



**Manual for
Continuous Forest Inventory
Field Procedures**

Bureau of Forestry
Division of State Parks and Recreation
February 2014

Massachusetts Department Conservation and Recreation

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Preface

The purpose of this manual is to provide individuals involved in collecting continuous forest inventory data on land administered by the Massachusetts Department of Conservation and Recreation with clear instructions for carrying out their work.

This manual was first published in 1959. It has undergone minor revisions in 1960, 1961, 1964 and 1979, and 2013. Major revisions were made in April, 1968, September, 1978 and March, 1998.

This manual is a minor revision of the March, 1998 version and an update of the April 2010 printing.

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Introduction

The bulk of the manual you hold (its format and design) was the creation of the late William "Bill" Rivers, Program Supervisor of Management Forestry. It is apparent that Bill took great pride in being thorough and explicit in the instructions contained in this field manual. Although there are numerous small changes made in procedure, mostly dealing with improvements in technology, they are minor overall in an effort to maintain a high level of consistency from the previous measurement. The review of these inventory procedures and edits to this manual were completed with the invaluable assistance of Professor Matt Kelty, Lena Fletcher, graduate student and Avril L. De La Cretaz, Research Assistant of the University of Massachusetts Department of Natural Resources Conservation; Joe Mawson, retired University of Massachusetts forestry professor; David Goodwin, Assistant Program Supervisor of Management Forestry; Kris Massini, Management Forester and the entire Management Forestry staff. The following paragraphs are condensed from Bill's 1998 Acknowledgements and Introduction and edited for historical relevance.

Massachusetts' Continuous Forest Inventory (CFI) system was instituted in 1957 and shortly thereafter 93 plots were established on the October Mountain State Forest in Berkshire County. The plots are mechanically located on a half-mile grid on all properties administered by the Division of State Parks and Recreation within the Department of Conservation and Recreation. The late Chief Forester John H. (Jack) Lambert, Jr. saw the need for such a program and, with the support of Commissioner Charles H. W. Foster, put it in place. Thanks to his perseverance, those interested in the dynamics of Massachusetts' forests have a data set that is one of the oldest in the nation available for their use.

The Massachusetts program was modeled after those established in the Lake States by Bill Barton, Cal Stott and others employed by the U.S. Forest Service. They made a number of trips to Massachusetts in the 1950s and 1960s to share their expertise with state personnel. Dr. Charles Lockhard of the U. S. Forest Service and the University of Massachusetts was also an early contributor.

The following quote of Chief Forester Lambert from the agency's 1960 Annual Report sums up the agency's purpose in establishing the system.

An inventory of this type is based on a mechanically laid out network of permanent one-fifth acre plots which are to be measured and re-measured periodically on our state forests. Due to the periodic measurement of all trees above sapling size on these plots, a very accurate record is made of growth, drain and mortality of the forest area from time to time. This allows a periodic trial balance of what we have. It gives a sustained stability and control of all management and production. It puts the forest administration on a sound basis with no guess work. It establishes periodic production goals and provides a sound basis for regulating the cut. It determines the progression of cutting cycles or periods and serves as a guide for partial cutting and various silvicultural practices.

*It is a constant gauge of forest management - success or failure.
It secures important information for continuously growing high quality,*

high value timber products in fully stocked stands.

It screens out the major forest problems for prompt solution, by allowing a constant critical view of the forest production. It can be used to draw up sound policy statements and broad management plans as a basis for good business and technical administration of Massachusetts State Forests.

Our continuous forest inventory reports will show total volume of merchantable timber by species on a per acre basis for each of the state forests inventoried as well as totals for the state forests as a whole. Breakdown of these volumes will also be by product and quality classes as well as amounts of culls. Reports will show the amount of cultural work needed to improve the quality of our stands.

A great many changes have taken place, both in the field of forest management and in society itself, in the last 50 years. While the original purpose of acquiring the State Forests in Massachusetts (the first one, the Otter River S. F. was acquired in 1915) was to produce timber, their purpose has been expanded over the years, both by legislation and policy, to include the provision of recreation, the enhancement of wildlife habitat and many other ancillary values. Interestingly, the most practical way of managing these lands for these multiple benefits is through the use of various silvicultural practices. From a broad perspective, the effectiveness of these silvicultural activities can be best gauged by an inventory system such as CFI. It should be noted that a CFI system alone is not an adequate planning tool for all purposes. It has proven most useful (and statistically relevant) in planning at the district (35,000 acres) and statewide levels. In practice, it is part of a hierarchical system and should be supplemented with an inventory having stand-level resolution in concert with a Geographic Information System (GIS) using spatial data to plan day to day activities at the compartment and stand level.

Since 1957, the types of data acquired have undergone a number of modifications that have reflected contemporary thought and changes in technology. This has taken the system from a commodity-based assessment to one in which the information will help us understand how forests change through time, both from an economic and an ecological perspective.

The information gleaned from CFI is not only of value to state forest managers, but to all those having an interest in or who own forest land in southern New England. Because plots have been established on a wide range of sites across the Commonwealth they can be considered to be representative of privately-owned forest land as well. Researchers have used the data in studies relating to a number of issues relating to forest health - most notably, beech bark disease, ash dieback and ozone damage to black cherry. By understanding how trees and aggregations of trees move through time, both biologically and economically, landowners and foresters will be able to make better informed decisions about the management of forests.

Today there are over 1,760 CFI plots established on DCR, Division of State Parks and Recreation property. Most of these plots have been visited on three occasions. The first two measurements were carried out in the 1960s and were five years apart. Re-measurements were carried out in 1977 and 1978 by Young Adult Conservation

Corps (YACC) crews employed by the Department of Environmental Management and then again in 1998 – 2000 by staff Management Foresters.

William N. Hill

Management Forestry Program Supervisor

2014

Plot Location and Establishment

Crew

A crew shall consist of at least two persons. One must be a formally trained forester or forest technician with experience in marketing. They shall be capable of neat work carried out in a scientific manner. These requirements are necessary for accurate and efficient performance. On the plot, all measurements are taken either by the forester directly, or by members of the crew under the guidance of the forester. All quantitative plot and tree decisions are made by the crew forester.

Equipment

A list of equipment common to both plot establishment and re-measurement is itemized below:

Field book with plot locations

Manual of field procedures

Copy of topographic map with plot locations

Electronic data recorder and tally sheets, clipboard and pencils

Data from previous C.F.I. measurement

Hard hat

Cruiser's vest

Light axe or hatchet

Paint; "Nel-Script" or equivalent

Bark scribe

Paint brush

Paint scraper

Plot monumentation: (2.5' length of 1" schedule 40 pvc, and 18" length of 1/2" rebar)

Compass (one graduated in quadrants, the other in azimuths)

100' steel drag tape or non-metallic tape

200' fiberglass tape for coarse woody debris transects

52.7' plot tape or 75' logger's tape

20' diameter tape

10 factor prism or angle gauge

Clinometer, laser instrument or other height measuring device

LOCATION OF ESTABLISHED PLOTS

The crew will be supplied with large scale maps and locus maps of the plot locations in addition to the geographic coordinates of the established plots. The coordinates will be in the Massachusetts State Plan Coordinate System, North American Datum (NAD) 1983. The crew will navigate to established plots using monumentation records, data from previous C.F.I. measurements and a global positioning system (GPS) unit.

Established plots are divided into two groups:

1. Plots with GPS locations. These will not require the acquisition of a point feature type at plot center.
2. Plots without a GPS location. The coordinates of these plots have been created from "screen digitizing" a point feature. A point feature type will be recorded at plot center by collecting a minimum of 180 positions with a maximum observed PDOP of 6.0.

If a plot center is missing or has been destroyed, a new plot center shall be re-established in the correct location using witness trees, plot tree locations and instructions in the *Monumentation* section below.

The Field Book

The clothbound engineer's field books will be used to record new CFI plot locational information. Use a field book with either transit or cruiser's transit ruling: The ruled page is devoted to narrative instructions for locating the plot and the opposite grid page is used for a sketch of the travel route to the plot. In addition to this the ruled page should, for each visit to the plot, list the date (mm/dd/yy) it was measured / re-measured and the number of trees on the plot. The type of monumentation of the plot center should also be described here and when it was installed. Any other information that might be useful in subsequent measurements should be recorded here. Examples of this might be: "Private property at starting point now posted - seek permission from _____ to cross their property"; "Last leg of travel route through swampy area", etc. Two copies of the field book should be updated as work progresses and they should be stored at separate locations. Eventually, this information will be placed in electronic format, but in the meantime, the field books are the sole source of this information.

NEW CFI PLOT LOCATION AND ESTABLISHMENT

Establishing a Starting Point

Beginning in 2010, new CFI plots will be established at provided geographic coordinates. The crew will navigate to the plot center/geographic coordinate provided, using a global positioning system (GPS) unit. The GPS observed Position Dilution of Precision (PDOP) measured by the GPS unit should not be more than 6.0.

On the map, a permanent and easily recognizable starting point near the plot location is selected. Obvious features which might be selected for starting points are: road junctions, bridges, buildings, forks in streams, boundary corners, etc. For efficient plot

relocation, the starting point should be marked with the plot number painted on a tree or some permanent object. It is also useful to paint a second number along the line of travel within sight of the starting point in case the primary starting point is obliterated through road maintenance or some other cause. Geographic coordinates will be collected with the GPS along the line of travel. Those positions will be documented in the field book and the GPS coordinate files submitted with field data.

The Route

The crew should take the most direct route to the plot - in most cases it will also be the easiest. Because GPS will be used for navigation and monumentation, there is little need to mark a detailed travel route to the new plot. Mark at least one (1) tree or other permanent object - both on the side facing the plot and on the side facing the starting point with a painted vertical line, between the starting point and the plot. These lines should be between 8" and 12" long and between 1" to 2" wide. They should be made at eye level and be visible along the travel route to the plot. Bear in mind that visibility changes significantly with the seasons and, for that reason, one should treat the marking as if it were being done during the growing season. Good judgment should be applied here to make the line neat and easy to relocate, yet not so apparent that it will attract unwanted attention. The marked tree or object will serve as a waypoint along the route to the plot.

Geographic coordinates will be collected and stored with the GPS and recorded in the field book at each line tree/waypoint along the route. A minimum of one waypoint or line tree per 1000 feet of travel will be established when navigating to the new plot.

Traveling the Route to the Plot

Using a GPS unit, follow the calculated route (bearing and distance) between the starting point and the plot center. Care should be taken to remain as close as possible to the route established. If a more direct access route is found (path, woods road, etc.) when travelling to and from the plot, it should be mapped and recorded in the field book.

Establishing the Plot Center

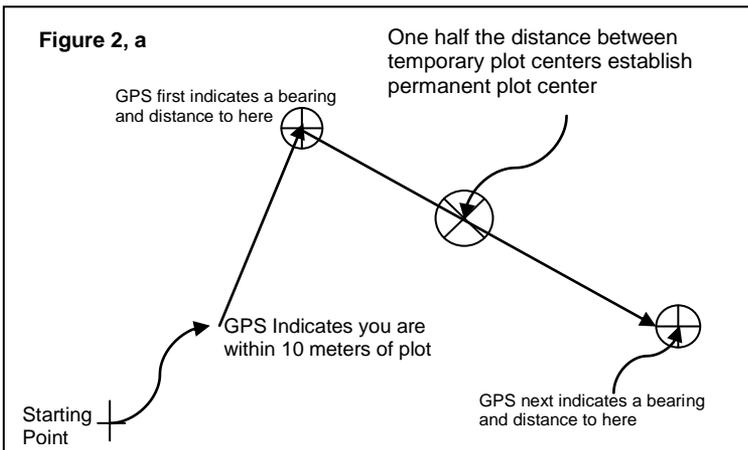
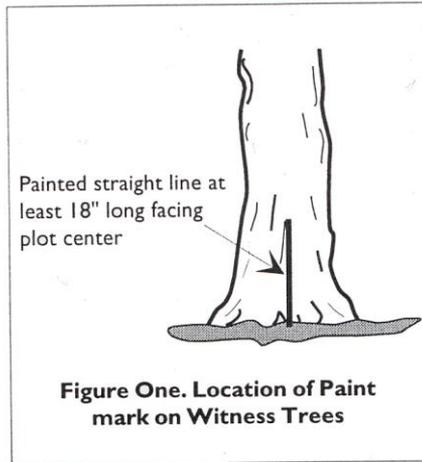
If a portion of the plot falls off state land, move the temporary plot center a minimum of 53 feet, 90° from the boundary edge so that the edge of the plot is on state property. Exception: If a portion of the plot is off state property and the plot is not vegetated, such as a road or administrative area, establish the plot center (if possible) and record all required records. Document in the comments section of the field or electronic forms all situations and decisions made in these cases.

If the plot center falls on a state highway or town road or cleared right-of-way that is not part of the state facility, it is recorded as no plot. If the plot center falls in a state forest road, it should be moved 10 feet from the edge of the roadway. If the plot center falls in a brook, it should be moved to the bank. Once this is done, follow the procedures for establishing the permanent plot center that follow.

Establishing the Plot Center and Witness Trees

When the GPS first indicates that you are 10 meters (~1/2 chain) from the target plot center, immediately note from the GPS unit, the bearing and distance to the intended destination. Use the hand compass and tape and travel the indicated bearing and distance. Upon arriving at that position, create a temporary plot center and again note the bearing and distance to the intended location and travel to that location. Equally divide the two temporary plot centers and establish the permanent plot center (See Figure 2a).

Mark on the ground where the plot center falls. This will be used as the permanent center and will be witnessed with at least 3 trees, boulders or other permanent objects by bearings and distances which are recorded in the field book. A vertical line, 12-18 inches long is painted on each witness tree selected. The line is centered on the tree's circumference and faces the direction of the plot center. The bottom of the line should touch the ground line (see figure 1).



Placement of permanent plot center using GPS unit

The plot center will be permanently located as described in monumentation below. The permanent plot center shall be witnessed with a minimum of 3 trees or boulders by bearing and distance (see figure 2b)

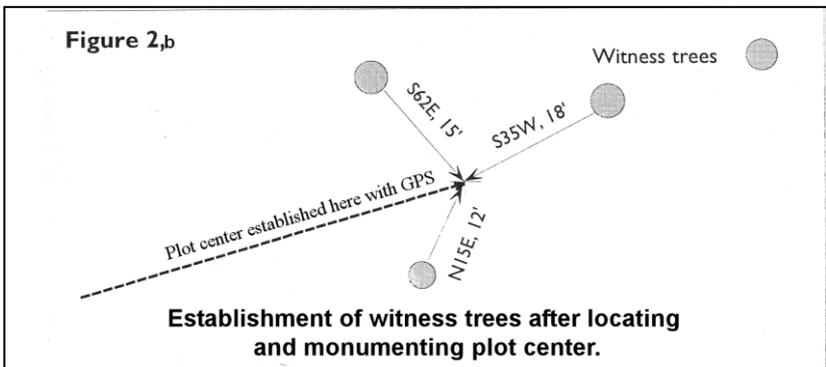
A sketch is made in the field book listing the bearings, distances and any other pertinent data that is necessary to relocate the plot center.

Monumentation

In the past, plot centers were monumented using a variety of methods; cedar or treated pine posts and sawn 2" x 2" locust posts being the most common. To facilitate relocating plot centers in the event of fire, vandalism or an extended interval between measurements the following procedures will be used. For all re-established plots and new plots, the permanent plot center shall be monumented with a 18" length of 1/2", rebar driven flush with the ground surface over which is driven a 2 1/2' length of one-inch I.D., white, "Schedule 40" PVC pipe. The bottom end of the pipe shall be cut at a 45 degree angle and the top at a 90 degree angle for ease in driving. The PVC pipe should be driven at least 12" into the ground. If frost is present it may not be possible to drive either the PVC or the rebar into the ground. If this is the case, the plot shall be revisited the following spring or summer to monument the plot center.

The purpose of using this method is that the plot center can easily be relocated with a metal detector if the PVC stake is accidentally destroyed or is vandalized. If the plot center falls on a ledge and it would have to be moved more than ten feet (+/-) to a spot where the center stake can be driven an "X" should be painted to mark plot center and witnessed as in Figure 2b.

A notation shall be made in the field book to indicate what type of monumentation was installed and when, as well as any difficulties that might have been encountered in the plot's establishment or re-establishment.



Establishing the Plot Perimeter.

Trees at or near the plot perimeter are checked with a fixed radius plot tape or a tape held at 52.7' from the plot center to determine whether they are in or out of the plot. The plot radius is measured to the center of the tree (with the tape held at stump height) from the plot center forming a right angle to the plot radius. To do this, (1) pull the tape on one side of the tree, determine tree's mid-point, and (2) do the same on the opposite side of the tree. (See figure 3.) The zero end of the tape may be attached to the plot center stake with a cap and screw eye or similar device so that one person can accomplish this task alone.

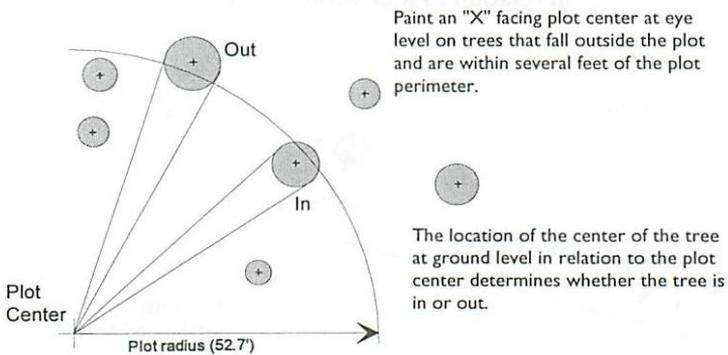


Figure 3. Borderline Trees in Relation to Plot Center

On level to gentle slopes, the plot tape can be held straight and level and the distance can be measured directly.

On steeper slopes, a plot radius correction must be made as each individual borderline tree is checked. A table of slope corrections is provided in the appendix. Use of a laser instrument to determine in or out trees is recommended on slopes greater than 15% (see below).

Trees determined to be outside of the plot and within several feet of its perimeter shall be marked with a painted "X" at eye level to indicate that they are out and to aid in the final visual check made from plot center to ensure that all trees on the plot were measured.

A laser instrument may also be used for this purpose. However, it is critical to add 1/2 of the tree's diameter to the reading from plot center to the measured distance since the reading will only be to the outside of the tree facing the plot center.

Tree Data

Proceed to number and tally the trees in a clockwise direction within the plot perimeter. Include all witness trees in the tally if on the plot (figure 4). In re-measurements, all new or in-growth trees are numbered in the same manner beginning with the highest unused number from the previous measurement. Tree numbers shall be painted with permanent or industrial paint on each standing tree facing the plot center. It should be painted between 6" and 12" below the DBH mark. Existing painted tree numbers shall be refreshed if needed.

Note: If previously recorded trees are found to be not on the plot and those trees were previously recorded as being in, (for ex. a previously recorded tree appears to be 53' from plot center) first, make absolutely sure that the tree is outside the plot perimeter. Measure the distance to the tree in question correcting for slope as accurately as possible. On very steep slopes, a laser tool must be used. **If the tree is determined to be outside the plot do not record any data for the tree** but record on the plot form in the comments section that the situation has occurred.

Azimuth

The true azimuth (0 to 360) from plot center to the center of each tree at ground level is recorded to the nearest degree.

Distance

The distance from plot center to the face of each tree at breast height is recorded to the nearest tenth of a foot for each tree on the plot.

Azimuth and distance does not need to be measured and recorded for previously measured trees unless the crew notes a significant error in the last measurements data.

Tree Species

Alphabetical Listing

Ash, other	56	Hickory, all	60
Ash, white	55	Larch, Amer.	16
Basswood	58	Larch, others	17
Beech	54	Locust, all	69
Birch, black	51	Maple, sugar	20
Birch, gray	93	Maple, red	21
Birch, red	52	Oak, black	31
Birch, white	53	Oak, chestnut	41
Birch, yellow	50	Oak, northern red	30
Butternut	71	Oak, other	45
Cedar, red	14	Oak, scarlet	32
Cedar, white	13	Oak, swamp,	43
Cherry, black	76	Oak, white	40
Chestnut	73	Other, all	90
Elm, all	61	Pine, other	15
Firs, all	05	Pine, pitch	09
Gum, black (tupelo)	66	Pine, red	11
Hemlock	06	Pine, white	01

(Species Cont'd.)

Poplar, aspen	63	Spruce, Norway	19
Poplar, balsam	85	Spruce, others	04
Poplar, cottonwood	86	Spruce, red	02
Poplar, yellow	59	Spruce, white	03
Sassafras	96	Striped Maple	97
Serviceberry	91	Sycamore	75

Numerical Listing

Pine, white	01	Birch, black	51
Spruce, red	02	Birch, red	52
Spruce, white	03	Birch, white	53
Spruce, others	04	Beech	54
Firs, all	05	Ash, white	55
Hemlock	06	Ash, other	56
Pine, pitch	09	Basswood	58
Pine, red	11	Poplar, yellow	59
Cedar, white	13	Hickory, all	60
Cedar, red	14	Elm, all	61
Pine, other	15	Poplar, aspen	63
Larch, Amer.	16	Gum, black (tupelo)	66
Larch, others	17	Locust, all	69
Spruce, Norway	19	Butternut	71
Maple, sugar	20	Chestnut	73
Maple, red	21	Sycamore	75
Oak, northern red	30	Cherry, black	76
Oak, black	31	Poplar, balsam	85
Oak, scarlet	32	Poplar, cottonwood	86
Oak, white	40	All other/Unknown	90
Oak, chestnut	41	Serviceberry	91
Oak, swamp, white	43	Birch, gray	93
Oak, other	45	Sassafras	96
Birch, yellow	50	Striped Maple	97

Diameter Breast Height (DBH)

DBH is measured to the nearest 1/10" using a diameter tape on all live trees greater than 5.0" DBH. It may be estimated to the nearest inch on trees in status three through five (dead standing trees). The tape should be placed around the tree, perpendicular to the bole, with the tape at the top edge of the paint mark in re-measurements. Extreme care should be used to follow standard measurement procedures (see Figure 5). On new plots and in-growth trees, immediately after measuring tree DBH, scribe a line with the bark scribe on thick bark trees approximately 1" – 2" long at the exact point where the measurement was made. Or, on thin bark trees, a short, thin (3/8" to 1/2" high), horizontal mark (1" - 2" long) is painted on the tree with its top edge at the exact point where the measurement was made. This mark should face plot center. A short,

horizontal mark at DBH is painted on trees between 4.0" and 5.0" DBH to indicate that they were measured and found to be too small to tally. In subsequent measurements, when the tree has grown to size, a number will be assigned to it and its data will be collected.

