| <input type="checkbox"/> | <input type="checkbox"/> | Single tree selection |
| <input type="checkbox"/> | <input type="checkbox"/> | Group selection |
| <input type="checkbox"/> | <input type="checkbox"/> | Real estate cuts |
| <input type="checkbox"/> | <input type="checkbox"/> | Pre-commercial thinnings |
| <input type="checkbox"/> | <input type="checkbox"/> | Commercial thinnings |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

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Map of Regions for Questions 13, 14 & 15



13. Does your company have even-age stands on its forestland in the U.S.?

Yes No → Go to question 14

a. What is the average rotation length of your even-aged stands for your most common forest types and regions?

Please use the map above to determine your region and see the list of forest types on the tear out page in supplemental table provided on page 15.

Region	Forest Type	Rotation Length (Years)

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14. Has your company thinned any of its forestland in the U.S. in the past 5 years?

Please use the map on page 5 to determine your region and see the list of forest types on the tear out page in the supplemental table provided on page 15.

Yes No \longrightarrow *Go to question 15*

- a. What is the typical number of thinnings performed on a stand in the U.S. for your most common forest types by region?**

Region	Forest Type	Number of Thinnings / Rotation

- b. How many acres, on average, are thinned each year in the U.S. for your most common forest types by region?**

Region	Forest Type	Acres / Year

15. Has your company planted seedlings on any of its forestland in the U.S. in the past 5 years?

Please use the map on page 5 to determine your region and see the list of species groups on the tear out page in the supplemental table provided on page 16.

Yes No → Go to question 16

↳ **a. How many acres, on average, have been planted per year in the U.S. for your most common species groups by region?**

Region	Species Group	Acres / Year

b. What are the planting densities your company typically uses in the U.S. for your most common species groups by region?

Region	Species Group	Seedlings /Acre

Hqtguv'O cpci go gpv'Rrcppkpi "cpf "

16. What percentage of your company's forestland in the U.S. is covered by a written management plan?

_____ percent

17. Is your company's forestland in the U.S. currently certified, or in the process of being certified, under a certification scheme such as the American Tree Farm System, Forest Stewardship Council (FSC), Programme for the Endorsement of Forest Certification (PEFC), or Sustainable Forestry Initiative (SFI)?

Yes No \longrightarrow *If no, go to Question 18*

\hookrightarrow **a. What percent?** _____

\hookrightarrow **b. Which certification system(s) does your company use for its forestland in the U.S.?**

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | American Tree Farm System |
| <input type="checkbox"/> | <input type="checkbox"/> | Forest Stewardship Council (FSC) |
| <input type="checkbox"/> | <input type="checkbox"/> | Programme for the Endorsement of Forest Certification (PEFC) |
| <input type="checkbox"/> | <input type="checkbox"/> | Sustainable Forestry Initiative (SFI) |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

18. What percentage of your company's forestland in the U.S. is currently under a conservation easement?

_____ percent

19. Which, if any, of the following activities has your company ever collected money from people to use its forestland in the U.S.?

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Long-term leasing for timber production |
| <input type="checkbox"/> | <input type="checkbox"/> | Mineral, oil, or gas extraction |
| | | Hunting |
| <input type="checkbox"/> | <input type="checkbox"/> | Recreation (other than hunting) |
| <input type="checkbox"/> | <input type="checkbox"/> | Agroforestry, including grazing/pasturing of livestock |
| <input type="checkbox"/> | <input type="checkbox"/> | Public water supply protection |
| <input type="checkbox"/> | <input type="checkbox"/> | Wildlife habitat/biodiversity program |
| <input type="checkbox"/> | <input type="checkbox"/> | Wetland mitigation bank |
| <input type="checkbox"/> | <input type="checkbox"/> | Carbon sequestration |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

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20. a. Who, with your company's permission, has hunted, hiked, or otherwise recreated on any of your company's forestland in the U.S. in the past 5 years?

- | | | |
|--------------------------|--------------------------|---|
| Yes | No | |
| <input type="checkbox"/> | <input type="checkbox"/> | Company employees |
| <input type="checkbox"/> | <input type="checkbox"/> | Neighbors |
| <input type="checkbox"/> | <input type="checkbox"/> | The general public free of charge |
| <input type="checkbox"/> | <input type="checkbox"/> | People for a fee (e.g., hunting leases, other leases, or day access fees) |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |
| <input type="checkbox"/> | <input type="checkbox"/> | Nobody —→ <i>Go to question 21</i> |

b. How did they recreate?