Tally a tree that forks at or below 4 1/2' above the ground-line as two separate stems - measure DBH on each stem at 3 1/2' above the apex of the fork. Tally a tree that forks at least 4 1/2' above the ground-line as one stem. If there is abnormal swelling at 4 1/2', taking the DBH above the abnormality is usually the best way of dealing with this condition [Fig. 5a].

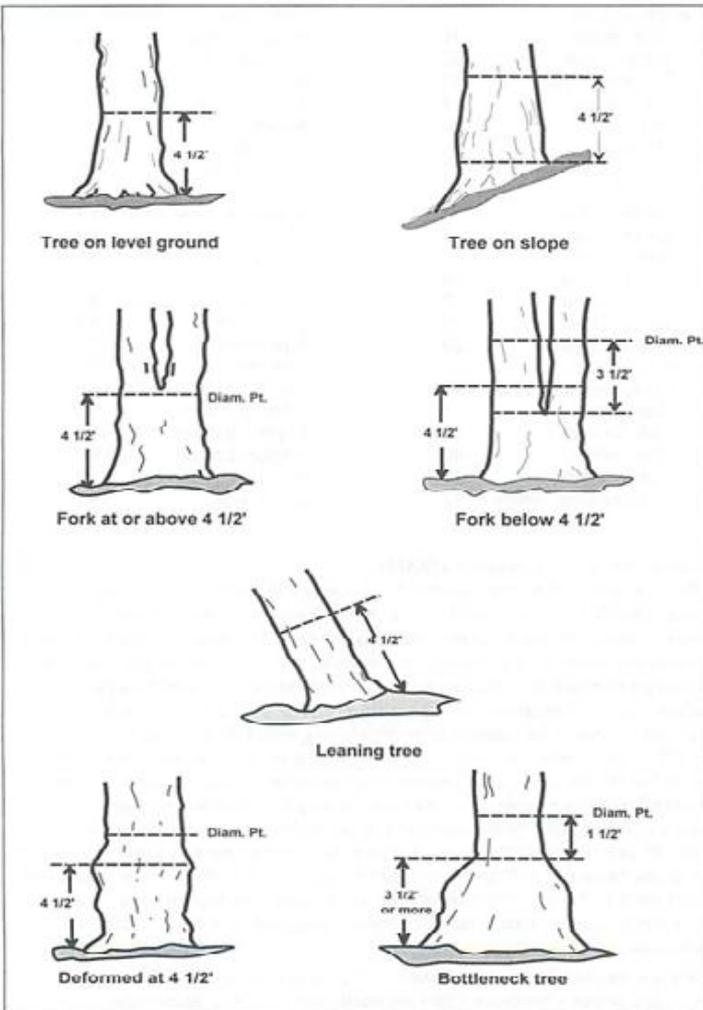


Figure 5a. Diameter Breast Height Measurement in a Variety of Situations

Unique Situations:

- 1) If trees grow together after being tallied as two separate trees (tree forks at or below 4.5') in previous measurements, and the tree has now become one tree according to specifications, i.e. the fork has 'moved' above 4.5', continue to record as two trees. Estimate DBH on 'both' trees as best as possible at original DBH heights and record situation in comments [Fig. 5b].
- 2) If the DBH on previous measurements was not established at 4.5' per standards, (for example. if the DBH was measured at 4' above the ground on the uphill side of tree) always record DBH at the previously established position. **EXCEPTION:** If the DBH position was established more than 1' either side of the standard position, re-establish DBH in the correct position and record a comment noting the change.

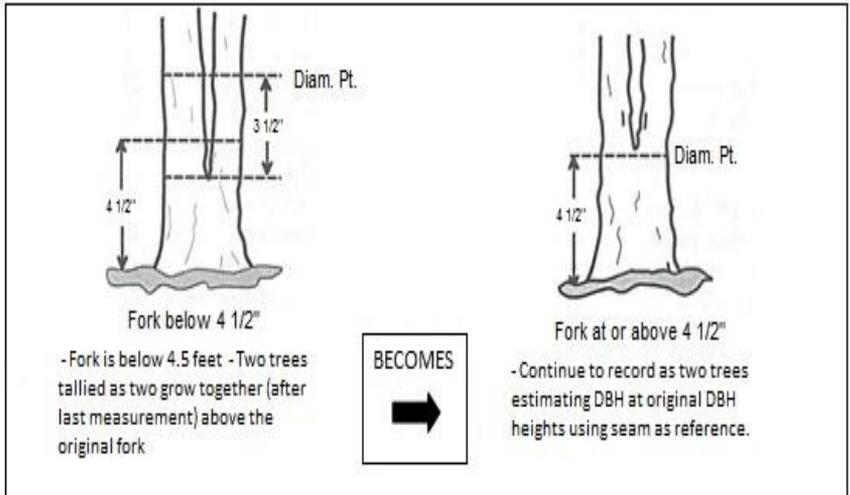


Figure 5b. Diameter Breast Height Measurement in Unique Situations

Tree Status

Each standing tree will be classified and recorded with status codes one (1) – five (5). Codes six (6) – nine (9) are used only for trees previously recorded.

- 1 New tree: Live trees 5.0" DBH and over that are being recorded for the first time.
- 2 Repeater: Live trees that have been recorded previously.
- 3 Dead, sound: Dead trees, that have died recently and are standing. They retain most of their fine branches (1" or less) and have predominantly tight bark and/or sound wood in their main stem.
- 4 Dead, partially decayed: Dead trees that are standing and retain some of their larger (>4") limbs. Most of their bark and/ or their main stem exhibits patches of decay. Their top is often missing.

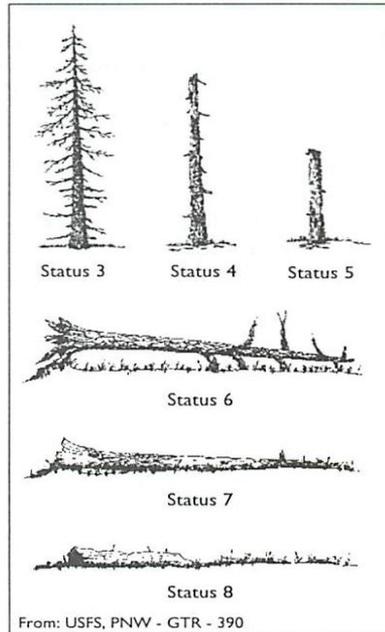


Figure 6. Tree Status

- 5 Dead, decayed: Standing dead trees that have lost most of their larger limbs (>4") and their bark and/or their main stem exhibits extensive decay. The main stem must be at least 4.5' high to be considered a standing dead tree (Status 3 through 5).
- 6 Dead, down, sound: Dead trees that have fallen recently and retain most of their bark and branches. They are supported off of the ground by their limbs. A dead tree is considered down if its bole forms an angle of less than 45 degrees with the ground or its main stem is less than 4.5' high. All live trees are either status 1 or status 2, regardless of lean.
- 7 Dead, down, partially decayed: Dead trees that have fallen and are in direct contact with the ground. They have lost most of their bark and branches and exhibit some decay in the main stem.
- 8 Dead, down, decayed: Dead trees that have fallen are completely resting on the ground and are no longer intact. They exhibit extensive decay and are almost completely decomposed.
- 9 Dead, missing: Trees that have been harvested or have been removed from the site for any other reason.

Product

Five product classes are recognized. All live trees that are between 5.0" DBH and 10.9" and greater than 50% sound are classified as growing stock trees (code 3). Trees greater than 11.0" DBH and greater than 50% sound are classified as sawlogs (code 4). Those not meeting the minimum standards for either sawlogs or growing stock (less than 50% sound) are classed as either rough culls (code 1) or rotten culls (code 2). If the volume deduction is based on the fact that the tree is rotten it is classed as a rotten cull (code 2). If it is based on crook, sweep, large limbs and the cull sections are solid wood the tree is classed as a rough cull (code 1).

Dead trees are recorded as product code 0.

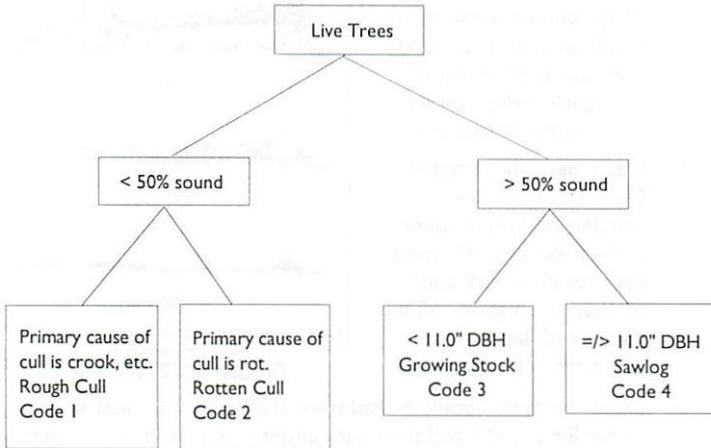


Figure 7. Schematic Representation of Product Specifications

Note that all measurements are taken on outside of bark. Good judgment is required in estimating and in identifying grading defects and estimating the size of features that cannot be easily quantified such as rot, shake, insect damage and stains.

Criteria	Rough or Rotten Cull	Growing Stock	Sawlog
Min DBH	5.0"	5.0"	11.0"
Min top DOB	4.0"	4.0"	8.0"
Min. length	no limit	8.0'	8"
Sweep (absolute)	no limit	½ top DOB	1/2 top DOB
Soundness	<50%	>50%	> 50%

Table 1. Minimum Product Specifications

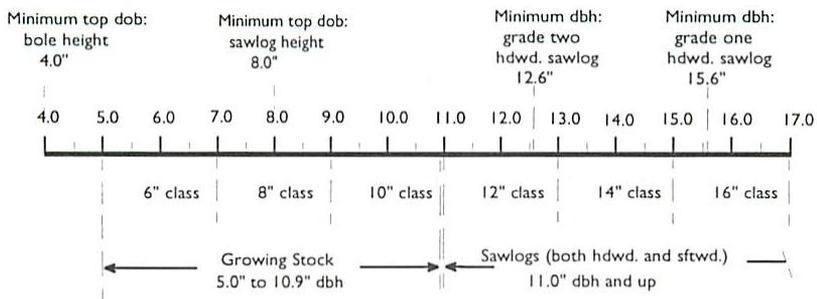


Figure 8. Critical Diameters in Mass. CFI

Sawlog Height

Sawlog Height is recorded only for sawlog trees. Sawlog Height is entered on the tally sheet as 00 for Dead Trees, Rough Culls, Rotten Culls and Growing Stock since the product volume of these trees is only calculated in cubic feet.

Sawlog height is measured to the nearest even two foot increment with a clinometer, altimeter or other device from a 1' stump to a minimum top diameter-outside-bark (DOB) of 8.0". The point on the bole at which this minimum diameter occurs is either estimated or measured with pentaprism calipers or a similar device

Sawlog Height may not extend above a fork or defective portion of the tree unless the section meets the minimum requirements for a sawlog (>8' long, > 50% sound and diameter outside bark (dob) small end of 8.0").

Sawlog Percent Soundness

Sawlog Percent Soundness is the percent of full net scale of board foot volume remaining after estimates of losses for deductible scale items such as sweep, crook, rot, excessive taper, loss of height or other defect has been deducted.

Sawlog Percent Soundness is entered on the tally sheet as 00 for dead trees, rough cull, rotten cull and growing stock trees since these trees are assumed to have no merchantable board foot volume. Cull estimates can be made using the appropriate aids for sawtimber trees (Figures 9 and 10) and recorded according to the six soundness class codes that follow.

Code 00 is used for trees that are less than 50% sound, and for those trees whose status is 3 through 9.

Soundness Class	Percent Soundness	Percent Cull
97	96-100	0-4
93	89-95	5-11
86	82-88	12-18
78	73-81	19-27
65	50-72	28-50
00	0-49	51-100

Table 2. Soundness Class Codes for Sawlog and Bole Percent Soundness

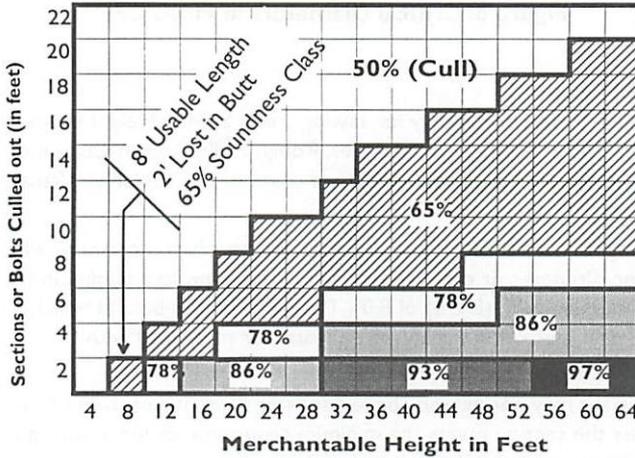


Figure 9. Percent of sound volume in butt sections of trees for direct field use.

Bole Height

Bole Height is recorded for all live and dead standing trees that are 5.0" DBH or larger regardless of their soundness or product.

Bole Height is measured from a 1' stump to a minimum top diameter outside bark of 4.0" or to a point at which the central stem is terminated before reaching 4.0" DOB. It is measured to the nearest even two foot increment, using the same techniques used for sawlog height determination. On trees that fork above DBH, bole height is measured along the largest complete section. To qualify as part of the bole, sections of sound wood above forks or cull sections must be at least four feet in length.

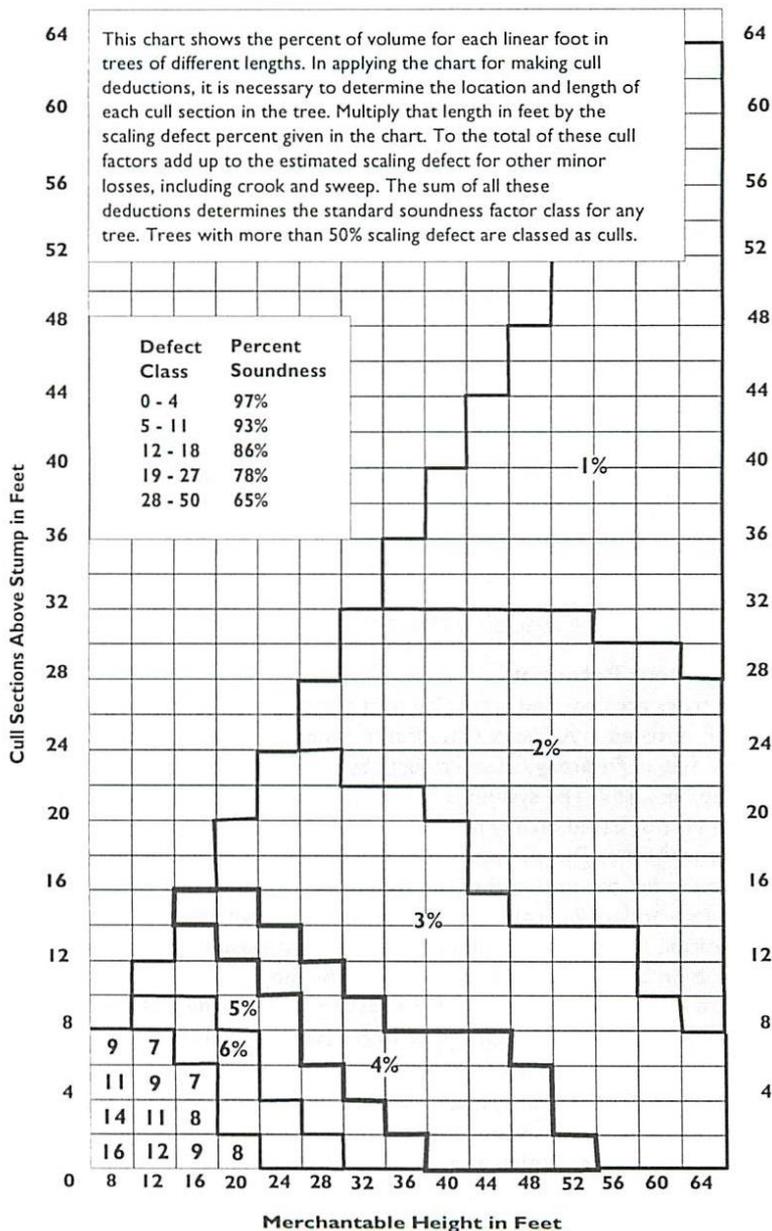


Figure 10. Percent of volume for each linear foot in trees for making cull deductions when the full section method is used.

Bole Percent Soundness Class

Bole Percent Soundness is the percent of full net scale of cubic foot volume less any decayed or missing wood or sections of the bole that are too rough to be utilized for products, including short sections with extreme crook, large forks or numerous limbs. A cull section is defined as the length of the bole that is affected.

Cull any section if it has a limb whose knot collar exceeds the stem DOB or whose aggregate knot collar diameters within a 1' section exceed the stem DOB at that section.

Cull any four foot section for sweep if a line between the centers of the ends falls outside the bark at any point.

Cull any rotten section unusable for industrial products.

Cull estimates of all live trees 5.0" DBH and larger can be made by using Figures 9 and 10.

The soundness classes are the same as those used for sawlogs and are listed in Table 2, on the preceding page.

Bole Percent Soundness is entered on the tally sheet as 00 for dead trees, rough cull and rotten cull trees since these trees are assumed to have no merchantable cubic foot volume.

Management Potential

All live trees are classified according to the procedures (and modifications thereof) outlined in *A Quality Classification System [or Young Hardwood Trees-the First Step in Predicting Future Products]*; by Sonderman and Brisbin; USFS Res. Pap.NE - 149. The system is based on a biological description of the tree and is not based on any particular product specifications that may change over time. The characteristics that are evaluated in the system are used to predict the potential of the tree to develop into one that will be structurally sound, vigorous and yield products of high value. While the classification system was developed for young hardwood trees a minor modification of it is applied to softwoods. The modification involves using limb size and weevil injuries which are factors in the grading of sawlog size white pine trees. It will be applied to larger (sawlog size) trees, both hardwoods and softwoods, as well.

To apply the classification system the following three variables are evaluated: 1. crown class. 2. sweep, crook and other defects and 3. limb count in the butt 16 foot log. Within each of these variables values are assigned that reflect the effect they might have in influencing the potential value of the tree. The sum of the three values is then used to assign a Management Potential class for the tree.

**Table 3, Criteria Used in Determining
Management Potential**

Hardwoods		Softwoods	
Applies to butt 16' log		Applies to butt 16' log	
<u>Characteristic</u>	<u>Value</u>	<u>Characteristic</u>	<u>Value</u>
Crown class		Crown class	
Dominant	4	Dominant	4
Codominant	3	Codominant	3
Intermediate	2	Intermediate	2
Suppressed, open grown or serious crown damage	1	Suppressed, open grown or serious crown damage	1
Sweep or Crook		Sweep or Crook	
(Deviation in inches)		(Deviation in inches)	
1	4	1 or less	4
2-4	3	2-4	3
5-6	2	5-6	2
7-8	1	7-8	1
9+ or any rot, forks or seams	0	9+ or any rot, forks, seams or weevil injuries	0
Limb Count		Limbs:	
(No. of live and dead limbs >1/3 inch)		Two full-length or four 8' clear faces	
1-2	4		4
3-4	3	Sound red knots do not exceed 3" diam., dead/black knots do not exceed 1 1/2" diam. on three best faces.	3
5-8	2		
9-16	1	Sound red knots do not exceed 5" diam., dead/black knots do not exceed 2 1/2" diam. on three best faces.	2
17+	0	No limit	1

The sum of the three values is used to assign a management potential class for the tree.

Sum of the three values	Management Potential Code	Equivalent NED class
10 - 12	1	Preferred Crop Tree
8 - 9	2	Acceptable Growing Stock
1 - 7	3	Unacceptable Growing Stock

Sawlog Tree Grade

Standard U.S.F.S. tree grades are applied to all hardwood and white pine that meet the minimum specifications for a sawlog tree. Note that sawlog conifers other than white pine and growing stock trees are not graded and shall be recorded as Quality 0. Sawlog tree grades are used to predict the potential output of lumber by board grades which relates directly to the relative value of the tree.

Hardwood Tree Grades

Procedure:

Table 4. contains the specifications of the hardwood tree grades for factory lumber. A tree's grade is most easily determined by the following procedure:

1. Measure DBH to the nearest 1/10 of an inch.
2. Establish the location of all defect indicators (stoppers) on the surface of the butt 16 foot log, and then determine the best 12 foot section.
3. Determine the section's worst face and discard it.
4. Grade the worst of the three remaining faces - the grade of that face is the grade of the tree.

It should be noted that both the DBH and the inside-bark diameter at the top of the grading section must satisfy the minimum requirements of the assigned tree grade (See Table 4).

The table below was taken directly from: USDA Forest Service Research Paper NE-333 (1976) "Hardwood Tree Grades for Factory Lumber" by Leland F. Hanks.

Table 4. Hardwood Sawlog Tree Grade Specifications

Grading Factor	Tree Grade 1			Tree Grade 2		Tree Grade 3
Length of grading zone (ft.)	Butt 16			Butt 16		Butt 16
Length of Grading Section (ft) ^a	Best 12			Best 12		Best 12
DBH, Minimum (ins.)	16			13		10
DIB, top of grading section (ins.)	13 ^b	16	20	11 ^c	12	8
Clear cuttings on 3 best faces ^d						
Length, minimum (ft.)	7	5	3	3	3	2
Number on face (max.)	2			2	3	Unlimited
Yield in face length (min.)	5/6			4/6		3/6
Max. cull deduction (incl. crook & sweep, but excluding shake) within grading section	9%			9% ^e		50%

- a Whenever a 14 or 16 foot section of the butt 16 foot log is better than the best 12 foot section, the grade of the longer section will become the grade of the tree. This longer section, when used, is the basis for determining the grading factors such as diameter and cull deduction.
- b In basswood and ash, dib (diameter inside bark) at top of grading section must be 12 inches and DBH must be 15 inches.
- c Grade two trees can be 10 inches dib at the top of the grading section if otherwise meeting surface requirements of small grade ones.
- d A clear cutting is a portion of a face free of defects, extending the width of the face. A face is one-fourth of the surface of the grading section as divided lengthwise.
- e Fifteen percent crook and sweep or 40% total cull deduction are permitted in grade 2 trees if size and surface of grading section qualify as grade 1. If rot shortens the required clear cuttings to the extent of dropping the butt log to grade 2, do not drop the tree's grade to 3 unless the cull deduction for rot is greater than 40%. Any tree that meets the minimum requirements for a sawlog tree; at least 11.0" DBH, > 50% sound, > 8' height, and does not meet the minimum requirements of a grade three tree is classified as a grade four tree.

Eastern White Pine Tree Grades

General Considerations.

The specifications for the tree grading system apply to merchantable un-pruned eastern white pine trees (Table 5). The grades are based on external characteristics of the butt 16-foot section of the tree and visual indications of weevil damage in the upper merchantable stem. Trees must have a DBH of at least 11 inches and have at least 50% of the gross volume in sound wood suitable for manufacture into standard yard lumber.

The grading system is designed to stratify trees into distinct value classes and to predict differences in lumber grade yield of trees sawn into standard yard lumber. The lumber-grading rules of the Northeastern Hardwood and Pine Manufacturer's Association define the grades of standard yard lumber.

Procedure

Trees are graded in one or two steps. First, a tentative grade is established for the entire butt 16-foot section, using Table 5. If the tentative grade of the grading section is grade 4, no further examination is necessary; the tree grade is a grade 4. However, if the tentative grade of the butt 16 foot section is 1, 2, or 3, examine the upper merchantable stem for weevil injuries. If the total apparent weevil injuries exceed three, degrade the tree one grade below that of the tentative grade. Also, if conks, punk knots and pine borer damage are present degrade the tentative grade one grade if any are present on one face, two grades if present on two faces and three grades if present on three faces.

Table 5. Eastern White Pine Sawlog Tree Grade Specifications

(Apply to the butt 16' of the tree)

Grading factor	Tree Grade 1	Tree Grade 2	Tree Grade 3^a
Minimum DBH (ins.)	11	11	11
Max. weevil injuries	none	none	2
Minimum face requirements	2 full-length or 4, 50% length good faces ^b	No good faces required	No good faces required
Sound red knots	Knots on balance of faces shall meet grade 2 requirements	< 1/6 scaling diam. or 3" maximum ^c	< 1/3 scaling diam. or 5" maximum ^c
Dead and black knots or overgrowths	Same as above	< 1/12 scaling diam. ^c or 1 1/2" max.	< 1/6 scaling diam. or 2 1/2" max.
Max. sweep or crook	20%	30%	40%
Max. scaling deduction	50%	50%	50%

a All trees not meeting the requirements for grade 3, but meeting the minimum requirements for a sawlog tree (min. 11.0" DBH, >50% sound, min. 8' ht.) are considered grade 4 sawlog trees.

b Trees under 16" DBH require 4 full-length good faces. A good face is one that is free of knots of any type > 1/2" in diam., overgrowths indicating larger knots and conks or punk knots.

c Scaling diameter is estimated at the top of the 16' grading section.

The above procedure and table was taken from: USDA Forest Service Research Paper NE-214 (1971) "Tree Grades for Eastern White Pine" by Robert L. Brisbin and David L. Sonderman.

Minimum DBH has been increased from 10" to 11" for consistency with MA CFI product specs.

Quality Determinant

For SAWLOG products, only. Record the primary reason why the tree fell into a lower grade instead of a grade one tree as follows:

- 0 Sawlog grade one
- 1 Size only
- 2 Grading defect only
- 3 Size and grading defect
- 4 Scaling deductions
- 5 Weevil (white pine only)
- 6 Combination of above reasons
- 7 Non-graded softwoods
- 8 Dead, cut or missing, cull trees and products other than sawlogs.

Crown Class

In multiple-age stands with understory trees of younger age classes, crown classification is often difficult. As a general rule the crown class for each tree should be judged in the context of its immediate environment; that is, those trees affecting it or being affected by it in terms of crown competition. For example, the intermediate and suppressed crown classes are intended to include only trees seriously affected by direct competition from adjacent trees.

Record crown class of all live trees 5.0" DBH and larger as follows:

- 0 Dead, cut or missing.
- 1 Open grown. - Trees with crowns which have received full light from above and from all sides throughout most of the life of the tree, particularly during its early developmental years.
- 2 Dominant. - Trees with crown extending above the general level of the crown cover and receiving full light from above and partly from the sides; larger than average tree in the stand, and with crowns well developed, but possibly somewhat crowded on the sides.
- 3 Co-dominant. - Trees with crowns forming part of the general level of the crown cover and receiving full light from above, but comparatively little from the sides - usually with medium sized crowns more or less crowded on the sides. (In stagnated stands, includes trees with small-sized crowns that are crowded on the sides).
- 4 Intermediate. - Trees shorter than those in the two preceding classes, but with crowns either below or extending into the crown cover formed by co-dominant and dominant trees, receiving little direct light from above, and none from the sides; usually with small crowns considerably crowded on the sides.
- 5 Overtopped or Suppressed. - Trees with crowns entirely below the general level of the stand receiving no direct light either from above or from the sides.

Loss Agents

Record the major mechanical and/or biological agents responsible for reduction in tree vigor, loss of growing stock potential or cause of death. When there are no major damaging agents use 00.

Mechanical Agents

00 No loss	25 Lost or dead limbs
01 Fire	26 Burls
02 Wind	27 Bulges
03 Ice (<50% of Live Crown loss)	28 Sprout Origin
05 Drought	29 Extreme Taper
06 Flooding	30 Felling
07 Shade, extreme suppression	31 Skidding
08 Extreme sunlight	32 Cut for TSI
09 Mechanically by other tree.etc.	33 Filled and Poisoned
10 Lightning	34 Girdled for TSI
11 Frost	35 Cut for Harvest
12 Extreme competition	36 Mutilation
13 Salt spray	39 Mechanical Unknown
20 Limbiness	50 Ice (50 – 75% of Live Crown loss)
21 Crook or Sweep	51 Wind (50 – 75% of Live Crown loss)*
22 Fork	52 Lean (> 45° from vertical)*
23 Lean (> 10% from vertical)	75 Ice (>75% of Live Crown loss)
24 Seams	76 Wind (> 75% of Live Crown loss)*

*Use only when tree status is 1 or 2 and plot disturbance is coded 21 Hurricane or 22 Tornado.

Biological Agents

00 No loss	11 Eutypella (sugar maple)
01 Heartrots, unknown	12 Hypoxylon (aspen)
02 Fomes ignarius	13 Strumella (oaks)
03 Fomes applanatus	14 Tympanus canker (red pine)
04 Fomes conatus	15 Blister rust (white pine)
05 Fomes fomentarius	16 Black knot of cherry
06 Fomes annosus	17 Fomes pini
07 Ustilina vulgarus	18 Dutch Elm
08 Sap rot, unknown	19 Disease unknown
09 Sterile conk	20 white pine weevil
10 Nectria	21 Sawflies

Biological Agents (continued)

22	Ants	35	Cattle and Horses
23	Hemlock wooly Adelgid	36	Deer
24	Leaf Feeders	37	Birds
25	Borers	38	Moose
26	Bark beetles	39	Biological unknown
27	Scales	40	Butternut Canker
28	Gypsy Moth	41	Sugar maple Borer
29	Insects Unknown	42	Beech bark disease
30	Beaver	43	Caliciopsis canker (w.pine)
31	Porcupine	44	Armillaria root disease
32	Rabbit	45	Diplodia blight
33	Mice	46	Winter moth
34	Squirrel	47	Chestnut Blight

Wildlife Potential

Wildlife potential is recorded for all tallied live and dead trees. It should be noted that all trees have some value for wildlife. The purpose of this field is to note trees that have attributes that make them of extraordinary value for wildlife, particularly those species that require tree cavities for their well-being.

- 0 No extraordinary wildlife potential.
- 1 Hole > 2" and < 4" diam. in sawlog portion (from stump to 8" tip) of bole.
- 2 Hole > 4" diam. in sawlog portion (from stump to 8" tip) of bole.
- 3 Dead / broken limb > 2" and < 4" diam. in sawlog portion of tree (from stump to 8" tip).
- 4 Dead / broken limb > 4" diam. in sawlog portion of tree (from stump to 8" tip).
- 5 Butt rot > 1/3 log volume loss associated w/seam, catface, mechanical injury, conks, etc. in the butt 16' log.
- 6 Rot in any upper log resulting in > 1/3 volume loss of any 8' section.
- 7 Broken top [limb(s) > 4" diam.].
- 8 Any two of the above.
- 9 Any three of the above.

PLOT DATA

PLOT DATA

PLOT NUMBER

Plot numbers are pre-assigned at the Bureau level.

COUNTY

Each county has been assigned a number.

- 01 Berkshire
- 02 Franklin
- 03 Hampshire
- 04 Hampden
- 05 Worcester
- 06 Middlesex
- 07 Essex
- 08 Norfolk
- 09 Bristol
- 10 Plymouth
- 11 Barnstable
- 12 Dukes
- 13 Nantucket

PROCESSING UNIT / DISTRICT

The Processing Units are synonymous with management forester districts and are numbered from 1 to 8. It is very important to record the district in which the plot is located at the time of the survey, regardless of the past historical boundaries and original plot locations.

- 1 Northern Berkshire
- 2 Central Berkshire
- 3 Southern Berkshire
- 4 Western Connecticut Valley
- 5 Eastern Connecticut Valley
- 6 Mid-State
- 7 Northeast
- 8 Southeast

FOREST

This four digit code is assigned to the state forest, park, reservation or satellite property to indicate where the plot occurs. A list of forest numbers is included in Appendix 1. If a plot is located on a satellite property, newly acquired property or other property not listed, record 9999, and immediately inform the Amherst office.

DISTURBANCE

Record the disturbance agent that has been most influential in affecting the development of the vegetation in the vicinity of the plot.

- 00 None
- 10 Fire
- 20 Wind
- 21 Hurricane
- 22 Tornado
- 30 Snow and Ice ('21, '42, '58, '96-'97, '08)
- 40 Other use, cleared
- 41 Beaver
- 50 Other use, pastured
- 60 Insects
- 70 Disease
- 80 Timber stand improvement
- 90 Harvest cut

YEAR OF DISTURBANCE

Record date of disturbance using the four digits of the calendar year. If the disturbance was long term (pasture, cleared for agriculture, etc.), indicate approx. year of abandonment. If the date is not known, or no disturbance, use 0000 for year.

SUB-TYPE

Record the Sub-Type in which most of the plot falls. The Sub-Type descriptions that follow are from: A FOREST LAND CLASSIFICATION SYSTEM FOR MASSACHUSETTS by Mawson, Rivers and Fischer

Key to abbreviations

Occurrence

- C = Commonly found
- U = Uncommonly found
- R = Rare in any part of the state
- E = An introduced species

Geographic Range in Massachusetts

- S = Found throughout the state
- E = Predominantly in the east
- W = Predominantly in the west

WP: White Pine:

Eastern white pine is pure or predominant. Grows well on moist, sandy loam soils.

WK: Eastern White Pine and Eastern Hemlock C-S

A large assortment of hardwoods are found with these conifers. Pine usually predominates. Although found in all counties, more usually found in Plymouth, Worcester and counties west.

WH: White Pine-Hardwoods C-S

Eastern white pine, northern red oak, and other hardwoods predominate with red maple as the chief associate. Rarely a permanent type but tends to develop into WK.

WO: White Pine - Oak C-E

Eastern white pine and northern red oak or black oak predominate. Type has some chestnut oak but usually black, red or scarlet. An assortment of hardwoods are associated.

RP: Red Pine

Red pine is pure or predominant. Chief associates are chestnut, scarlet and red oak. Found on dry soils predominantly near the coast, Cape Cod and Plymouth County, and scattered dry sites in Worcester, Franklin and Hampden Counties.

SP: Scots Pine E-S

An introduced species, always in plantations.

PP: Pitch Pine C-E

Pitch pine is pure or predominant. Chief associates are eastern white pine, scarlet and black oak. Found on dry soils predominantly near the coast, Cape Cod and Plymouth County and scattered outwash sites in Worcester, Franklin and Hampden Counties.

PO: Pitch Pine - Oak C-E

Pitch pine predominates with scarlet or red oak. In Massachusetts found where the pure pitch pine type is found and is usually the result of fire.

PS: Pitch Pine-Scrub Oak C-E

Pitch pine with *Quercus ilicifolia*. Found primarily in Plymouth County, Cape Cod and the Islands.

HK: Hemlock C-S

Eastern hemlock is pure or predominant over many associates. Found throughout Massachusetts but more prevalent in the western counties. Often is the result of cutting of pine in a WK stand. Uncommon as a natural pure stand.

HH: Hemlock-Hardwoods C-S

Hemlock and yellow birch dominant the mixture with sugar maple, beech, and red oak as associates. Found on moist sites.

TK: Tamarack (Larch) U-S

Tamarack is pure or predominant in the stand. Always associated with moist or wet sites. Uncommon and found mostly in northwestern Massachusetts in very scattered stands.

CD: Cedar R-S

Either Atlantic white cedar or eastern red cedar is predominant over any other associate.

SN: Norway Spruce E-W

Norway spruce is either pure or predominant and is the result of artificial reforestation.

SR: Spruce Red U-W

Stands dominated by red spruce and associated hardwoods such as yellow birch, sugar maple, red maple, and beech. Natural stands are found only in Berkshire and northern Franklin counties predominantly on upland sites.

SF: Spruce-Fir U-W

Stands consist predominantly of red or black spruce and balsam fir. Common associates are red maple and paper birch. Found only as a natural stand in Berkshire and northern Franklin counties predominantly on wetter sites.

OR: Northern Red Oak C-S

Northern red oak is predominant with other oaks being the chief associates.

OW: White Oak U-E Uncommon as a pure type

OC: Chestnut Oak R-E

Dry ridgetops, shallow to bedrock soils, S and W slopes, laurel understory.

OS: Scrub Oak C-E

Scrub oak, *Quercus ilicifolia*. Prevalent on Cape Cod, Plymouth County and scattered outwash sites throughout the state.

OT: Scarlet Oak U-E

Dry sites - black oak and white pine are associates.

OH: Oak-Hardwoods C-S

Stands contain mixtures of red, white, black, and scarlet oak, hickories and associated other hardwoods. Oaks and hickories predominant.

OM- Mixed Oak C-S

Stands predominantly black, white, and red oak with associates of maple and birch. If treated, these stands usually become red oak only.

BW: White Birch U-S

White birch is pure or predominant. A pioneer type that is succeeded by spruce-fir, white pine or northern hardwoods.

BM: Gray Birch-Red Maple C-S

Gray birch and red maple predominate. Generally a pioneer type found on abandoned fields; tends toward dry sites but found in some moist areas.

BB: Beech-Birch Maple C-W

The true northern hardwood type - sugar maple, yellow birch, and beech are the component species; many associated species. Climax type throughout Massachusetts but predominantly in western Massachusetts.

BE: Beech C-W

Stands predominantly beech and sugar maple. Due to past cutting, stands may be predominantly beech.

BL: Black Locust R-W

Black locust is pure or predominant. Often the result of artificial reforestation. Many associated species.

PC: Pin Cherry U-S

This is a temporary type usually found for a few years after a clearing operation (either clearcutting or after a fire). Common associates are mixtures of many hardwoods.

BC: Black Cherry U-S

A stand in which northern hardwoods predominate with black cherry the most common species.

RM: Red Maple, Swamp Hardwoods C-S

These stands are pure or contain mixtures of red maple, silver maple, black and green ash, American elm, river birch, and sycamore. A large number of associated species are found in these forested wetlands.

SM: Sugar Maple U-W

Sugar maple is either pure or predominant. Small proportions of other northern hardwoods are found. Often the results of sugarbush management.

PA: Poplar, Aspen or Willow C-S

Stands dominated by quaking aspen, bigtooth aspen or willow. Paper birch, pin cherry and red maple are common associates of this pioneer type.

AO: Abandoned Orchards C-S

Usually apple orchards abandoned around former farms, used only where more than 10 trees are observed.

JN: Common Juniper C-S

Abandoned fields where juniper poses a problem for adequate regeneration of trees or provides wildlife habitat.

LA: Mountain laurel and other laurel like plant C-S

Kalmia latifolia - mountain laurel or other laurels (azalea's) or rhododendrons. Dense cover on more acid soils.

RU: Rubus species C-S

Raspberries or blackberries ("brambles") usually on cutover areas or in small openings in the forest.

VA: Vaccinium species C-S

Blueberries, huckleberry or cranberry. Low shrub cover.

VI: Viburnum C-S

A genus that occurs across a wide range of soil and moisture conditions.

FN: Bracken fern C-S Any species of fern.

MA: Sweetfern C-S

Comptonia peregrina or *Myrica gale*. A common shrub of uplands, abandoned fields and dry sites.

GR: Grasses and forbs C-S

Ground cover of any species of grasses or forbs common to open areas and tree covered areas.

AL: Alder C-S

Any alder spp., most likely speckled alder.

BR: Upland Brush C-S

Mixture of shrubs with no single species predominating - may include dogwood, serviceberry, sheep laurel, etc. among others.

HE: Heath U-E

Bearberry, (*Arctostaphylos uva-ursi*), low-bush blueberry, etc. often associated w/sandplains.

DF: Duff C-S

Soil covered with leaf or needle litter layer with little or no other reproduction. Common under pure softwood stands and mature hardwoods.

BF: Seasonally Flooded basins and flats C-S

Occurs principally on stream floodplains. The most common plants are grasses and herbaceous species. The soil is waterlogged and covered with water during spring freshets, but well drained during the growing season.

BG: Bogs C-S

Typically acid peaty soil is waterlogged and supports a distinctive plant community which usually includes; heath, shrubs, cranberries, pitcher plants and sedges. Scattered tree cover may be present.

SS: Shrub Swamp C-S

The soil is waterlogged during the growing season and is often covered with as much as six inches of water. Common woody species are alder, buttonbush, dogwood and willow. Sedges are usually found on tussocks.

MW: Meadow C-E

Standing water is present only for short periods in the spring. Soil is waterlogged during the growing season. Vegetation is predominantly grasses, rushes and sedges.

MS: Shallow Marsh C-E

This type is wetter than meadow. The soil is completely waterlogged and often covered with up to six inches of water during the growing season. There is usually some open water and the predominant vegetation is emergent, including such plants as cattails, bullrushes, burreed, pickerel-weed and arrowhead with some grasses and sedges present.

MD: Deep Marsh C-E

Water depth ranges from six inches to three feet. Fairly large open water areas are bordered by, or interspersed with, emergent vegetation like that found in shallow marsh. Floating and submergent plants such as water lilies, duckweed, watershield and pondweeds are also present.

MT: Salt Marsh C-E

Since these areas are under tidal influence they are flooded twice daily. Vegetation is primarily saltmarsh cordgrass.

WA: Open Water

Lakes, rivers and large streams. Water depth is greater than three feet during the growing season. The boundary of coastal water is located by drawing a line at the river mouth to connect the edges of the coastline, or man-made features like roads, railroads or bridges crossing rivers or inlets are used to establish it.

BP: Beaver Pond

These ponds resemble one or more of the above types but they owe their origin to beaver.

OP: Open C-S

Reserved for either bare land just prepared for tree planting or as the understory type for essentially ground cover overstory types.

NV: No vegetation C-S

Rock or gravel banks or open administrative land - roads etc.

MAJOR TYPE

Record the major type in which most of the plot falls. Each major type represents an aggregate of the foregoing *A FOREST LAND CLASSIFICATION SYSTEM FOR MASSACHUSETTS* types.

- 0 Non-commercial types: Where species will always be too scattered, stunted or of such poor quality to be utilized or that will not be logged for economic or other reasons. Includes Forest Land Classification (FLC) types PA, PC, TK, PO, OC, CD, BL and other types on extremely poor sites. Also open land and wetland types or any combination of these types.
- 1 White-Red Pine: Where white or red pine predominates over 50% by volume. Includes FLC types RP, WH, WP, WK. Also other pines.
- 2 Hemlock: Hemlock predominates more than 50%. Includes FLC types HK, HH, WK).
- 3 Spruce-Fir: Where red spruce predominates more than 50%. Includes FLC types SR, SF. Plantations: Norway spruce, white spruce and Japanese or European larch.
- 4 Pitch Pine - Scrub Oak: Where pitch pine predominates 50% or more. Includes FLC types PP, OS and PO). Scots, jack and other pine plantations will be included here if of poor form/quality.
- 5 Northern Hardwoods: Where beech, sugar maple and yellow birch predominate 50% or more. Includes FLC types BB, SM, BC, and BE.
- 6 Birch - Red maple: Usually a temporary type where white, grey, yellow or black birch predominates 50% or more. Climax type is not apparent. Includes FLC types BW, BM, and HH.
- 7 Oak: Wherever Oaks predominate 50% or more. Includes FLC types BL, OH, OR, and OM.
- 8 Swamp Softwoods: Where softwoods predominate 50% or more. Includes FLC types SR, TK, and CD only when potentially commercial.
- 9 Swamp Hardwoods: Where hardwoods predominate 50% or more. Includes FLC type RM.

SIZE CLASS

Record the size class of the stand dominating the site.

- 0 Non-stocked: Areas that have less than 10% stocking.
- 1 Seedling: Areas with greater than 10% stocking where the stand dominating the site is over 3' in height, and less than 1.0" DBH.
- 2 Sapling: Areas with greater than 10% stocking where more than half of the stocking of the stand dominating the site is between 1.0" DBH and 5.0" DBH.
- 3 Pole: Areas with greater than 10% stocking where 50% or more of the stands basal area is in stems 5.0" DBH to 10.9" DBH.
- 4 Sawtimber: Areas with greater than 10% stocking where 50% or more of the stand basal area is greater than 11.0" DBH.
- 9 Uneven-aged or mosaic: See stand structure. Areas with greater than 10% stocking where there is no definite size class.

STOCKING

Refers to stocking in the immediate area of the plot (approx. 500' radius) for pole, sawtimber, and uneven-aged or mosaic stands. Use the procedure outlined in accepted stocking guides for even-aged northern hardwoods, oak, red spruce, hemlock and white pine stands. For uneven-aged stands and stands to which no stocking guide exists use the basal area values that are listed. For seedlings, sapling, and ground cover or other, use percent of area covered.

<u>Code</u>	<u>From Stocking Guides</u>	<u>Percent of Area Covered</u>
0	Non-Forest, No Stocking	< 10%
1 (high)	A - or more; or 120 sq. ft. B.A./Acre+	80%+
2 (med)	B - A or 60 - 120 sq ft. B.A./Acre	60%-80%
3 (low)	C - B or 40 - 60 sq. ft. B.A./Acre	40%-60%
4 (sparse)	less than 40 sq. ft. B. A. /Acre	< 40%

STAND STRUCTURE

A description of the distribution and representation of tree age and size classes within a stand.

- 0 Non-forest, non-stocked, etc.
- 1 Even-aged, single-storied: Theoretically, stands in which all trees are of one age. In actual practice, these stands are marked by an even canopy of

(Stand Structure, cont.)

uniform height characterized by intimate competition between trees of approximately the same size. The smaller diameter trees are usually tall, spindly members of the stand that have fallen behind their associates. The greatest number of stems are in a diameter class represented by the average of the stand; there are fewer trees in the classes above and below this mean.

A single even canopy characterizes the stand. The greatest number of trees are in a height class represented by the average height of the stand; there are substantially fewer trees in height classes above and below this mean. The ages of the trees usually do not differ by more than 20 years.