- | | | |
|--------------------------|--------------------------|--|
| Yes | No | |
| <input type="checkbox"/> | <input type="checkbox"/> | Hunting |
| <input type="checkbox"/> | <input type="checkbox"/> | Fishing |
| <input type="checkbox"/> | <input type="checkbox"/> | Hiking/walking |
| <input type="checkbox"/> | <input type="checkbox"/> | Bicycling |
| <input type="checkbox"/> | <input type="checkbox"/> | Camping |
| <input type="checkbox"/> | <input type="checkbox"/> | Horseback riding |
| <input type="checkbox"/> | <input type="checkbox"/> | Skiing or snowshoeing |
| <input type="checkbox"/> | <input type="checkbox"/> | Off-road vehicles, such as ATVs or snowmobiles |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

Concerns

21. Please indicate your level of concern about each of the following topics for your company's forestland in the U.S.

	<i>Great Concern</i>	<i>Concern</i>	<i>Moderate Concern</i>	<i>Of Little Concern</i>	<i>No Concern</i>	<i>Not Applicable</i>
Air pollution						
Climate change						
Damage from animals						
Development of nearby lands						
Drought or lack of water						
Damage or noise from off-road vehicles						
High property taxes						
Government regulation						
Invasive plants						
Keeping land intact for future generations						
Misuse of forestland, such as vandalism or dumping						
Trespassing or poaching						
Unwanted insects or diseases						
Water pollution						
Wildfire						
Wind or ice storms						

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22. Please indicate your level of concern about each of the following topics for your company's forestland in the U.S.

	<i>Great Concern</i>	<i>Concern</i>	<i>Moderate Concern</i>	<i>Of Little Concern</i>	<i>No Concern</i>	<i>Not Applicable</i>
Changes in national or state tax laws and structure						
Changes in state and local ordinances in road use/weight limits						
Changes in state and local ordinances in land use or timber management regulations						
Regulations limiting the use of chemicals in timber management			<input type="checkbox"/>			
Changes in the forest products industry						
Changes in timber markets	<input type="checkbox"/>	<input type="checkbox"/>				
International tariffs						
Long-term fiber supply agreements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Securing logging contractors		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Liability issues with hunting and recreation leases			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing seedling planting stock	<input type="checkbox"/>	<input type="checkbox"/>				
Changes in investors' preferences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
Meeting and maintaining timber green certification standards						
Other (Please specify):						

Community Relations

23. Which, if any, of the following community engagement activities has your company participated in in the U.S. in the past 5 years?

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Outreach and education to landowners
<input type="checkbox"/>	<input type="checkbox"/>	Outreach and education to the general public (such as, "Forestry Days")
<input type="checkbox"/>	<input type="checkbox"/>	Landowner technical assistance, such as writing forest management plans
<input type="checkbox"/>	<input type="checkbox"/>	Charitable contributions
<input type="checkbox"/>	<input type="checkbox"/>	Other (Please specify): _____

Income Generation

24. On average, what percentage of your company's total revenue is derived from your forestland operations?

Note: This includes receipts from timber sales, sale of forestland, and other revenue streams directly from your forestland. If this company is a subsidiary of a larger, parent company, please respond for the parent company.

- < 25% 26-49% 50-74% 75-99% 100%

25. Does your company have any long-term timber/fiber supply agreements with mills or other primary wood processing facilities for its forestland in the U.S.?

- Yes No → Go to question 26

↳ **a. What percentage of your company's annual harvests in the U.S. in the past 5 years was associated with these agreements?**

- < 25% 26-49% 50-74% 75-99% 100%

Labor/Workforce

26. Who manages day-to-day, on-the-ground operations for your company's forestland in the U.S.?

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Your company (in house) |
| <input type="checkbox"/> | <input type="checkbox"/> | Local/regional consultants or forestry professionals |
| <input type="checkbox"/> | <input type="checkbox"/> | National consultants or forestry professionals |
| <input type="checkbox"/> | <input type="checkbox"/> | Other (please specify): _____ |

27. Does your company have dedicated equipment for wildfire suppression in the U.S.?

- Yes No

28. Which, if any, of the following activities has your company participated in in the past 5 years in regards to research on tree improvement or other forest management issues in the U.S.?

Yes No

- | | | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Employ in-house researchers |
| <input type="checkbox"/> | <input type="checkbox"/> | Contribute to research cooperatives |
| <input type="checkbox"/> | <input type="checkbox"/> | Directly fund specific research projects |

Thank you for participating!

Completed surveys should be
emailed to:

or mailed to:
USDA Forest Service
National Landowner Survey
160 Holdsworth Way
Amherst, MA 01003

To obtain results of this survey, you may email your contact information to:

nwos@fs.fed.us

with the word "Results" in the subject line or simply provide your mailing or
email address below.

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Supplemental Form A

**As of January 1, 2018, in which states does your company own or manage forestland?
How many acres does it own in each state?**

List acres for each state.

State	Acres	State	Acres	State	Acres
Alabama	..	Alaska	..	Arizona	..
Arkansas	..	California	..	Colorado	..
Connecticut	..	Delaware	..	Florida	..
Georgia	..	Hawaii	..	Idaho	..
Illinois	..	Indiana	..	Iowa	..
Kansas	..	Kentucky	..	Louisiana	..
Maine	..	Maryland	..	Massachusetts	..
Michigan	..	Minnesota	..	Mississippi	..
Missouri	..	Montana	..	Nebraska	..
Nevada	..	New Hampshire	..	New Jersey	..
New Mexico	..	New York	..	North Carolina	..
North Dakota	..	Ohio	..	Oklahoma	..
Oregon	..	Pennsylvania	..	Rhode Island	..
South Carolina	..	South Dakota	..	Tennessee	..
Texas	..	Utah	..	Vermont	..
Virginia	..	Washington	..	West Virginia	..
Wisconsin	..	Wyoming

Forest types for Questions 13 & 14

Find the forest type for each of the regions you have entered into the table and write the number of the forest type in the corresponding box in the table.

Northeast

1. Spruce-fir
2. White-red-jack pine
3. Oak-hickory
4. Maple-beech-birch
5. Oak-pine
6. Elm-ash-cottonwood
7. Other

South Central

21. Loblolly-shortleaf pine
22. Longleaf-slash pine
23. Oak-hickory
24. Oak-pine
25. Oak-gum-cypress
26. Other

PNW West

41. Douglas fir
42. Hemlock-Sitka spruce
43. Fir-spruce-mountain hemlock
44. Alder-maple
45. Oaks
46. Other

Hawaii

62. Tropical hardwoods
63. Mangrove
64. Palms
65. Dry forest
66. Moist forest
67. Wet & rain forest
68. Lower montane wet & rain forest
69. Cloud forest
70. Other tropical hardwoods
71. Other

North Central

8. Spruce-fir
9. White-red-jack pine
10. Oak-hickory
11. Maple-beech-birch
12. Aspen-birch
13. Elm-ash-cottonwood
14. Other

Rocky Mountain

27. Fir-spruce-mountain hemlock
28. Douglas fir
29. Pinyon-juniper
30. Ponderosa pine
31. Lodgepole pine
32. Aspen-birch
33. Other

Pacific Southwest

47. Douglas fir
48. Fir-spruce-mountain hemlock
49. Ponderosa-lodgepole pine
50. Redwood
51. Mixed conifer
52. Oaks
53. Tanoak-laurel
54. Other

Southeast

15. Loblolly-shortleaf pine
16. Longleaf-slash pine
17. Oak-hickory
18. Oak-pine
19. Oak-gum-cypress
20. Other

PNW East

34. Ponderosa pine
35. Douglas fir
36. Fir-spruce-mountain hemlock
37. Hemlock-Sitka spruce
38. Lodgepole pine
39. Western larch
40. Other

Alaska

55. Hemlock-Sitka spruce
56. Fir-spruce-mountain hemlock
57. Spruce-fir
58. Alder-maple
59. Elm-ash-cottonwood
60. Aspen-birch
61. Other

Species groups for Question 15

Find the forest type for each of the regions you have entered into the table and write the number of the forest type in the corresponding box in the table.

Northeast

- 72. Eastern white & red pines
- 73. Eastern hemlock
- 74. Spruce & balsam fir
- 75. Maples
- 76. Oaks & hickory
- 77. Beech
- 78. Other

North Central

- 79. Eastern white & red pines
- 80. Spruce & balsam fir
- 81. Maples
- 82. Cottonwood & aspen
- 83. Oaks
- 84. Ash
- 85. Other

Southeast

- 86. Loblolly pine
- 87. Shortleaf pine
- 88. Longleaf pine
- 89. Slash pine
- 90. Yellow-poplar
- 91. Oaks
- 92. Sweetgum
- 93. Other

South Central

- 94. Loblolly pine
- 95. Shortleaf pine
- 96. Longleaf pine
- 97. Slash pine
- 98. Yellow-poplar
- 99. Oaks
- 100. Sweetgum
- 101. Other

Rocky Mountain

- 102. Douglas fir
- 103. True fir
- 104. Englemann & other spruces
- 105. Ponderosa & Jeffrey pines
- 106. Lodgepole pine
- 107. Cottonwood & aspen
- 108. Other

PNW East

- 109. Ponderosa & Jeffrey pines
- 110. Douglas fir
- 111. True fir
- 112. Lodgepole pine
- 113. Englemann & other spruces
- 114. Western larch
- 115. Western hardwoods/oaks
- 116. Other

PNW West

- 117. Douglas fir
- 118. Western hemlock
- 119. True fir
- 120. Red alder
- 121. Western redcedar
- 122. Western hardwoods/oaks
- 123. Other

Pacific Southwest

- 124. Douglas fir
- 125. True fir
- 126. Ponderosa & Jeffrey pines
- 127. Redwood
- 128. Sugar pine
- 129. Lodgepole pine
- 130. Western hardwoods/oaks
- 131. Other

Alaska

- 132. Western hemlock
- 133. Sitka spruce
- 134. Western redcedar
- 135. Englemann & other spruces
- 136. Other

Hawaii

- 137. Tropical & subtropical pines
- 138. Other tropical & subtropical pines
- 139. Tropical & subtropical palms
- 140. Tropical & subtropical hardwoods