- 2 Even-aged, two-storied: Stands composed of two distinct canopy layers, such as, an overstory and understory sapling layer possibly from seed tree and shelterwood operations. This may also be true in older plantations where tolerant hardwoods may become established as following thinnings.

Two relatively even canopy levels can be recognized in the stand. The frequency distribution of trees by height class tends to be bimodal. Understory or overtopped trees are common. Neither canopy level is necessarily continuous or closed, but both canopy levels tend to be uniformly distributed across the stand. The average age of each level differs significantly from the other.

- 3 Uneven-aged (sized): Theoretically, these stands contain trees of every age on a continuum from seedlings to mature canopy trees. In practice, uneven-aged stands are characterized by a broken or uneven canopy layer. The largest number of trees is in the smaller diameter classes. As trees increase in diameter, their numbers diminish throughout the stand. Many times, instead of producing a negative exponential distribution of diminishing larger diameters, uneven-aged stands behave irregularly with waves of reproduction and mortality. Consider any stand with 3 or more structural layers as uneven-aged. Logging disturbance (examples are selection, diameter limit and salvage cutting) will give a stand an uneven-aged structure.

- 4 Mosaic: At least two distinct size classes are represented and these are not uniformly distributed, but are grouped in small repeating aggregations, or occur as stringers less than 120 feet wide, throughout the stand. Each size class aggregation is too small to be recognized and mapped as an individual stand. The aggregations may or may not be even-aged.

STAND CONDITION

Stand condition is based on species age, size, quality, and stocking of the trees making up the main stand. Determine actual stand condition using the following definition as a guide. Keep in mind that a stand could be high risk, sparse and mature all at the same time. If this were the case, according to the definition, it would be classified and recorded as high risk. A stand that is both sparse and mature would be classified as sparse. The reason for this is that, logically, a high risk stand should be regenerated before a sparse stand and a sparse stand before a mature stand, etc. to maximize productivity. Generally, stands that are classified as high risk, sparse, low quality and mature dictate that they be regenerated. Stands that will generally not be managed (Reserves & Parklands) should be classified as close to the stand conditions description as possible.

- 0 Non-stocked: Those stands less than 10% stocked with commercial tree species.
- 1 High Risk: Those stands which will not survive the next ten years, or in which, due to decay, insects, disease, mortality or other factors will have a net volume loss in the next ten years.
- 2 Sparse: - Those stands that are not high risk, but which have less than 40 sq. ft. of basal area/acre.
- 3 Low Quality: Stands which are not sparse or high risk, but have less than 40 sq. ft. of basal area/acre in poletimber or sawlog trees that are classified as either acceptable or preferred growing stock.
- 4 Mature: An even-aged stand within 5 years of rotation age or beyond rotation age which does not fit into any of the above categories or an uneven-aged stand that exceeds the stocking and size criteria for that type.
- 5 Immature: Any stand more than 5 years from rotation age which does not fit into any of the above categories.
- 6 In Process of Regeneration: A stand in which work has been done to establish regeneration; site preparation, planting, seeding, shelterwood cutting, etc.

SILVICULTURAL RECOMMENDATION

This code reflects the most appropriate treatment that could be applied or is needed. Theoretically, all silvicultural recommendations are valid for the following ten year period. Record a "0" for those plots that are in a known and documented Reserve.

- 0 No treatment needed: Immature, even-aged stands reasonably stocked (between C and A level) with AGS. If uneven-aged, stand structure is close to ideal.
- 1 Clearcut: Final harvest cut. Includes patch strip and stand clearcuts.
- 2 Preparation cut: includes preparation and seed cuts in shelterwood or seed tree methods (a regeneration cut).

(Silvicultural Recommendation, cont.)

- 3 Removal cut: the final operation in the shelterwood or seed tree method (an intermediate cut).
- 4 Selection: (group or single tree) or improvement cut - used only in management of uneven aged stands. Improvement cut is used to achieve an uneven aged condition in an even-aged stand (a regeneration cut).
- 5 Commercial thinning: pole and sawtimber stands (an intermediate cut).
- 6 Salvage cut: used to salvage either dead or high risk trees.
- 7 Pre-commercial thinning: applies predominantly to sapling stands. Includes cleaning, weeding and liberation.
- 8 Artificial regeneration: planting or direct seeding.
- 9 Wildlife Habitat Improvement: objective is to improve / maintain wildlife habitat through a means other than conventional timber harvesting such as using fire, mowing, tilling, etc.

MANAGEMENT OBJECTIVE

Specify why the previous silvicultural recommendation was made.

- 0 Maintain present type no treatment.
- 1 Improve stocking of present type by planting, seeding or overstory reduction.
- 2 Maintain present type until adequate advanced reproduction is obtained either naturally or artificially.
- 3 Harvest present type and manage advanced reproduction of the same type.
- 4 Harvest present type and manage advanced reproduction of another type.
- 5 Harvest present type and regenerate it naturally or artificially.
- 6 Improve present non-stocked to well-stocked by artificial regeneration.
- 7 Convert present stocked type by artificial regeneration or reforestation.
- 8 Maintain present type and size class, apply selection, improvement or thinning.
- 9 Special treatment to enhance non-timber values (wildlife, visual resource, etc.)

REGENERATION INTERFERENCE

Record the predominant impediment to regeneration of the most appropriate species that would be grown on the site if the stand were to be regenerated today or damaged by a severe weather event such as a hurricane. If deep snow cover prohibits ascertaining if ferns or grass/herbaceous interference are present and codes 0 through 8 do not apply, enter code 9.

- 0 Adequate regeneration already in place
- 1 Little or no difficulty anticipated in regenerating
- 2 Off-site or undesirable seedling and sapling tree species present
- 3 Mountain laurel
- 4 Ferns
- 5 *Rubus* spp. (brambles)
- 6 Other shrub species.
- 7 Grass/herbaceous
- 8 Soil limitations (wet, rocky, etc.)
- 9 Deep snow cover in place - cannot determine.

PERCENT COVERAGE OF REGENERATION INTERFERENCE

Record the approximate coverage of the plot that is adversely affected by the above competing vegetation to the nearest 10% coverage class; 0 - 9% = 0, 10 - 19% = 1, 20 - 29% = 2, 30 - 39% = 3, 40 - 49% = 4, 50 - 59% = 5, 60 - 69% = 6, 70 - 79% = 7, 80 - 89% = 8, and 90 - 99% = 9.

REGENERATION

Four, six-foot radius subplots are taken on each CFI plot along the cardinal directions, 26' from plot center (Figure 11).

At each subplot the number and size class of all tree species are recorded by size class. The following size classes are recognized: size class one, $\geq 3"$ and less than one foot in height; size class two, 1' to 4.5' in height; size class three, 4.5' in height to 1.0" DBH and size class four, 1" to 4.99" DBH. Seedlings less than one foot in height (class 1) and those 1' to 4.5' in height (class 2) are counted individually up to ten and in groups of ten (11 to 20 = 20, etc.) when their number exceeds ten. For the other sizes classes (3 and 4), individual stems are recorded.

Shrubs and grass ground cover are recorded as to their estimated percent coverage of the subplot for vegetation indicator species listed in Appendix 7. Record code for cover classes: 0-10% code 00, 11-20% code 01, 21-30% code 02, 31-40% code 03, 41-50% code 04, 51-60% code 05, 61-70% code 06, 71-80% code 07, 81-90% code 09, 1-100% code 10

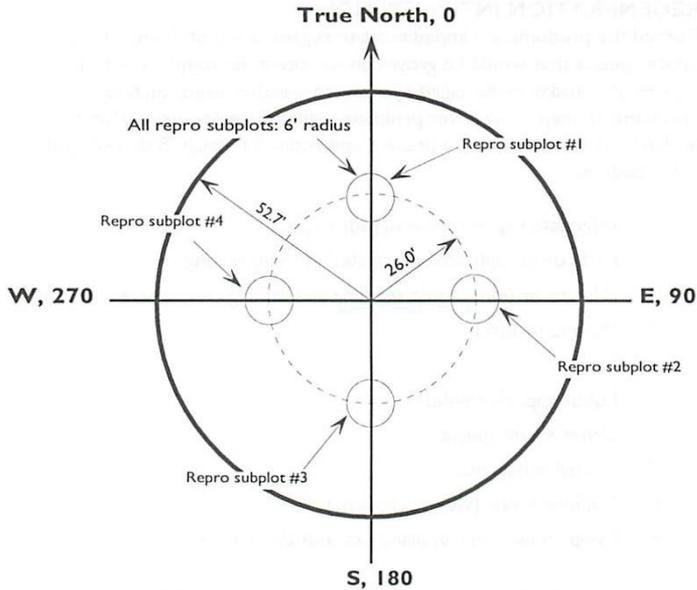


Figure 11, Layout of regeneration subplots

ACCESSABILITY

This indicates the proximity of the area in the general vicinity of the plot to a functional truck road. A functional truck road is defined as one that requires only a minimal amount of work to support a loaded log truck. Those requiring replacement of a bridge or a culvert(s) greater than 24" would not qualify as a functional truck road.

- 1 Excellent: 0 to 1/4 mile to a functional truck road, Site o.k.
- 2 Good: 1/4 to 1/2 mile to a functional truck road. Site o.k.
- 3 Fair: 1/2 mile to 3/4 mile to a functional truck road. Site o.k.
- 4 Poor: greater than 3/4 mile to a functional truck road. Site o.k.
- 5 Site o.k.: but no legal right-of-way or access in fee to a functional truck road.
- 6 Site difficult: so steep, ledgy, wet or having other characteristics that would preclude conventional timber harvesting.

VOLUME CLASS

The sawtimber volume per acre class in trees > 11" DBH within a 500' diameter circle centered on the plot. If in doubt as to which class to use, several 10 factor prism points should be taken to ascertain the correct class.

Volume Classes:

- 1 < 1 mbf/a
- 2 1-5 mbf/a
- 3 5-10 mbf/a
- 4 10-15 mbf/a
- 5 15 - 20 mbf/a
- 6 20-25 mbf/a
- 7 25+ mbf/a

TERRAIN POSITION

This item relates to the plot's location on a landform. To avoid using microsites consider no slope of less than 100' in length.

- 1 Top of slope; convex region.
- 2 Upper slope; convex region at upper edge of slope.
- 3 Mid-slope; uniform, fairly straight region.
- 4 Bench; area of level land with slopes above and below.
- 5 Lower slope; concave region at the lower edge of slope.
- 6 Bottomland; horizontal region in low-lying areas, may be subject to occasional flooding.
- 7 Flatland; regions not part of or related to slopes; may have minimal elevation changes - less than 5% slope.

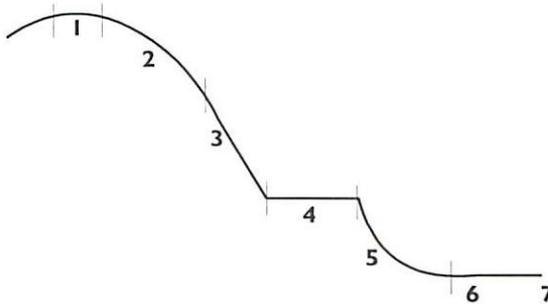


Figure 12, Terrain Position

ASPECT

Record the aspect (azimuth, 0 to 359 degrees) of the plot proper to the nearest degree.

SLOPE

Record the mean slope across plot center to the nearest percent.

SOIL TYPE

Record the 2, 3 or 4 digit NRCS (formerly SCS) code taken directly from the most recently published "Soil Survey" report for the area.

INDICATOR PLANTS

Use Appendix 7 for a complete list of species for recording understory vegetation on regeneration plots. USFS FIA codes are used for shrubs. Chestnut will be recorded as a tree on regeneration plots. Note that shrub species Striped Maple, Serviceberry, Sassafras, Scrub Oak that become tree size ($\geq 5''$) will be recorded using MA CFI Tree Codes.

NON-NATIVE INVASIVE TREES AND SHRUBS

Record up to three nonnative invasive tree or shrub species that occur on the plot. Use Appendix 8 for a complete list. If a species is noted on the plot that is not listed, use other and record a comment.

SITE INDEX

Site index curves for the more common MA species may be found in the appendix.

On newly established plots and on existing plots where there has been significant change to the plot due to harvesting or natural mortality, use the following procedure to determine site index:

Increment cores should be taken from at least two, preferably three trees in the immediate vicinity of the plot in a location that is representative of the plot (slope, aspect and terrain position). As a last resort, trees on the plot may be used as site trees, but this should be avoided since an increment borer wound is, theoretically, a grading defect. (In grading trees on a CFI plot that have increment borer wounds, these wounds should be ignored.) The trees chosen should be dominant or co-dominant in the main canopy, greater than 20 years of age and shall not appear to have suffered a period of suppression in their early development. They should be of a species representing a major component of the type (red oak in a red oak stand, white pine in a white pine stand, etc.) Preference should be given to using white pine, red oak, sugar maple, yellow birch and ash. Where these species are not present, substitutions may be made. The use of hemlock or spruce or other shade-tolerant species, unless it has been free to grow in an even-aged stand, can be problematic since they can often survive for years in a suppressed state. If a diffuse porous species (such as red or sugar maple) is used the cores should be returned to the office where they can be mounted, sanded and/or treated with phloroglucinol dye and hydrochloric acid to ascertain the ring count. For each site tree record: tree number (if the tree is on the plot), species, DBH, age, total height, and site index.

If there has not been a significant disturbance that changed the stand structure and the previous measurements of site and age are logical, record the previous measurement site index. See also stand age (below.)

STAND AGE

Stand age is most commonly based on site tree borings. Average and record the breast height age of trees that have been cored to measure site index.

If site index (see above) is not measured, e.g. trees are not cored; add the number of years since the previous measurement to the previously recorded age and record the current stand age. Note: Stand age must be re-measured if the previous measurement was recorded as "99".

If the majority of the stand is approximately 20 years of age (regeneration) increment cores should be taken from at least two trees at ground level. The selected trees should represent the stand as described above.

LAND USE ZONES

Record Land Use Zone code for the zone in which the plot falls (maintain for historical purposes in 2010 – 2019 cycle):

- 1 Protection or patch reserves. Plot falls in area where sustained (500' long) slopes generally exceed 35%, unstable soil exists and site cannot support conventional timber harvesting equipment without serious degradation of the site.
- 2 Reserve, Administrative. Reserve areas are those areas that are "set-aside" from the traditional land management base. Management of area often constrained by a documented, unique cultural feature.
- 3 Unique, natural. Management of area constrained by plot falling within a designated "Backcountry" or "Representative Natural Area".
- 4 Intensive recreation. Management of area constrained by the plot falling within a day-use area, campground or other facility where there are formal recreation facilities. Trails (with the exception of rail trails and interpretive trails) are not included in this category.
- 5 Administration. Management of area constrained by plot falling within an administrative facility such as a headquarters complex, etc.
- 6 Resource Management or Working Woodland . Area managed for multiple benefits primarily through the application of silvicultural practices.

LANDSCAPE DESIGNATION

Record the category of Landscape Designation in which the plot is located. Appendix 9 contains a complete listing of CFI Plots, the DCR Properties on which they are located with its Landscape Designation.

- 01 Reserve
- 02 Parkland
- 03 Woodland

DATE

Record the date of the plot establishment or re-measurement. Use mm/dd/yy format.

FORESTER

Record initials of the forester that carried out the re-measurement or establishment.

COARSE WOODY DEBRIS (CWD)

On each plot, except as noted for Intensive Monitoring Areas (IMA) establish three transects (each 100 feet in length) radiating out from the plot center along azimuths 30°, 150°, 270°. An inventory record will be established for all transects at each plot. If there is no CWD on a transect the record will have a tally of 00 and plot condition recorded in the comment field.

Measure every qualifying piece of CWD that the transect crosses. Note Figures 13a – 13e for CWD sampling rules. Qualifying pieces are those where the transect crosses its central axis, are ≥ 3 inches in diameter at the transect intersection, ≥ 3 feet in length, resting at an angle $< 45^\circ$ from the horizontal, and not supported by a bole or root system. For each qualifying piece of CWD record the following:

1. Plot number
2. Transect orientation (30°, 150° or 270°)
3. Percent of slope along transect.
4. Species (specific species if possible, or species group (conifer/hardwood), or unknown). Code species per Tree Data – Tree Species; Unknown code 00; Unknown softwood code 99; Unknown hardwood code 90
5. Piece diameter at point of intersection with transect (1-inch precision). Record diameter at each intersection of curved pieces or broken pieces still connected. See A and B on Figure 13d.
6. Length of piece (1 foot precision to minimum 3" diameter). The full piece length of curved or broken pieces is measured at both recordings. See Figure 13d.
7. Decay class: use the following codes (see illustration in Figure 6):

6 Sound: Dead trees or branches that have fallen recently and retain most of their bark and branches. They are supported off of the ground by their limbs. A dead tree is considered down if its bole forms an angle of less than 45 degrees with the ground or its main stem is less than 4.5 feet high.

7 Partially decayed: Dead trees or main branches that have fallen and are in direct contact with the ground. They have lost most of their bark and branches and exhibit some decay in the main stem.

8 Decayed: Dead trees or branches that have fallen are completely resting on the ground and are no longer intact. They exhibit extensive decay and are almost completely decomposed.

Unique Situations: Use the following examples for special case scenarios as to whether or not downed material should be tallied.

1. Tally a piece only once if the plot center falls directly on the central longitudinal axis of the piece. Tally the piece on the 30 degree transect.

2. When the transect crosses a forked down tree bole or large branch connected to a down tree, tally each qualifying piece separately. To be tallied, each individual piece must meet the minimum diameter and length requirements. In the case of forked trees, consider the "main bole" to be the piece with the largest diameter at the fork. Variables for this fork such as TOTAL LENGTH and DECAY CLASS should pertain to the entire main bole. For smaller forks or branches connected to a main bole (even if the main bole is not a tally piece), variables pertain only to that portion of the piece up to the point where it attaches to the main bole (Figure 13c, 13e and 13f).

3. If the central longitudinal axis of a piece is intersected more than once on a transect line or if it is intersected by two transect lines, tally the piece each time it is intersected (13d).

4. If a piece is fractured across its diameter or length, and would pull apart at the fracture if pulled from either end or sides, treat it as two separate pieces. If judged that it would not pull apart, tally as one piece. Tally only the piece intersected by the transect line (Figure 13d and 13f).

5. Tally pieces created by natural causes (examples: natural breakage or uprooting) or by human activities such as cutting only if not systematically machine-piled. Do not record pieces that are part of machine-piled slash piles or windrows, or that are part of a log "jumble" at the bottom of a steep-sided ravine in which individual pieces are impractical to tally separately. A slash pile or windrow consists of broken logs, limbs, and other vegetative debris.

6. Tally a piece only if the point of intersection occurs above the ground. If one end of a piece is buried in the litter, duff, or mineral soil, the piece ends at the point where it is no longer visible. Measure the diameter and length at this point.

7. If a transect intersects a non-forest condition (e.g., parking lot), no CWD is tallied.

Figure 13. Rules for Coarse Woody Debris Measurements

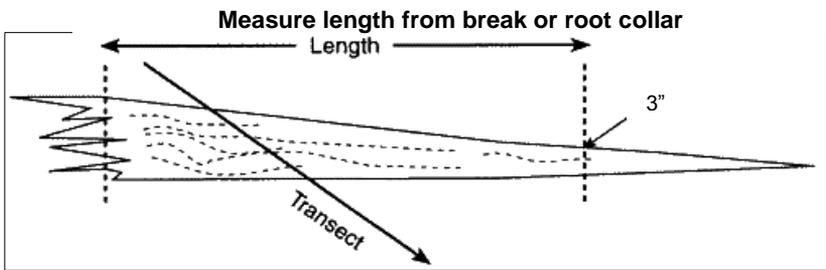


Figure 13a

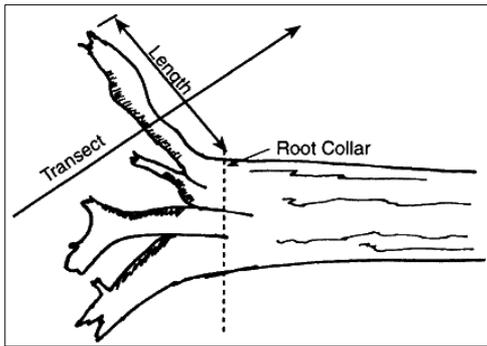


Figure 13b

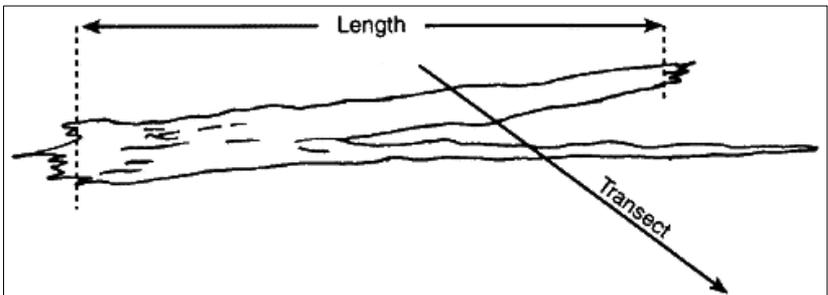


Figure 13c

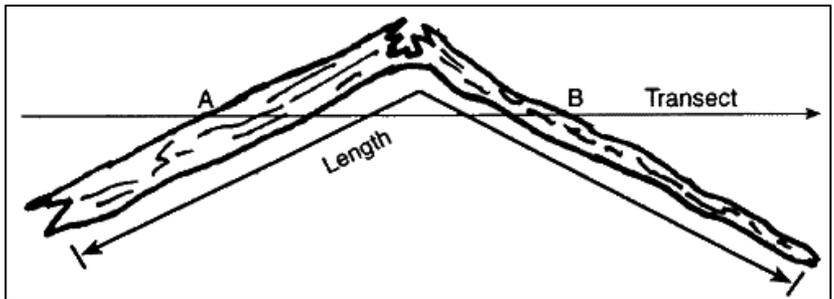


Figure 13d

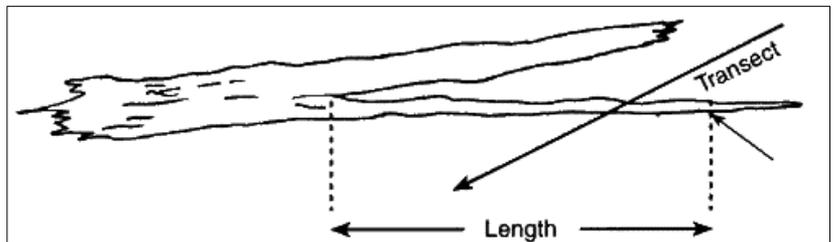


Figure 13e

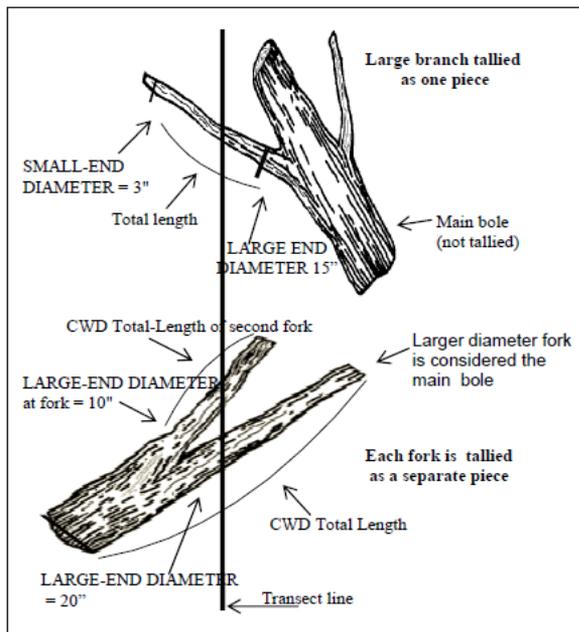


Figure 13f

STANDARDS OF ACCURACY

It is imperative that data on CFI plots is acquired with very high standards of accuracy. This is because, on average, the expansion or blow-up factor of the data is 800. That is, any values associated with the measurements are multiplied by 800 to arrive at a figure for the district, state or whatever unit the data is being aggregated for. For that reason it is expected that values will be within the following tolerances.

Tree not on plot and incorrectly tallied as on the plot – No error is allowed

Tree on the plot and not tallied – No error is allowed

Tree Species – No error is allowed

Native Shrubs and Forbs – 10% error allowed

Non-native invasive trees and shrubs – 25% error allowed

DBH: plus or minus 1/10" unless a deformed bole or rough bark is present or the tree exceeds 20" DBH at which point the tolerance will be plus or minus 2/10".

Sawlog height: plus or minus two feet.

Bole height plus or minus two feet.

Percent Soundness: plus or minus one class.

Total height of site trees: plus or minus ten feet.

Location of new plots: Within 6 meters of provided geographic coordinate.

Collection of data with GPS (line trees on routes to new plot locations, new plot locations and plot locations without GPS locations): PDOP of 6.0 or less

APPENDICES

Appendix 1: DSPR Forest Codes

Forest Number	Property Name	Forest Management District
0100	Clarksburg	1
0110	Clarksburg Park	1
0120	Taconic	1
0200	Monroe	4
0210	Rowe	4
0300	Colrain (H.O. Cook)	4
0310	Leyden	4
0400	Savoy	1
0410	Windsor	1
0420	Florida	1
0430	Deer Hill	1
0500	Mohawk	4
0600	Hawley KM Dubuque	4
0610	Buckland	4
0620	Quinnehtuk	4
0630	Catamount	4
0700	Pittsfield	3
0710	Waconah Falls	3
0720	Lindon Bates	3
0800	Conway	4
0810	Shelburne	4
0820	DAR	4
0830	Chesterfield	4
0900	Becket	2
0910	Chester/Blandford	2
0920	Huntington	2
1000	Peru	1

Forest Number	Property Name	Forest Management District
1010	Worthington	1
1100	October Mountain	2
1110	Middlefield	2
1120	Applachain Trail	2
1200	Mt. Washington	3
1210	Bashbish	3
1220	Intermann Lot	3
1230	Great Barrington	3
1240	East Mountain	3
1300	Otis	2
1400	Beartown	3
1410	Fountain Park	3
1420	Swann	3
1430	Mt. Hunger	3
1500	Sandisfield	3
1510	Tiffney	3
1520	Cookson	3
1600	Tolland	2
1610	Granville	2
1700	Warwick	5
1710	West Northfield	5
1720	Orange	5
1730	Mt. Grace	5
1800	Erving	5
1900	Wendell	5
1910	New Salem	5
1920	Shutesbury	5

Forest Number	Property Name	Forest Management District
1930	Montague	5
1940	Mt. Toby	5
1940	North Sugarloaf	5
2000	Skinner	5
2010	Chicopee	5
2020	Robinson	5
2030	Brimfield	5
2040	Ludlow	5
2100	Otter River	6
2110	Ashburnham	6
2120	Winchendon	6
2130	Templeton	6
2140	Hubbardston	6
2150	Westminster	6
2160	Royalston	6
2170	Petersham	6
2180	Federated	6
2200	Rutland	6
2210	Barre	6
2220	North Brookfield	6
2230	West Brookfield	6
2240	North Spencer	6
2250	Wells Park	6
2260	Oakham	6
2300	Leominster	6
2310	Lancaster	6
2400	Upton / Rawson Hill, Barefoot, Hop Brook, George Nichols Flood Control	6

Forest Number	Property Name	Forest Management District
2410	Sutton	6
2420	Ashland	6
2430	Quinsigamond	6
2440	Hopkington	7
2450	Whitehall	7
2500	Douglas	6
2600	Willard Brook	7
2610	Townsend	7
2620	J. Harry Rich	7
2700	Lowell Dracut	7
2710	Cochituate/Callahan	7
2720	Billerica	7
2730	Marlboro	7
2740	Carlisle	7
2800	Harold Parker	7
2810	Boxford	7
2900	Willowdale	7
2910	Georgetown	7
2920	Bradley Palmer	7
2930	Plum Island	7
3000	Franklin	8
3010	Wrentham	8
3020	Foxboro	8
3030	Bristol Blake	8
3100	Myles Standish	8
3110	Kingston	8
3120	Ames Nowell	8

Forest Number	Property Name	Forest Management District
3130	Womputuck	8
3140	Borderland	8
3200	Freetown/Fall River	8
3210	Rehoboth	8
3220	Massasoit	8
3230	Demarest Lloyd	8
3240	Rayham	8
3250	Berkley	8
3300	Nickerson	8
3310	Barnstable	8
3320	Shawme Crowell	8
3330	Sandwich	8
3340	Hawksnest	8
3400	Marthas Vineyard (Manuel Correllus)	8
3410	Nantucket	8
3500	Mt. Wachusetts	6
3700	Mt. Greylock	1

Appendix 2: Table of Slope Correction Factors

To Use: Multiply Correction Factor by desired horizontal distance to obtain slope distance. Fifth acre plot slope radius is corrected limiting distance for CFI Plot.

Slope Correction Table		
Percent Slope	Correction Factor	1/5 ac Plot – Slope Radius
1 - 4	1.000	52.7
5	1.001	52.8
6	1.002	52.8
7	1.002	52.8
8	1.003	52.9
9	1.004	52.9
10	1.005	53.0
11	1.006	53.0
12	1.007	53.1
13	1.008	53.1
14	1.010	53.2
15	1.011	53.3
16	1.013	53.4
17	1.014	53.4
18	1.016	53.5
19	1.018	53.6
20	1.019	53.7
21	1.021	53.8
22	1.023	53.9
23	1.025	54.0
24	1.028	54.2
25	1.030	54.3
26	1.032	54.4
27	1.035	54.5
28	1.037	54.7
29	1.040	54.8
30	1.042	54.9
31	1.045	55.1
32	1.048	55.2
33	1.050	55.4
34	1.053	55.5
35	1.056	55.7
36	1.059	55.8
37	1.062	56.0
38	1.065	56.1
39	1.068	56.3
40	1.072	56.5
41	1.075	56.6
42	1.078	56.8
43	1.081	57.0
44	1.085	57.2
45	1.088	57.3
46	1.092	57.5
47	1.095	57.7
48	1.098	57.9

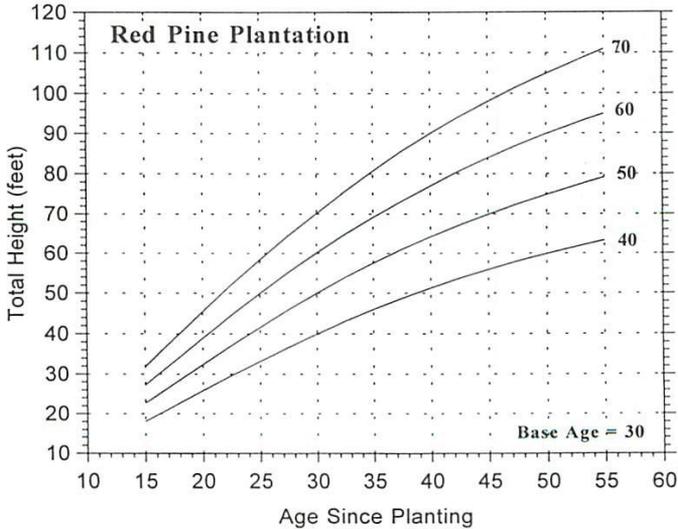
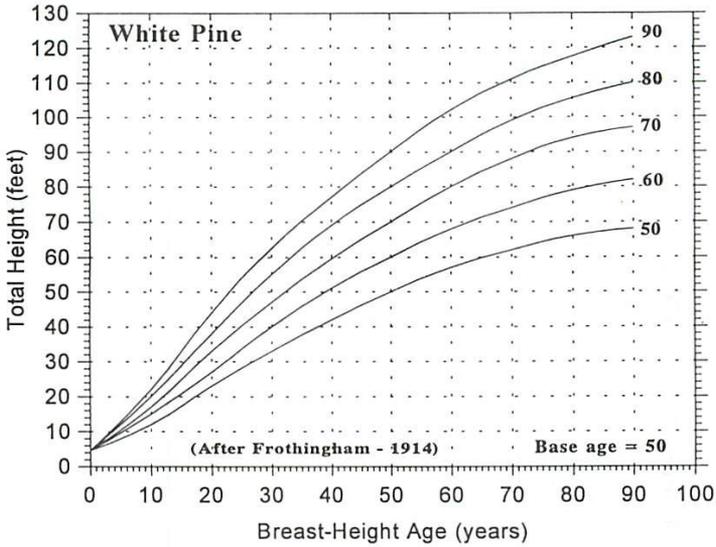
49	1.102	58.1
50	1.106	58.3
51	1.109	58.5
52	1.113	58.6
53	1.116	58.8
54	1.120	59.0
55	1.124	59.2
56	1.127	59.4
57	1.131	59.6
58	1.135	59.8
59	1.139	60.0
60	1.143	60.2
61	1.146	60.4
62	1.150	60.6
63	1.154	60.8
64	1.158	61.0
65	1.162	61.2
66	1.165	61.4
67	1.169	61.6
68	1.173	61.8
69	1.177	62.0
70	1.181	62.2
71	1.185	62.4
72	1.188	62.6
73	1.192	62.8
74	1.196	63.0
75	1.200	63.2
76	1.204	63.4
77	1.208	63.6
78	1.211	63.8
79	1.215	64.0
80	1.219	64.2
81	1.223	64.4
82	1.227	64.6
83	1.231	64.8
84	1.234	65.0
85	1.238	65.2
86	1.242	65.4
87	1.246	65.6
88	1.249	65.8
89	1.253	66.0
90	1.257	66.2
91	1.260	66.4
92	1.264	66.6
93	1.268	66.8
94	1.271	67.0
95	1.275	67.2
96	1.279	67.4
97	1.282	67.6
98	1.286	67.8
99	1.289	67.9
100	1.293	68.1

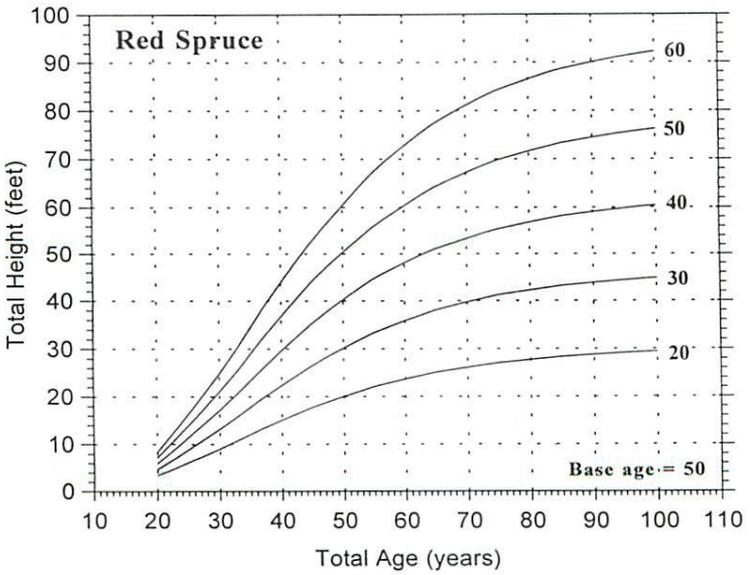
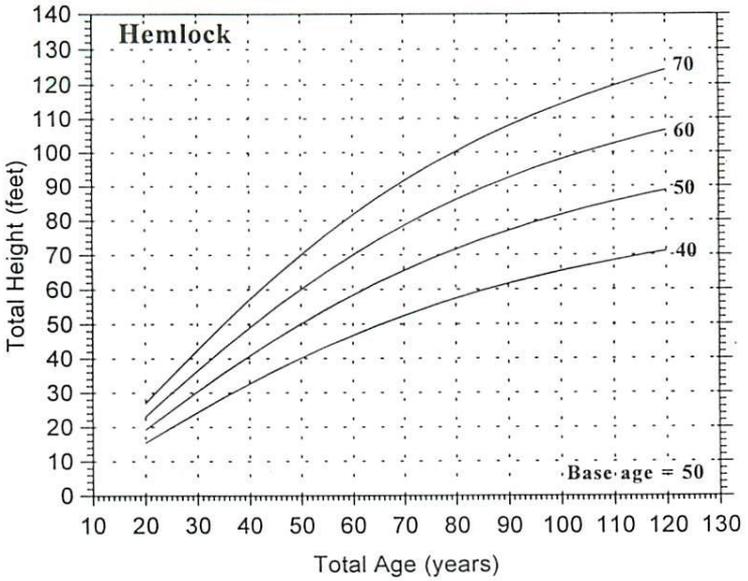
Appendix 3: Taper Table

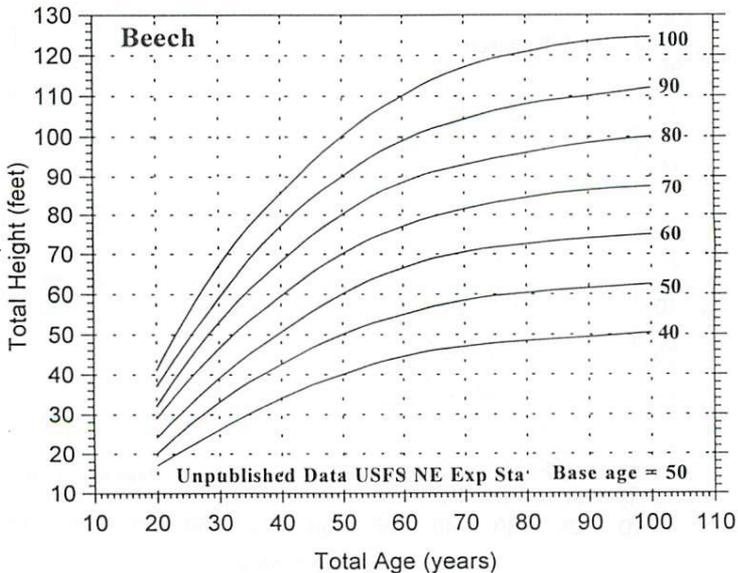
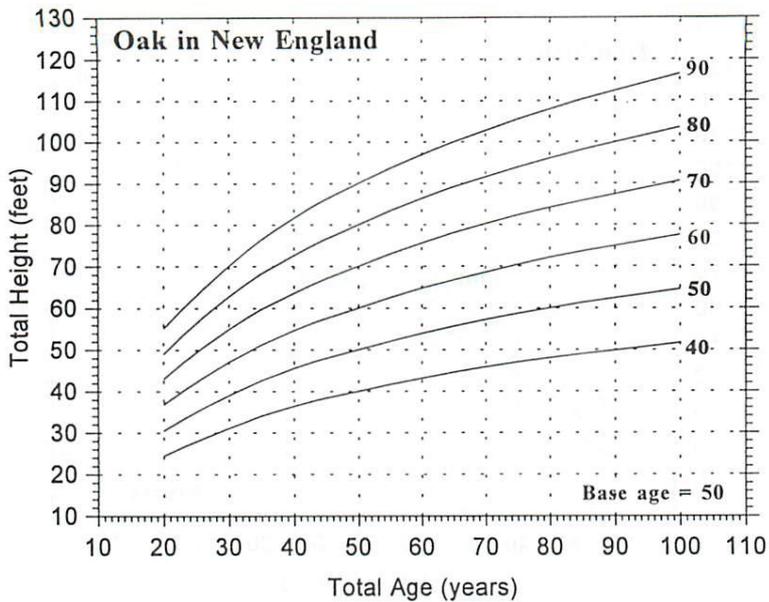
Heights to 4", 6", and 8" Top Diameter by DBH Class

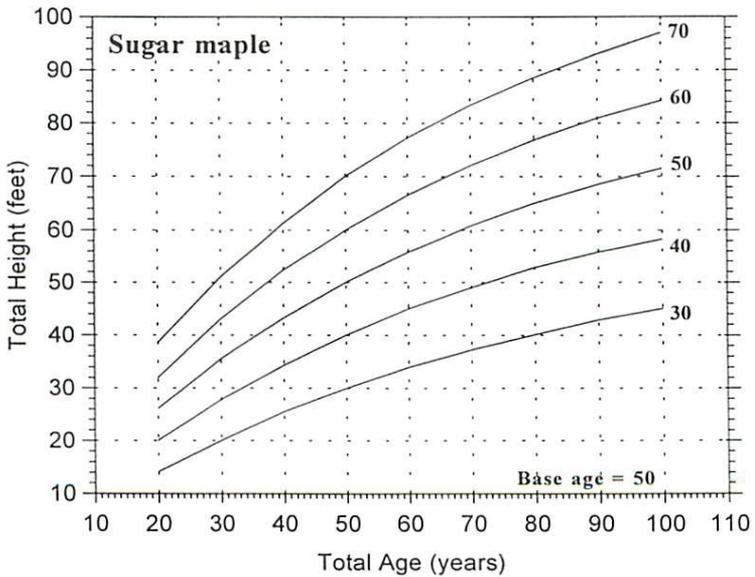
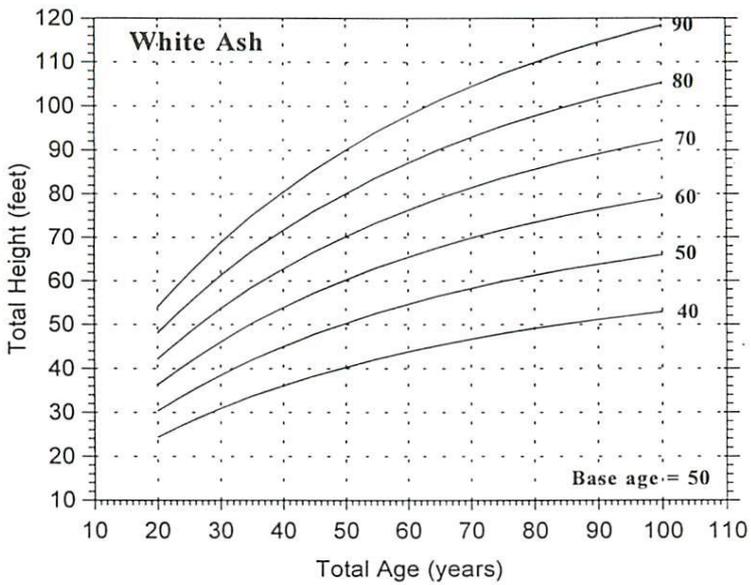
DBH	4" Top Dia.			6" Top Dia.			8" Top Dia.		
	Occurs at (feet)	Number of Logs	Total Height (feet)	Occurs at (feet)	Number of Logs	Total Height (feet)	Occurs at (feet)	Number of Logs	Total Height (feet)
8	39	2.0	61	23	1.0	4	44		
9	49	2.5	70	32	1.5	7	52	14	0.5
10	59	3.0	80	41	2.0	9	61	26	1.0
11	67	3.5	89	49	2.5	11	68	33	1.5
12	75	4.0	95	57	3.0	13	75	40	2.0
13	82	4.5	101	65	3.5	15	83	48	2.5
14	90	5.0	109	73	4.0	17	90	56	3.0
15	102	5.5	120	80	4.5	19	97	64	3.5
16				87	5.0	21	103	71	4.0
17				94	5.5	23	109	79	4.5
18				100	6.0	24	115	87	5.0
19								95	5.5
20								103	6.0
								25	6.5
								35	7.0
								45	7.5
								58	8.0
								72	8.5
								80	9.0
								86	9.5
								93	10.0
								100	10.5
								108	11.0
								115	11.5

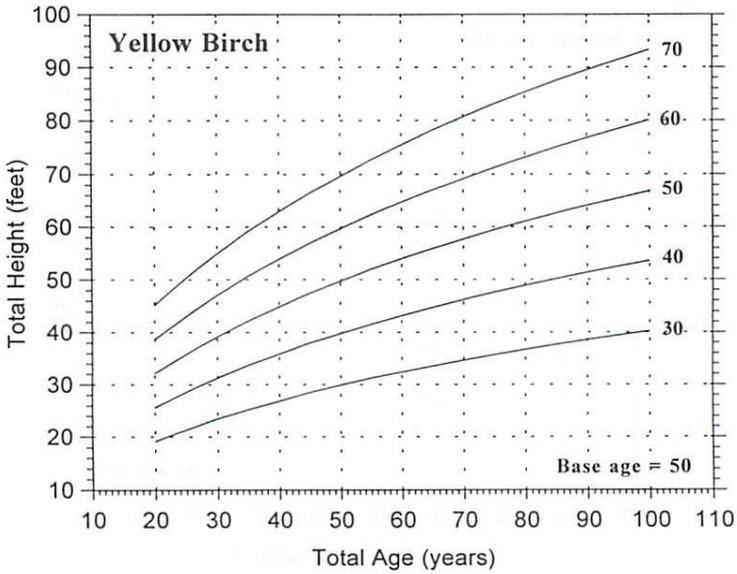
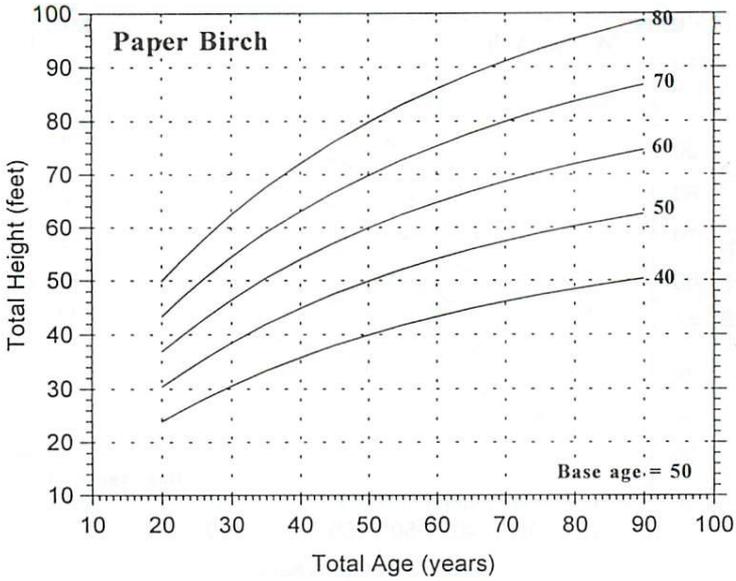
Appendix 4: Site Index Curves

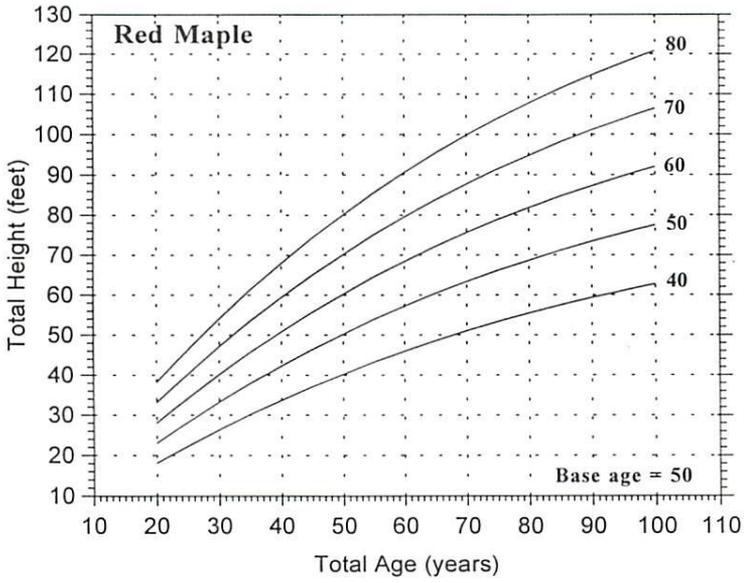






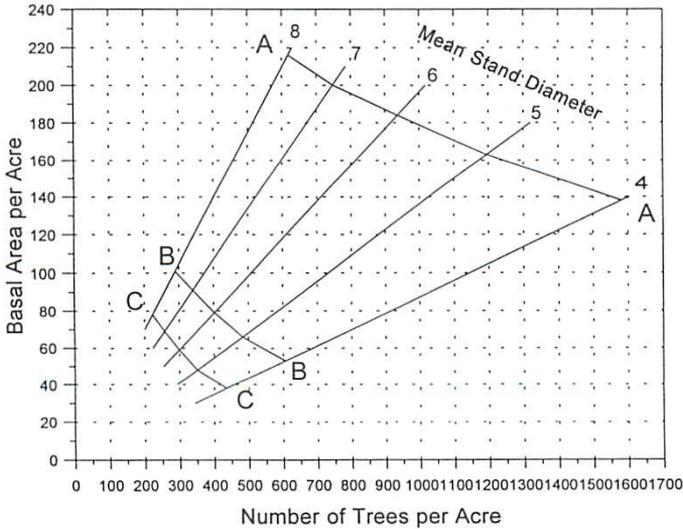
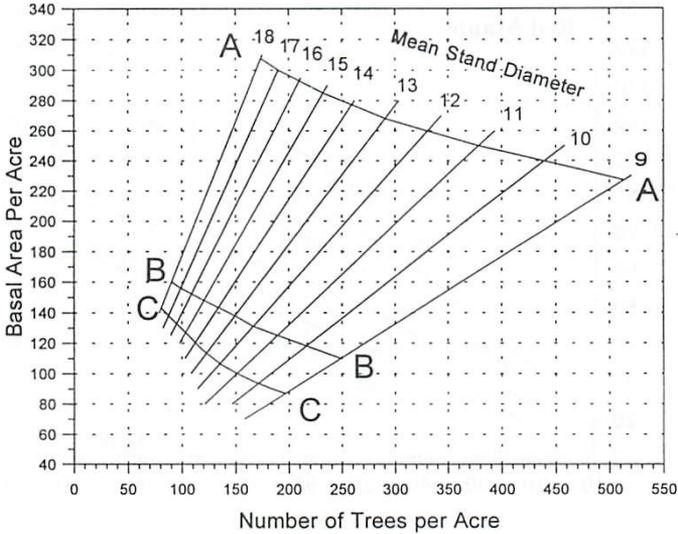




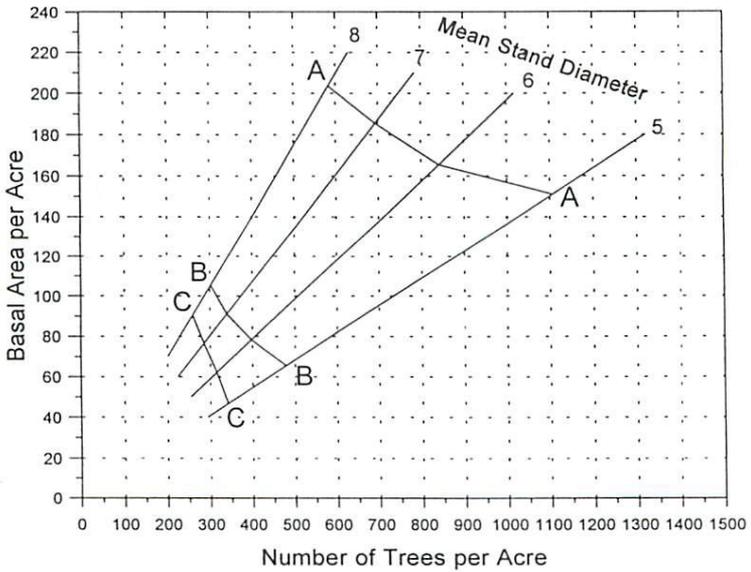
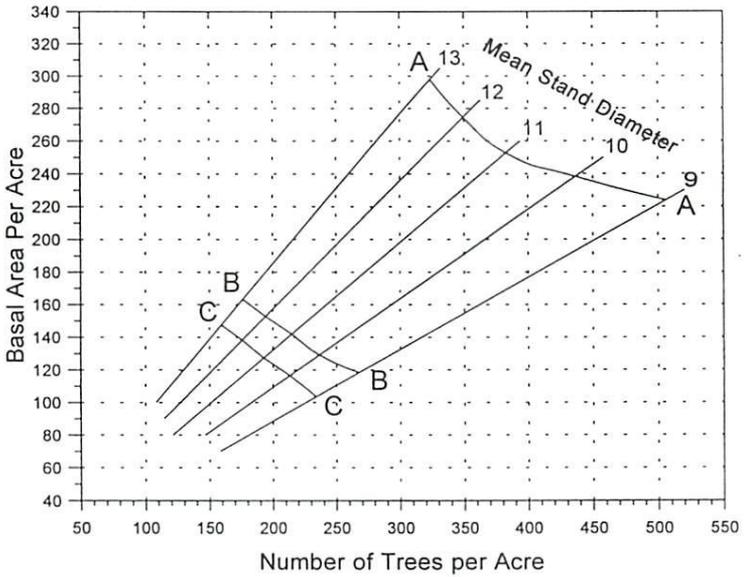


Appendix 5: Stocking Guides

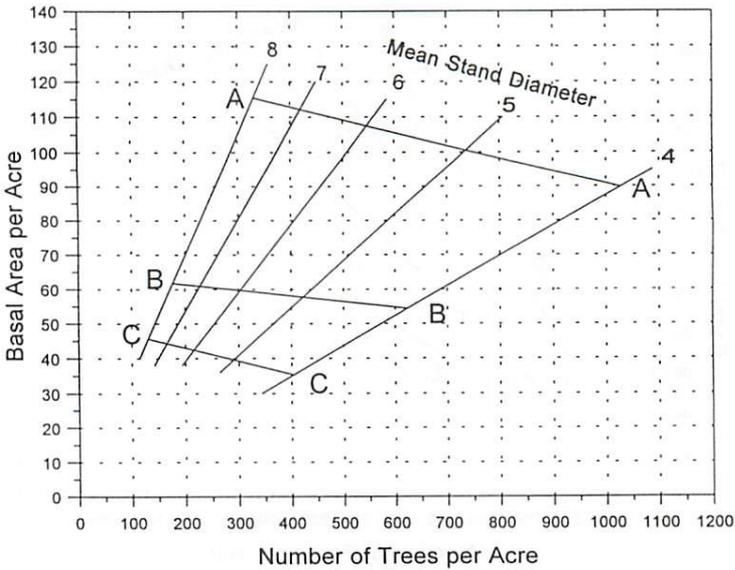
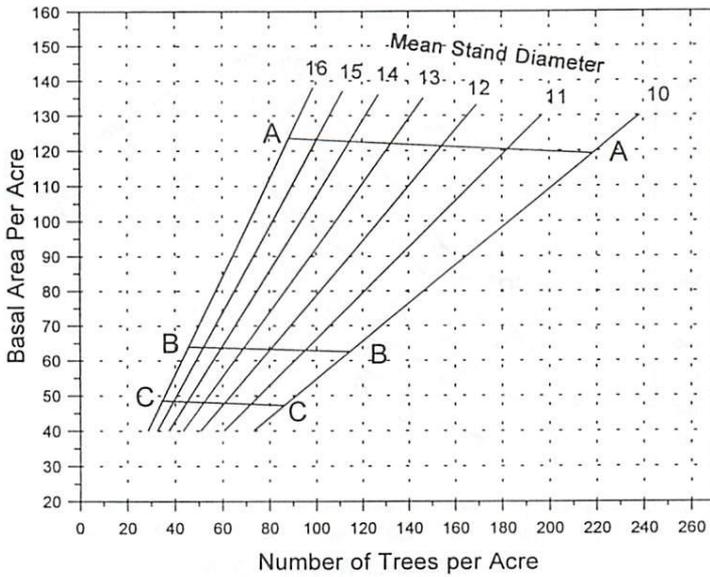
White Pine Stocking Guide



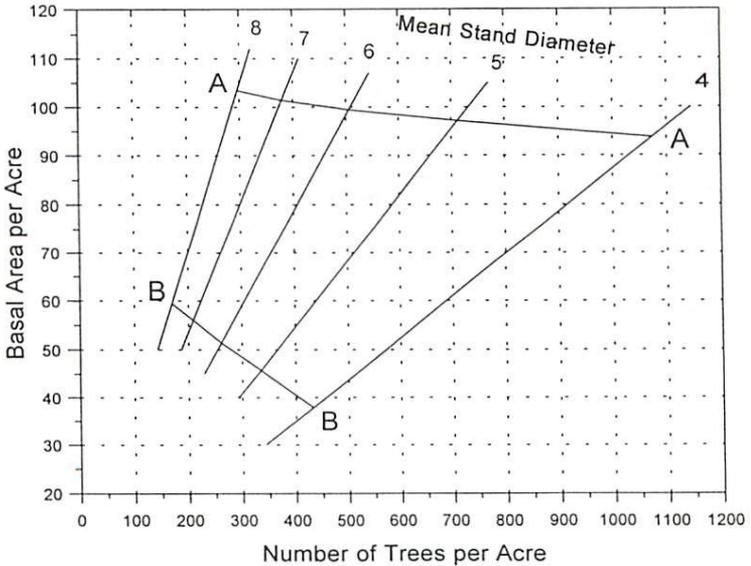
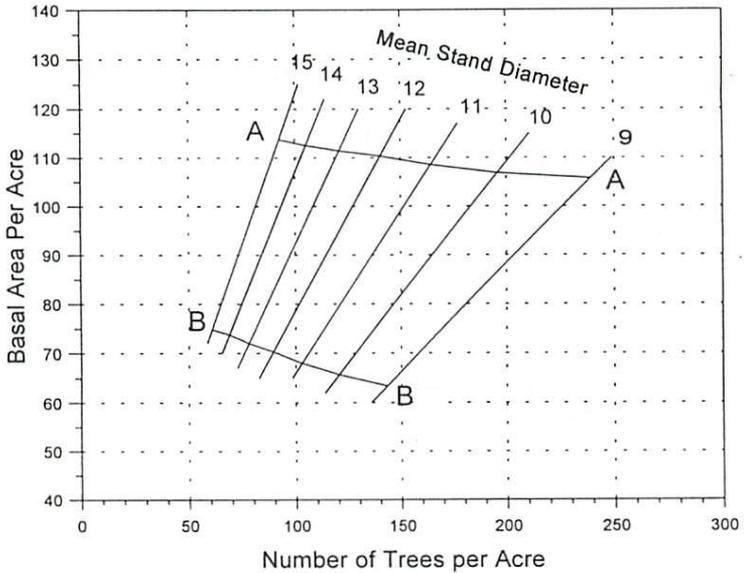
Spruce-Fir Stocking Guide



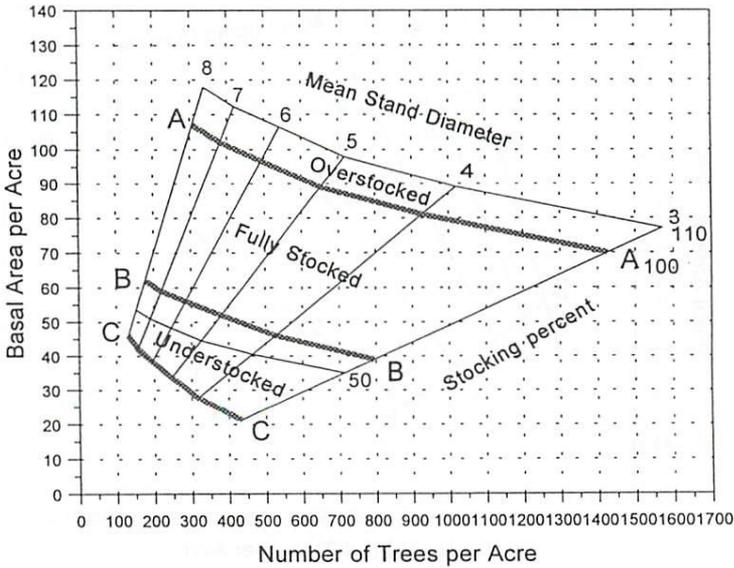
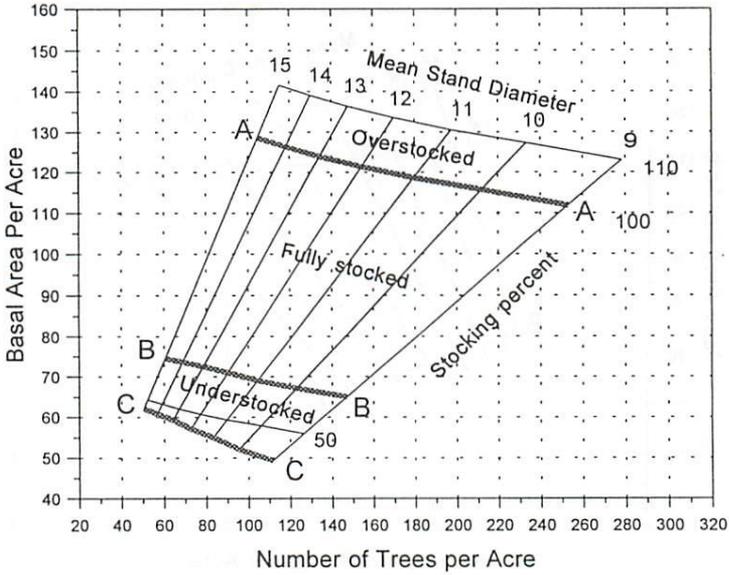
Northern Hardwoods Stocking Guide



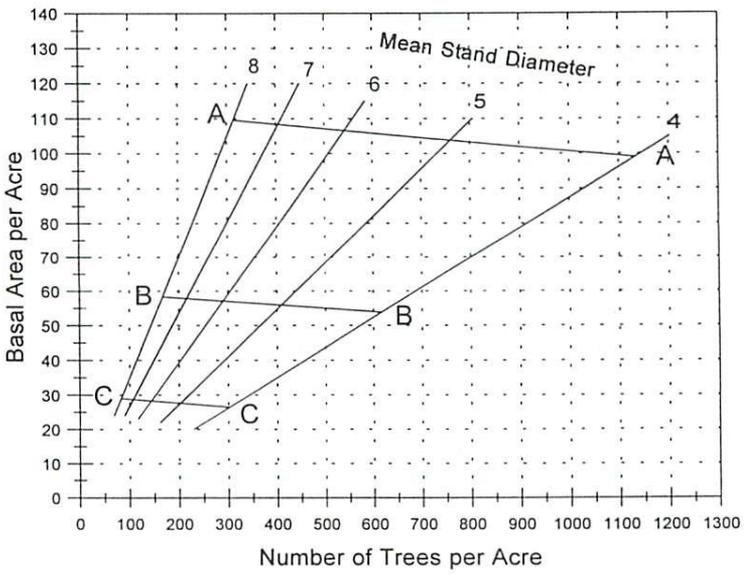
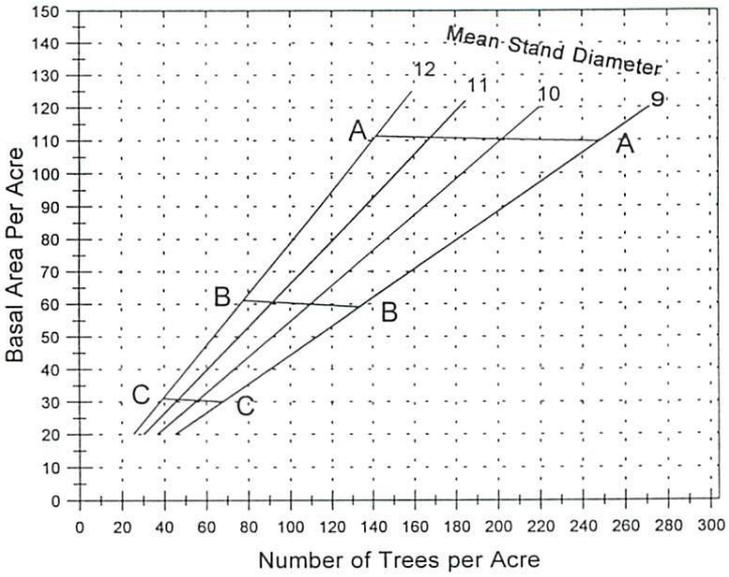
Red Oak Stocking Guide



Central Hardwoods Stocking Guide



Paper Birch Stocking Guide



Appendix 6: Methods of Scaling Deductions

METHODS OF DETERMINING SCALING DEDUCTION	
(Examples based on an 8-foot log with 20-inch scaling diameter)	
<p>If <u>section</u> of bole is affected, deduct percent of log length affected.</p> <p>Example: $\frac{2}{8} = 25$ percent cull</p>	
<p>If <u>sector</u> is affected, multiply percent of circle times percent of length.</p> <p>Example: $\frac{60^\circ}{360^\circ} \times \frac{3}{8} = 6\%$ cull</p>	
<p>For a <u>crook</u>, multiply proportion of diameter displaced times proportion of log length affected by crook.*</p> <p>Example: $\frac{10}{20} \times \frac{2}{8} = 12\%$ b.f. cull</p>	
<p>For a <u>sweep</u>, determine sweep departure and subtract 1" for 8' logs or 2" for 16' logs. Divide by log diameter.</p> <p>Example: $\frac{8-1}{20} = 35\%$ b.f. cull**</p>	
<p>For <u>interior cull</u>, square out interior cull as a percent of total volume of the section. For bd. ft. cull, add 1" to width and to thickness; for cu. ft. cull, use actual dimensions of rot. For bd. ft. cull divide width and thickness by the scaling diameter (ave. d.i.b., small end) minus 1; for cu. ft. cull, divide by scaling diameter. Multiply fractions by percent of log affected.</p> <p>Example: $\frac{8 \times 10}{(20-1)^2} \times \frac{2}{8} = 6\%$ cubic-foot cull</p>	

* No reduction of cubic-foot volume will be made.

** If a straight line between A and B falls outside the bark, the affected section is over 50% cull in board feet.

The above was taken directly from: *Field Instructions for the Fifth Inventories of New Hampshire and Vermont*, Version 1.2

Published by the Forest Inventory and Analysis Unit, Northeastern Forest Experiment Station, USFS, USDA.

Sources of information in this Appendix

Stocking Guides

Stocking guides were adapted by Joseph C. Mawson from the following sources:

A Stocking Guide for Eastern White Pine, USDA Res. Note NE-168.

A Silvicultural Guide for Spruce-Fir in the Northeast, USFS GTR-NE-6

Silv. Guide for Northern Hardwood Forest Types (revised), USFS RP-NE-603

A Management Guide for Oak in New England, Conn. Coop. Ext. Pub.#83-12

The Management of Young and Intermediate Stands of Upland Hardwoods, USDA Res. Pap.NE- 195

Silvicultural Guide for Paper Birch in the Northeast, USFS RP-NE-535

Site Index Curves

Site index curves were adapted by Joseph C. Mawson from the following sources:

Red pine plantations, hemlock, red spruce, white ash, sugar maple, paper birch, yellow birch and red maple from *Site Index Curves for Forest Tree Species in the Eastern United States*. USFS, GTR-NC-128.

Oaks in New England from: *A Management Guide for Oak in New England*, Conn. Coop. Ext. Pub. 83-12, Hibbs and Bentley.

White Pine from: *White pine Under Forest Management*, USDA Bull. 13, Frothingham.

Beech from: Unpublished USFS NE Exp. Sta. data.

Appendix 7: Indicator Plants List

**FIA Codes List (shrubs, vines)

Deciduous Shrubs:

Code	Common name	Genus	Species
315	Striped Maple	Acer	pennsylvanicum
319	Mountain Maple	Acer	spicatum
350	alder	Alnus	sp.
352	speckled alder	A.	rugosa
353	Hercules club	Aralia	spinosa
365	chokeberry sp.	Aronia	sp.
366	azalea	Azalea	sp.
368	barberry	Berberis	sp.
381	buttonbush	Cephalanthus	occidentalis
458	New Jersey tea	Cleanothus	americanus
465	sweet pepperbush	Clethra	alnifolia
475	fringetree	Chionanthus	virginicus
485	fern (all)		
492	alternate-leaved dogwood	Cornus	alternifolia
493	silky dogwood	C.	amomum (obliqua)
494	round-leaved dogwood	C.	rugosa(circinata)
496	gray-stemmed, or panicled dogwood	Cornus	racemosa(paniculata)
497	red-osier dogwood	C.	stolonifera
501	American hazelnut	Corylus	americana
502	beaked hazelnut	C.	cornuta (rostrata)
525	leatherwood	Dirca	palustris
535	autumn olive, or Russian olive	Elaeagnus	angustifolia
549	huckleberry	Gaylussacia	sp.
585	witch-hazel	Hamamelis	virginiana
592	large-leaf holly	Ilex	Montana (monticola)
593	winterberry holly	Ilex	verticillata
604	fetter-bush	Leucothoe	sp.
609	common spicebush	Lindera	benzoin
635	bush honeysuckle	Lonicera	sp.
637	male-berry, staggerbush	Lyonia	sp.
643	sweet gale	Myrica	gale
644	bayberry	Myrica	pensylvanica
685	mountain-holly	Nemopanthus	mucronatus
725	ninebark	Physocarpus	opulifolius
816	Scrub oak	Quercus	ajoensis
845	buckthorn	Rhamnus	sp.
856	azalea(deciduous)	Rhododendron	sp.
864	winged sumac	Rhus	copallina
865	smooth sumac	R.	glabra
866	staghorn sumac	R.	typhina
868	poison sumac	R.	vernix
870	currant, gooseberry	Ribes	sp.
905	rose	Rosa	sp.
915	briar, bramble, dewberry (inc. Blackberry, raspberry)	Rubus	sp.

925	American elderberry	Sambucus	canadensis
926	red-berried elderberry	S.	racemosa
923	crack willow	Salix	fragilis
929	other shrub willows	Salix	sp.
937	spirea	Spirea	sp.
982	American bladdernut	Staphylea	trifolia
983	Lowbush blueberry	Vaccinium	sp.
984	Highbush blueberry	Vaccinium	sp.
985	viburnum	Viburnum	sp.
986	maple-leaved viburnum	V.	acerifolium
987	hobblebush viburnum	V.	alnifolium
988	wild raisin, withe-rod	V.	cassinoides
989	arrowwood	V.	dentatum
990	nannyberry	V.	lentago
991	blackhaw	V.	prunifolium
992	highbush cranberry	V.	trilobum
993	grasses (all)		
994	common prickly-ash	Zanthoxylum	americanum
997	unknown/not listed		

Evergreen Shrubs:

Code	Common Name	Genus	Species
045	leatherleaf	Chamaedaphne	calyculata
061	common juniper	Juniperus	communis
232	Canada yew	Taxus	canadensis
357	bog rosemary	Andromeda	glaucophylla
605	Sheep laurel	Kalmia	angustifolia
606	Mountain laurel	K.	latifolia
607	Swamp laurel	K.	polifolia
608	Labrador tea	Ledum	groenlandicum
642	wax myrtle	Myrica	cerifera
855	rhododendron	Rhododendron	sp.
945	sweetleaf	Symplocos	tinctoria
998	unknown/not listed		

Dwarf Shrubs:

Code	Common Name	Genus	Species
363	bearberry	Arctostaphylos	uva-ursi
364	alpine bearberry	Arctous	alpinus
441	striped pipsissewa	Chimaphila	maculata
442	pipsissewa	Chimaphila	unbellata cisatlantica
498	bunchberry	Cornus	canadensis

547	creeping snowberry	Chiogenes	hispidula
548	teaberry	Gaultheria	procumbens
603	diapensia	Diapensia	lapponica
615	twinflor	Linnaea	borealis americana
618	alpine azalea	Loiseleuria	procumbens
675	partridgeberry	Mitchella	repens
677	three-toothed cinquefoil	Potentilla	tridentata
981	cranberry	Vaccinium	sp.
996	Unknown/not listed		

Vines:

Code	Common Name	Genus	Species
451	hog peanut	Amphicarpa	bracteata
454	ground-nut	Apois	americana
455	American bittersweet	Celastrus	scandens
477	clematis sp.	Clematis	sp.
636	vine honeysuckle	Lonicera	sp.
715	Virginia creeper	Parthenocissus	quinquefolia
867	poison ivy	Rhus	radicans
934	greenbrier	Smilax	sp.
993	grape	Vitis	sp.
995	Unknown/not listed		

Appendix 8: Invasive Species List

Species	NRCS Plants Code	Common Name	Life Form
<i>Microstegium vimineum</i>	MIVI	Japanese stiltgrass, Nepalese browntop	grass
<i>Phalaris arundinacea</i>	PHAR3	Reed canary grass	grass
<i>Phragmites australis</i>	PHAU7	Common reed, phragmites	grass
<i>Alliaria petiolata</i>	ALPE4	garlic mustard	herb
<i>Centaurea biebersteinii</i>	CEBI2	spotted knapweed	herb
<i>Cirsium arvense</i>	CIAR4	Canada thistle	herb
<i>Cirsium vulgare</i>	CIVU	bull thistle	herb
<i>Cynanchum louiseae</i>	CYLO11	Louise's or black swallow-wort	herb
<i>Cynanchum rossicum</i>	CYRO8	European swallow-wort	herb
<i>Euphorbia esula</i>	EUES	leafy spurge	herb
<i>Hesperis matronalis</i>	HEMA3	Dame's rocket	herb
<i>Lysimachia nummularia</i>	LYNU	creeping jenny	herb
<i>Lythrum salicaria</i>	LYSA2	purple loosestrife	herb
<i>Polygonum cuspidatum</i>	POCU6	Japanese knotweed	herb
<i>Polygonum x. bohemicum</i>	POBO10	(<i>P. cuspidatum</i> x. <i>P. sachalinense</i> hybrid	herb
<i>Polygonum sachalinense</i>	POSA4	giant knotweed	herb
<i>Berberis thunbergii</i>	BETH	Japanese barberry	shrub
<i>Berberis vulgaris</i>	BEVU	common barberry	shrub
<i>Elaeagnus umbellata</i>	ELUM	autumn olive	shrub
<i>Frangula alnus</i>	FRAL4	glossy buckthorn	shrub
<i>Ligustrum vulgare</i>	LIVU	European privet	shrub
<i>Lonicera maackii</i>	LOMA6	Amur honeysuckle	shrub
<i>Lonicera tatarica</i>	LOTA	Tatarian bush honeysuckle	shrub
<i>Lonicera x bella</i>	LOBE	Showy fly honeysuckle	shrub
<i>Lonicera morrowii</i>	LOMO2	Morrow's honeysuckle	shrub
<i>Rhamnus cathartica</i>	RHCA3	common buckthorn	shrub
<i>Rosa multiflora</i>	ROMU	multiflora rose	shrub
<i>Spiraea japonica</i>	SPJA	Japanese meadowsweet	shrub
<i>Viburnum opulus</i>	VIOP	European cranberrybush	shrub
<i>Acer platanoides</i>	ACPL	Norway maple	tree
<i>Ailanthus altissima</i>	AIAL	tree-of-heaven	tree
<i>Albizia julibrissin</i>	ALJU	silktree	tree
<i>Elaeagnus angustifolia</i>	ELAN	Russian olive	tree
<i>Melaleuca quinquenervia</i>	MEQU	punktree	tree
<i>Melia azedarach</i>	MEAZ	Chinaberry	tree
<i>Paulownia tomentosa</i>	PATO2	princesstree	tree
<i>Robinia pseudoacacia</i>	ROPS	black locust	tree
<i>Tamarix ramosissima</i>	TARA	saltcedar	tree
<i>Triadica sebifera</i>	TRSE6	tallow tree	tree
<i>Ulmus pumila</i>	ULPU	Siberian elm	Tree

Celastrus orbiculatus	CEOR7	oriental bittersweet	vine
Hedera helix	HEHE	English ivy	vine
Lonicera japonica	LOJA	Japanese honeysuckle	vine

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0001	Taconic Trail State Forest	Reserve
0002	Taconic Trail State Forest	Reserve
0003	Taconic Trail State Forest	Reserve
0004	Taconic Trail State Forest	Reserve
0005	Taconic Trail State Forest	Reserve
0006	Taconic Trail State Forest	Reserve
0007	Taconic Trail State Forest	Reserve
0008	Taconic Trail State Forest	Reserve
0009	Taconic Trail State Forest	Reserve
0010	Taconic Trail State Forest	Reserve
0011	Taconic Trail State Forest	Reserve
0012	Taconic Trail State Forest	Reserve
0013	Taconic Trail State Forest	Reserve
0021	Clarksburg State Forest	Reserve
0022	Clarksburg State Forest	Reserve
0023	Clarksburg State Forest	Reserve
0024	Clarksburg State Forest	Reserve
0025	Clarksburg State Forest	Reserve
0026	Clarksburg State Forest	Reserve
0027	Clarksburg State Forest	Reserve
0028	Clarksburg State Forest	Reserve
0029	Clarksburg State Forest	Reserve
0030	Clarksburg State Forest	Reserve
0031	Clarksburg State Forest	Reserve
0032	Clarksburg State Forest	Reserve
0033	Clarksburg State Forest	Reserve
0034	Clarksburg State Forest	Reserve
0035	Clarksburg State Forest	Reserve
0036	Clarksburg State Forest	Reserve
0037	Clarksburg State Forest	Reserve
0041	Clarksburg State Park	Parkland
0042	Clarksburg State Park	Parkland
0043	Clarksburg State Park	Parkland
0062	Florida State Forest	Woodland
0063	Florida State Forest	Woodland
0064	Florida State Forest	Woodland
0065	Florida State Forest	Woodland
0081	Monroe State Forest	Reserve
0082	Monroe State Forest	Reserve
0083	Monroe State Forest	Reserve
0084	Monroe State Forest	Reserve
0085	Monroe State Forest	Reserve
0086	Monroe State Forest	Reserve
0087	Monroe State Forest	Reserve
0088	Monroe State Forest	Reserve
0089	Monroe State Forest	Reserve
0101	Mohawk Trail State Forest	Reserve
0102	Mohawk Trail State Forest	Reserve
0103	Mohawk Trail State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0105	Mohawk Trail State Forest	Reserve
0106	Mohawk Trail State Forest	Reserve
0107	Mohawk Trail State Forest	Reserve
0108	Mohawk Trail State Forest	Reserve
0109	Mohawk Trail State Forest	Reserve
0110	Mohawk Trail State Forest	Reserve
0111	Mohawk Trail State Forest	Reserve
0112	Mohawk Trail State Forest	Reserve
0113	Mohawk Trail State Forest	Reserve
0114	Mohawk Trail State Forest	Reserve
0115	Mohawk Trail State Forest	Reserve
0116	Mohawk Trail State Forest	Reserve
0117	Mohawk Trail State Forest	Reserve
0118	Mohawk Trail State Forest	Reserve
0119	Mohawk Trail State Forest	Reserve
0120	Mohawk Trail State Forest	Reserve
0123	Mohawk Trail State Forest	Reserve
0124	Mohawk Trail State Forest	Reserve
0125	Mohawk Trail State Forest	Reserve
0126	Mohawk Trail State Forest	Reserve
0127	Mohawk Trail State Forest	Reserve
0128	Mohawk Trail State Forest	Reserve
0180	Savoy Mountain State Forest	Woodland
0181	Florida State Forest	Woodland
0182	Florida State Forest	Woodland
0183	Florida State Forest	Woodland
0184	Savoy Mountain State Forest	Woodland
0185	Savoy Mountain State Forest	Woodland
0186	Savoy Mountain State Forest	Woodland
0187	Savoy Mountain State Forest	Woodland
0188	Savoy Mountain State Forest	Parkland
0189	Florida State Forest	Reserve
0190	Florida State Forest	Woodland
0191	Florida State Forest	Reserve
0192	Florida State Forest	Woodland
0193	Savoy Mountain State Forest	Woodland
0194	Savoy Mountain State Forest	Woodland
0195	Savoy Mountain State Forest	Woodland
0196	Savoy Mountain State Forest	Woodland
0197	Savoy Mountain State Forest	Woodland
0198	Savoy Mountain State Forest	Woodland
0199	Savoy Mountain State Forest	Parkland
0200	Savoy Mountain State Forest	Woodland
0201	Savoy Mountain State Forest	Woodland
0202	Savoy Mountain State Forest	Woodland
0203	Mohawk Trail State Forest	Reserve
0204	Mohawk Trail State Forest	Reserve
0205	Savoy Mountain State Forest	Woodland
0206	Savoy Mountain State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0207	Savoy Mountain State Forest	Woodland
0208	Savoy Mountain State Forest	Woodland
0209	Savoy Mountain State Forest	Woodland
0210	Savoy Mountain State Forest	Woodland
0211	Savoy Mountain State Forest	Woodland
0212	Savoy Mountain State Forest	Woodland
0213	Savoy Mountain State Forest	Woodland
0214	Savoy Mountain State Forest	Woodland
0215	Savoy Mountain State Forest	Woodland
0216	Savoy Mountain State Forest	Woodland
0217	Mohawk Trail State Forest	Reserve
0218	Savoy Mountain State Forest	Reserve
0219	Savoy Mountain State Forest	Woodland
0220	Savoy Mountain State Forest	Woodland
0221	Savoy Mountain State Forest	Woodland
0222	Savoy Mountain State Forest	Woodland
0223	Savoy Mountain State Forest	Woodland
0224	Savoy Mountain State Forest	Woodland
0225	Savoy Mountain State Forest	Woodland
0226	Savoy Mountain State Forest	Woodland
0227	Savoy Mountain State Forest	Woodland
0228	Savoy Mountain State Forest	Woodland
0229	Savoy Mountain State Forest	Woodland
0230	Savoy Mountain State Forest	Woodland
0231	Savoy Mountain State Forest	Woodland
0232	Savoy Mountain State Forest	Woodland
0233	Savoy Mountain State Forest	Woodland
0234	Savoy Mountain State Forest	Woodland
0235	Savoy Mountain State Forest	Woodland
0236	Savoy Mountain State Forest	Woodland
0237	Savoy Mountain State Forest	Woodland
0238	Savoy Mountain State Forest	Woodland
0239	Savoy Mountain State Forest	Woodland
0240	Savoy Mountain State Forest	Woodland
0241	Savoy Mountain State Forest	Woodland
0242	Savoy Mountain State Forest	Woodland
0243	Savoy Mountain State Forest	Woodland
0244	Savoy Mountain State Forest	Woodland
0245	Savoy Mountain State Forest	Woodland
0246	Savoy Mountain State Forest	Woodland
0247	Savoy Mountain State Forest	Woodland
0248	Savoy Mountain State Forest	Woodland
0249	Savoy Mountain State Forest	Woodland
0250	Savoy Mountain State Forest	Woodland
0251	Savoy Mountain State Forest	Woodland
0252	Savoy Mountain State Forest	Woodland
0253	Savoy Mountain State Forest	Woodland
0254	Savoy Mountain State Forest	Woodland
0261	Deer Hill State Reservation	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0262	Deer Hill State Reservation	Woodland
0263	Bryant Mountain State Forest	Woodland
0264	Bryant Mountain State Forest	Parkland
0265	Bryant Mountain State Forest	Woodland
0266	Bryant Mountain State Forest	Woodland
0271	Windsor State Forest	Woodland
0272	Windsor State Forest	Woodland
0273	Windsor State Forest	Woodland
0274	Windsor State Forest	Woodland
0275	Windsor State Forest	Woodland
0276	Windsor State Forest	Woodland
0277	Windsor State Forest	Woodland
0278	Windsor State Forest	Woodland
0279	Windsor State Forest	Woodland
0281	Windsor State Forest	Woodland
0282	Windsor State Forest	Woodland
0291	Pittsfield State Forest	Woodland
0292	Pittsfield State Forest	Woodland
0293	Pittsfield State Forest	Woodland
0294	Pittsfield State Forest	Woodland
0295	Pittsfield State Forest	Woodland
0296	Pittsfield State Forest	Parkland
0297	Pittsfield State Forest	Woodland
0298	Pittsfield State Forest	Woodland
0299	Pittsfield State Forest	Parkland
0300	Pittsfield State Forest	Parkland
0301	Pittsfield	Woodland
0302	Pittsfield State Forest	Parkland
0303	Pittsfield State Forest	Parkland
0304	Pittsfield State Forest	Parkland
0305	Pittsfield State Forest	Parkland
0306	Pittsfield State Forest	Parkland
0307	Pittsfield State Forest	Woodland
0308	Pittsfield State Forest	Woodland
0309	Pittsfield State Forest	Woodland
0310	Pittsfield State Forest	Woodland
0311	Pittsfield State Forest	Woodland
0312	Pittsfield State Forest	Woodland
0313	Pittsfield State Forest	Woodland
0314	Pittsfield State Forest	Woodland
0315	Pittsfield State Forest	Woodland
0316	Pittsfield State Forest	Woodland
0317	Pittsfield State Forest	Woodland
0318	Pittsfield State Forest	Woodland
0319	Pittsfield State Forest	Woodland
0320	Pittsfield State Forest	Woodland
0321	Pittsfield State Forest	Woodland
0322	Pittsfield State Forest	Woodland
0323	Pittsfield State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0324	Pittsfield State Forest	Parkland
0325	Pittsfield State Forest	Woodland
0326	Pittsfield State Forest	Woodland
0327	Pittsfield State Forest	Woodland
0328	Pittsfield State Forest	Woodland
0329	Pittsfield State Forest	Woodland
0330	Pittsfield State Forest	Woodland
0331	Pittsfield State Forest	Woodland
0332	Pittsfield State Forest	Woodland
0333	Pittsfield State Forest	Woodland
0334	Pittsfield State Forest	Woodland
0335	Pittsfield State Forest	Woodland
0336	Pittsfield State Forest	Woodland
0338	Pittsfield State Forest	Woodland
0339	Pittsfield State Forest	Woodland
0341	Balance Rock State Park	Woodland
0342	Pittsfield State Forest	Woodland
0343	Bates Memorial State Park	Woodland
0344	Wahconah Falls State Park	Parkland
0345	Bates Memorial State Park	Woodland
0346	Bates Memorial State Park	Woodland
0351	Peru State Forest	Woodland
0352	Peru State Forest	Woodland
0354	Peru State Forest	Woodland
0355	Peru State Forest	Woodland
0356	Peru State Forest	Woodland
0357	Peru State Forest	Woodland
0358	Peru State Forest	Woodland
0359	Peru State Forest	Woodland
0360	Peru State Forest	Woodland
0361	Peru State Forest	Woodland
0362	Peru State Forest	Woodland
0363	Peru State Forest	Woodland
0364	Peru State Forest	Woodland
0365	Peru State Forest	Woodland
0366	Peru State Forest	Woodland
0367	Peru State Forest	Woodland
0368	Middlefield State Forest	Reserve
0376	Worthington State Forest	Woodland
0377	Worthington State Forest	Woodland
0381	October Mountain State Forest	Reserve
0382	October Mountain State Forest	Woodland
0383	October Mountain State Forest	Woodland
0384	October Mountain State Forest	Woodland
0385	October Mountain State Forest	Reserve
0386	October Mountain State Forest	Reserve
0387	October Mountain State Forest	Reserve
0388	October Mountain State Forest	Reserve
0389	October Mountain State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0390	October Mountain State Forest	Reserve
0391	October Mountain State Forest	Reserve
0392	October Mountain State Forest	Woodland
0393	October Mountain State Forest	Woodland
0394	October Mountain State Forest	Woodland
0395	October Mountain State Forest	Woodland
0396	October Mountain State Forest	Woodland
0397	October Mountain State Forest	Woodland
0398	October Mountain State Forest	Woodland
0399	October Mountain State Forest	Reserve
0400	October Mountain State Forest	Reserve
0401	October Mountain State Forest	Reserve
0402	October Mountain State Forest	Reserve
0403	October Mountain State Forest	Reserve
0404	October Mountain State Forest	Reserve
0405	October Mountain State Forest	Reserve
0406	October Mountain State Forest	Reserve
0407	October Mountain State Forest	Reserve
0408	October Mountain State Forest	Woodland
0409	October Mountain State Forest	Woodland
0410	October Mountain State Forest	Woodland
0411	October Mountain State Forest	Woodland
0412	October Mountain State Forest	Woodland
0413	October Mountain State Forest	Woodland
0414	October Mountain State Forest	Woodland
0415	October Mountain State Forest	Woodland
0416	October Mountain State Forest	Woodland
0417	October Mountain State Forest	Woodland
0418	October Mountain State Forest	Woodland
0419	October Mountain State Forest	Reserve
0420	October Mountain State Forest	Reserve
0421	October Mountain State Forest	Reserve
0422	October Mountain State Forest	Reserve
0423	October Mountain State Forest	Reserve
0424	October Mountain State Forest	Reserve
0425	October Mountain State Forest	Woodland
0426	October Mountain State Forest	Parkland
0427	October Mountain State Forest	Woodland
0428	October Mountain State Forest	Woodland
0429	October Mountain State Forest	Woodland
0430	October Mountain State Forest	Woodland
0431	October Mountain State Forest	Woodland
0432	October Mountain State Forest	Woodland
0433	October Mountain State Forest	Woodland
0434	October Mountain State Forest	Woodland
0435	October Mountain State Forest	Woodland
0436	October Mountain State Forest	Woodland
0437	October Mountain State Forest	Woodland
0438	October Mountain State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0439	October Mountain State Forest	Woodland
0440	October Mountain State Forest	Woodland
0441	October Mountain State Forest	Reserve
0442	October Mountain State Forest	Reserve
0443	October Mountain State Forest	Parkland
0444	October Mountain State Forest	Reserve
0445	October Mountain State Forest	Woodland
0446	October Mountain State Forest	Woodland
0447	October Mountain State Forest	Woodland
0448	October Mountain State Forest	Woodland
0449	October Mountain State Forest	Woodland
0450	October Mountain State Forest	Woodland
0451	October Mountain State Forest	Woodland
0452	October Mountain State Forest	Woodland
0453	October Mountain State Forest	Woodland
0454	October Mountain State Forest	Woodland
0455	October Mountain State Forest	Woodland
0456	October Mountain State Forest	Woodland
0457	October Mountain State Forest	Woodland
0458	October Mountain State Forest	Woodland
0459	October Mountain State Forest	Woodland
0460	October Mountain State Forest	Woodland
0461	October Mountain State Forest	Woodland
0462	October Mountain State Forest	Woodland
0463	October Mountain State Forest	Woodland
0464	October Mountain State Forest	Woodland
0465	October Mountain State Forest	Woodland
0467	October Mountain State Forest	Woodland
0468	October Mountain State Forest	Woodland
0469	October Mountain State Forest	Woodland
0470	October Mountain State Forest	Woodland
0471	October Mountain State Forest	Woodland
0472	October Mountain State Forest	Woodland
0473	October Mountain State Forest	Woodland
0474	October Mountain State Forest	Woodland
0476	October Mountain State Forest	Woodland
0477	October Mountain State Forest	Woodland
0478	October Mountain State Forest	Woodland
0479	October Mountain State Forest	Woodland
0480	October Mountain State Forest	Woodland
0481	October Mountain State Forest	Woodland
0482	October Mountain State Forest	Woodland
0483	October Mountain State Forest	Woodland
0484	October Mountain State Forest	Reserve
0485	October Mountain State Forest	Woodland
0501	Becket State Forest	Woodland
0504	Becket State Forest	Woodland
0505	Becket State Forest	Woodland
0506	Becket State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0507	Otis State Forest	Woodland
0508	Otis State Forest	Woodland
0509	Otis State Forest	Woodland
0510	Otis State Forest	Woodland
0511	Otis State Forest	Woodland
0512	Otis State Forest	Woodland
0513	Otis State Forest	Woodland
0514	Otis State Forest	Woodland
0515	Otis State Forest	Woodland
0516	Beartown State Forest	Reserve
0519	Otis State Forest	Reserve
0520	Otis State Forest	Woodland
0521	Otis State Forest	Reserve
0522	Otis State Forest	Reserve
0523	Otis State Forest	Reserve
0524	Otis State Forest	Reserve
0525	Otis State Forest	Reserve
0526	Otis State Forest	Reserve
0527	Otis State Forest	Reserve
0529	Otis State Forest	Reserve
0531	Otis State Forest	Woodland
0532	Otis State Forest	Woodland
0533	Otis State Forest	Woodland
0534	Otis State Forest	Woodland
0551	Beartown State Forest	Reserve
0552	Beartown State Forest	Reserve
0553	Beartown State Forest	Reserve
0554	Beartown State Forest	Reserve
0555	Beartown State Forest	Reserve
0556	Beartown State Forest	Reserve
0557	Beartown State Forest	Reserve
0558	Beartown State Forest	Reserve
0559	Beartown State Forest	Reserve
0560	Beartown State Forest	Reserve
0561	Beartown State Forest	Reserve
0562	Beartown State Forest	Reserve
0563	Beartown State Forest	Reserve
0564	Beartown State Forest	Reserve
0565	Beartown State Forest	Reserve
0566	Beartown State Forest	Reserve
0567	Beartown State Forest	Reserve
0568	Beartown State Forest	Reserve
0569	Beartown State Forest	Reserve
0570	Beartown State Forest	Reserve
0571	Beartown State Forest	Reserve
0572	Beartown State Forest	Reserve
0573	Beartown State Forest	Reserve
0574	Beartown State Forest	Reserve
0575	Beartown State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0576	Beartown State Forest	Reserve
0577	Beartown State Forest	Reserve
0578	Beartown State Forest	Reserve
0579	Beartown State Forest	Reserve
0580	Beartown State Forest	Reserve
0581	Beartown State Forest	Reserve
0582	Beartown State Forest	Reserve
0583	Beartown State Forest	Reserve
0584	Beartown State Forest	Reserve
0585	Beartown State Forest	Reserve
0586	Beartown State Forest	Reserve
0587	Beartown State Forest	Reserve
0588	Beartown State Forest	Reserve
0589	Beartown State Forest	Reserve
0590	Beartown State Forest	Reserve
0591	Beartown State Forest	Reserve
0592	Beartown State Forest	Reserve
0593	Beartown State Forest	Reserve
0594	Beartown State Forest	Reserve
0595	Beartown State Forest	Reserve
0596	Beartown State Forest	Reserve
0598	Beartown State Forest	Reserve
0599	Beartown State Forest	Reserve
0600	Beartown State Forest	Reserve
0601	Beartown State Forest	Reserve
0602	Fountain Pond Park	Woodland
0603	Fountain Pond Park	Woodland
0605	Fountain Pond Park	Woodland
0606	Beartown State Forest	Reserve
0607	Beartown State Forest	Reserve
0608	Beartown State Forest	Reserve
0609	Beartown State Forest	Reserve
0610	Beartown State Forest	Reserve
0621	Blackberry River Flood Control Site	Woodland
0631	Arthur Wharton Swann State Forest	Reserve
0632	Arthur Wharton Swann State Forest	Reserve
0633	Arthur Wharton Swann State Forest	Reserve
0634	Arthur Wharton Swann State Forest	Reserve
0635	Arthur Wharton Swann State Forest	Reserve
0636	Arthur Wharton Swann State Forest	Reserve
0637	Beartown State Forest	Parkland
0638	Beartown State Forest	Reserve
0650	Bash Bish Falls State Park	Parkland
0651	Bash Bish Falls State Park	Parkland
0652	Bash Bish Falls State Park	Parkland
0653	Mount Washington State Forest	Woodland
0654	Mount Washington State Forest	Woodland
0655	Mount Washington State Forest	Woodland
0656	Mount Washington State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0657	Mount Washington State Forest	Woodland
0661	Mount Washington State Forest	Reserve
0662	Mount Washington State Forest	Reserve
0663	Mount Washington State Forest	Reserve
0664	Mount Washington State Forest	Reserve
0665	Mount Washington State Forest	Reserve
0666	Mount Washington State Forest	Reserve
0667	Mount Washington State Forest	Reserve
0668	Mount Washington State Forest	Reserve
0669	Mount Washington State Forest	Reserve
0670	Mount Washington State Forest	Reserve
0671	Mount Washington State Forest	Reserve
0672	Mount Washington State Forest	Reserve
0673	Mount Washington State Forest	Reserve
0674	Mount Washington State Forest	Reserve
0675	Mount Washington State Forest	Reserve
0676	Mount Washington State Forest	Reserve
0677	Mount Washington State Forest	Reserve
0678	Mount Washington State Forest	Reserve
0679	Mount Washington State Forest	Reserve
0681	East Mountain State Forest	Reserve
0682	East Mountain State Forest	Parkland
0683	East Mountain State Forest	Parkland
0684	East Mountain State Forest	Reserve
0685	East Mountain State Forest	Reserve
0687	East Mountain State Forest	Reserve
0688	East Mountain State Forest	Reserve
0689	East Mountain State Forest	Reserve
0692	East Mountain State Forest	Reserve
0693	East Mountain State Forest	Reserve
0694	East Mountain State Forest	Reserve
0696	East Mountain State Forest	Parkland
0701	Sandisfield State Forest	Woodland
0703	Sandisfield State Forest	Woodland
0704	Sandisfield State Forest	Woodland
0705	Sandisfield State Forest	Woodland
0706	Sandisfield State Forest	Woodland
0707	Sandisfield State Forest	Woodland
0708	Sandisfield State Forest	Woodland
0709	Sandisfield State Forest	Woodland
0710	Sandisfield State Forest	Woodland
0711	Sandisfield State Forest	Woodland
0712	Sandisfield State Forest	Woodland
0713	Sandisfield State Forest	Woodland
0714	Sandisfield State Forest	Woodland
0716	Sandisfield State Forest	Woodland
0718	Sandisfield State Forest	Woodland
0719	Sandisfield State Forest	Woodland
0720	Sandisfield State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0721	Sandisfield State Forest	Woodland
0722	Sandisfield State Forest	Woodland
0723	Sandisfield State Forest	Woodland
0724	Sandisfield State Forest	Woodland
0725	Cookson State Forest	Reserve
0726	Cookson State Forest	Reserve
0727	Cookson State Forest	Reserve
0728	Cookson State Forest	Reserve
0729	Cookson State Forest	Reserve
0730	Cookson State Forest	Reserve
0731	Cookson State Forest	Reserve
0732	Cookson State Forest	Reserve
0733	Cookson State Forest	Reserve
0734	Cookson State Forest	Reserve
0735	Cookson State Forest	Reserve
0736	Cookson State Forest	Reserve
0737	Cookson State Forest	Reserve
0738	Cookson State Forest	Reserve
0739	Cookson State Forest	Reserve
0740	Cookson State Forest	Reserve
0741	Cookson State Forest	Reserve
0742	Cookson State Forest	Reserve
0743	Sandisfield State Forest	Woodland
0744	Sandisfield State Forest	Woodland
0747	Sandisfield State Forest	Woodland
0750	West Lake & Abbey Pond FC Site	Woodland
0751	West Lake & Abbey Pond FC Site	Woodland
0752	West Lake & Abbey Pond FC Site	Woodland
0753	West Lake & Abbey Pond FC Site	Woodland
0754	West Lake & Abbey Pond FC Site	Woodland
0755	West Lake & Abbey Pond FC Site	Woodland
0756	West Lake & Abbey Pond FC Site	Woodland
0757	West Lake & Abbey Pond FC Site	Woodland
0758	Sandisfield State Forest	Woodland
0771	Ashmere Lake State Park	Parkland
0792	Silver Brook North Flood Control Site	Woodland
0901	Monroe State Forest	Reserve
0902	Monroe State Forest	Reserve
0903	Monroe State Forest	Reserve
0904	Monroe State Forest	Reserve
0905	Monroe State Forest	Reserve
0906	Monroe State Forest	Reserve
0907	Monroe State Forest	Reserve
0908	Monroe State Forest	Reserve
0909	Monroe State Forest	Reserve
0910	Monroe State Forest	Reserve
0911	Monroe State Forest	Reserve
0912	Monroe State Forest	Reserve
0913	Monroe State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
0914	Monroe State Forest	Reserve
0915	Monroe State Forest	Reserve
0916	Monroe State Forest	Reserve
0917	Monroe State Forest	Reserve
0918	Rowe State Forest	Woodland
0941	Mohawk Trail State Forest	Reserve
0942	Mohawk Trail State Forest	Reserve
0943	Mohawk Trail State Forest	Reserve
0944	Mohawk Trail State Forest	Parkland
0945	Mohawk Trail State Forest	Reserve
0946	Mohawk Trail State Forest	Parkland
0947	Mohawk Trail State Forest	Reserve
0948	Mohawk Trail State Forest	Reserve
0949	Mohawk Trail State Forest	Reserve
0950	Mohawk Trail State Forest	Reserve
0951	Mohawk Trail State Forest	Reserve
0952	Mohawk Trail State Forest	Reserve
0953	Mohawk Trail State Forest	Reserve
0954	Mohawk Trail State Forest	Reserve
0955	Mohawk Trail State Forest	Reserve
0956	Mohawk Trail State Forest	Reserve
0957	Mohawk Trail State Forest	Reserve
0958	Mohawk Trail State Forest	Reserve
0959	Mohawk Trail State Forest	Reserve
0960	Mohawk Trail State Forest	Reserve
0961	Mohawk Trail State Forest	Reserve
0962	Mohawk Trail State Forest	Reserve
0991	H.O. Cook State Forest	Woodland
0992	H.O. Cook State Forest	Woodland
0993	H.O. Cook State Forest	Woodland
0994	H.O. Cook State Forest	Woodland
0995	H.O. Cook State Forest	Woodland
0996	H.O. Cook State Forest	Woodland
0997	H.O. Cook State Forest	Woodland
0998	H.O. Cook State Forest	Woodland
0999	H.O. Cook State Forest	Woodland
1000	H.O. Cook State Forest	Woodland
1011	Dubuque Memorial State Forest	Woodland
1012	Dubuque Memorial State Forest	Woodland
1013	Dubuque Memorial State Forest	Woodland
1014	Dubuque Memorial State Forest	Woodland
1015	Dubuque Memorial State Forest	Woodland
1016	Dubuque Memorial State Forest	Woodland
1017	Dubuque Memorial State Forest	Woodland
1018	Dubuque Memorial State Forest	Woodland
1019	Dubuque Memorial State Forest	Woodland
1020	Dubuque Memorial State Forest	Woodland
1021	Dubuque Memorial State Forest	Woodland
1022	Dubuque Memorial State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1023	Dubuque Memorial State Forest	Woodland
1024	Dubuque Memorial State Forest	Woodland
1025	Dubuque Memorial State Forest	Woodland
1026	Dubuque Memorial State Forest	Woodland
1027	Dubuque Memorial State Forest	Woodland
1028	Dubuque Memorial State Forest	Woodland
1029	Dubuque Memorial State Forest	Woodland
1030	Dubuque Memorial State Forest	Woodland
1031	Dubuque Memorial State Forest	Woodland
1032	Dubuque Memorial State Forest	Woodland
1033	Dubuque Memorial State Forest	Woodland
1034	Dubuque Memorial State Forest	Woodland
1035	Dubuque Memorial State Forest	Woodland
1036	Dubuque Memorial State Forest	Woodland
1037	Dubuque Memorial State Forest	Woodland
1038	Dubuque Memorial State Forest	Woodland
1039	Dubuque Memorial State Forest	Woodland
1040	Dubuque Memorial State Forest	Woodland
1043	Dubuque Memorial State Forest	Woodland
1044	Dubuque Memorial State Forest	Woodland
1045	Dubuque Memorial State Forest	Woodland
1046	Dubuque Memorial State Forest	Woodland
1057	Dubuque Memorial State Forest	Woodland
1058	Dubuque Memorial State Forest	Woodland
1059	Dubuque Memorial State Forest	Woodland
1060	Dubuque Memorial State Forest	Woodland
1061	Buckland State Forest	Woodland
1062	Northfield State Forest	Woodland
1063	Northfield State Forest	Woodland
1064	Northfield State Forest	Woodland
1081	Shelburne State Forest	Parkland
1082	Conway State Forest	Woodland
1083	Conway State Forest	Woodland
1084	Conway State Forest	Woodland
1085	Conway State Forest	Woodland
1086	Conway State Forest	Woodland
1087	Conway State Forest	Woodland
1088	Conway State Forest	Woodland
1089	Conway State Forest	Woodland
1090	South River State Forest	Woodland
1091	South River State Forest	Parkland
1092	Conway State Forest	Woodland
1098	South River State Forest	Woodland
1099	South River State Forest	Woodland
1101	Northfield State Forest	Woodland
1102	Northfield State Forest	Woodland
1103	Northfield State Forest	Woodland
1104	Erving State Forest	Woodland
1105	Warwick State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1106	Erving State Forest	Woodland
1107	Erving State Forest	Woodland
1108	Erving State Forest	Parkland
1110	Warwick State Forest	Reserve
1111	Warwick State Forest	Reserve
1112	Erving State Forest	Woodland
1113	Erving State Forest	Woodland
1114	Erving State Forest	Woodland
1115	Erving State Forest	Woodland
1116	Erving State Forest	Woodland
1117	Erving State Forest	Woodland
1118	Orange State Forest	Reserve
1119	Orange State Forest	Reserve
1120	Erving State Forest	Woodland
1121	Erving State Forest	Woodland
1124	Erving State Forest	Woodland
1125	Erving State Forest	Woodland
1130	Warwick State Forest	Reserve
1131	Warwick State Forest	Reserve
1132	Warwick State Forest	Reserve
1133	Warwick State Forest	Reserve
1134	Warwick State Forest	Reserve
1139	Warwick State Forest	Woodland
1142	Warwick State Forest	Woodland
1145	Warwick State Forest	Woodland
1151	Warwick State Forest	Woodland
1152	Warwick State Forest	Woodland
1153	Warwick State Forest	Woodland
1154	Warwick State Forest	Woodland
1155	Warwick State Forest	Woodland
1156	Warwick State Forest	Woodland
1157	Warwick State Forest	Woodland
1158	Warwick State Forest	Reserve
1159	Northfield State Forest	Woodland
1160	Northfield State Forest	Woodland
1161	Warwick State Forest	Reserve
1162	Warwick State Forest	Reserve
1163	Warwick State Forest	Reserve
1164	Northfield State Forest	Woodland
1165	Northfield State Forest	Woodland
1166	Northfield State Forest	Woodland
1169	Warwick State Forest	Reserve
1170	Warwick State Forest	Reserve
1171	Warwick State Forest	Reserve
1172	Northfield State Forest	Woodland
1173	Warwick State Forest	Reserve
1174	Warwick State Forest	Reserve
1175	Warwick State Forest	Reserve
1176	Warwick State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1177	Warwick State Forest	Woodland
1179	Warwick State Forest	Woodland
1180	Warwick State Forest	Woodland
1181	Warwick State Forest	Woodland
1182	Warwick State Forest	Woodland
1183	Warwick State Forest	Woodland
1184	Warwick State Forest	Woodland
1185	Warwick State Forest	Woodland
1186	Warwick State Forest	Woodland
1187	Warwick State Forest	Woodland
1189	Warwick State Forest	Woodland
1190	Warwick State Forest	Woodland
1191	Warwick State Forest	Woodland
1192	Warwick State Forest	Woodland
1193	Warwick State Forest	Woodland
1194	Warwick State Forest	Woodland
1195	Warwick State Forest	Woodland
1196	Warwick State Forest	Woodland
1197	Warwick State Forest	Woodland
1198	Warwick State Forest	Woodland
1199	Warwick State Forest	Woodland
1201	Mount Grace State Forest	Woodland
1202	Mount Grace State Forest	Woodland
1203	Mount Grace State Forest	Woodland
1204	Mount Grace State Forest	Woodland
1205	Mount Grace State Forest	Woodland
1206	Mount Grace State Forest	Woodland
1207	Mount Grace State Forest	Woodland
1208	Mount Grace State Forest	Parkland
1209	Mount Grace State Forest	Woodland
1210	Mount Grace State Forest	Woodland
1211	Mount Grace State Forest	Woodland
1212	Warwick State Forest	Woodland
1214	Warwick State Forest	Woodland
1217	Warwick State Forest	Woodland
1220	Warwick State Forest	Woodland
1221	Wendell State Forest	Reserve
1222	Wendell State Forest	Reserve
1223	Wendell State Forest	Reserve
1224	Wendell State Forest	Reserve
1225	Orange State Forest	Reserve
1226	Wendell State Forest	Reserve
1227	Wendell State Forest	Reserve
1228	Wendell State Forest	Reserve
1229	Wendell State Forest	Reserve
1230	Wendell State Forest	Reserve
1231	Wendell State Forest	Reserve
1232	Wendell State Forest	Woodland
1233	Wendell State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1234	Wendell State Forest	Reserve
1235	Wendell State Forest	Reserve
1236	Wendell State Forest	Reserve
1237	Wendell State Forest	Reserve
1238	Wendell State Forest	Reserve
1240	Wendell State Forest	Woodland
1242	Montague State Forest	Woodland
1243	Montague State Forest	Woodland
1244	Montague State Forest	Woodland
1245	Montague State Forest	Woodland
1246	Wendell State Forest	Woodland
1247	Wendell State Forest	Woodland
1248	Wendell State Forest	Woodland
1249	Wendell State Forest	Woodland
1250	Wendell State Forest	Reserve
1251	Orange State Forest	Reserve
1252	Wendell State Forest	Woodland
1253	Wendell State Forest	Woodland
1254	Wendell State Forest	Woodland
1255	Wendell State Forest	Woodland
1256	Montague State Forest	Woodland
1257	Wendell State Forest	Woodland
1258	Wendell State Forest	Woodland
1259	Wendell State Forest	Woodland
1260	Wendell State Forest	Woodland
1261	Wendell State Forest	Woodland
1262	Wendell State Forest	Woodland
1263	Montague State Forest	Woodland
1264	Wendell State Forest	Woodland
1265	Wendell State Forest	Reserve
1266	Wendell State Forest	Reserve
1267	Wendell State Forest	Reserve
1269	Orange State Forest	Reserve
1271	New Salem State Forest	Woodland
1272	New Salem State Forest	Woodland
1273	Shutesbury State Forest	Woodland
1274	Shutesbury State Forest	Woodland
1275	Shutesbury State Forest	Woodland
1276	Shutesbury State Forest	Woodland
1277	Shutesbury State Forest	Woodland
1278	Shutesbury State Forest	Woodland
1279	Shutesbury State Forest	Woodland
1291	New Salem State Forest	Woodland
1292	Montague State Forest	Woodland
1293	Wendell State Forest	Woodland
1294	Wendell State Forest	Woodland
1295	Wendell State Forest	Woodland
1296	Wendell State Forest	Reserve
1297	Wendell State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1298	Wendell State Forest	Reserve
1299	Wendell State Forest	Woodland
1300	Catamount State Forest	Reserve
1301	Catamount State Forest	Reserve
1302	Catamount State Forest	Reserve
1303	Catamount State Forest	Reserve
1304	Catamount State Forest	Reserve
1305	Catamount State Forest	Reserve
1306	Warwick State Forest	Woodland
1307	Northfield State Forest	Woodland
1308	Warwick State Forest	Woodland
1309	Warwick State Forest	Reserve
1310	Warwick State Forest	Woodland
1311	Warwick State Forest	Woodland
1312	Mount Grace State Forest	Woodland
1314	Warwick State Forest	Woodland
1315	Northfield State Forest	Woodland
1316	Northfield State Forest	Woodland
1321	Catamount State Forest	Reserve
1322	Catamount State Forest	Reserve
1341	Mount Sugarloaf State Reservation	Parkland
1342	Mount Sugarloaf State Reservation	Parkland
1343	Mount Sugarloaf State Reservation	Parkland
1344	Mount Sugarloaf State Reservation	Parkland
1345	Mount Sugarloaf State Reservation	Parkland
1369	Mount Toby State Forest	Undesignated
1370	Mount Toby State Forest	Woodland
1371	Mount Toby State Forest	Undesignated
1401	Wendell State Forest	Reserve
1402	Wendell State Forest	Reserve
1407	Wendell State Forest	Reserve
1461	D.A.R. State Forest	Parkland
1480	Dubuque Memorial State Forest	Woodland
1481	Dubuque Memorial State Forest	Woodland
1482	Dubuque Memorial State Forest	Woodland
1483	Dubuque Memorial State Forest	Woodland
1485	Dubuque Memorial State Forest	Woodland
1486	Dubuque Memorial State Forest	Woodland
1487	Dubuque Memorial State Forest	Woodland
1490	Dubuque Memorial State Forest	Woodland
1491	Dubuque Memorial State Forest	Woodland
1492	Dubuque Memorial State Forest	
1501	D.A.R. State Forest	Parkland
1502	D.A.R. State Forest	Parkland
1503	D.A.R. State Forest	Parkland
1504	D.A.R. State Forest	Parkland
1505	D.A.R. State Forest	Parkland
1506	D.A.R. State Forest	Parkland
1507	D.A.R. State Forest	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1508	Dead Branch State Forest	Woodland
1509	Krug Sugarbush	Woodland
1511	Middlefield State Forest	Reserve
1512	Middlefield State Forest	Reserve
1513	Middlefield State Forest	Reserve
1514	Middlefield State Forest	Reserve
1515	Middlefield State Forest	Reserve
1517	Middlefield State Forest	Reserve
1518	Middlefield State Forest	Reserve
1519	Middlefield State Forest	Reserve
1520	Middlefield State Forest	Reserve
1521	Middlefield State Forest	Reserve
1522	Middlefield State Forest	Reserve
1523	Middlefield State Forest	Reserve
1524	Middlefield State Forest	Reserve
1525	Middlefield State Forest	Reserve
1526	Middlefield State Forest	Reserve
1527	Middlefield State Forest	Reserve
1528	Middlefield State Forest	Reserve
1529	Middlefield State Forest	Reserve
1530	Middlefield State Forest	Reserve
1532	Middlefield State Forest	Reserve
1541	Huntington State Forest	Woodland
1542	Huntington State Forest	Woodland
1543	Huntington State Forest	Woodland
1561	J.A. Skinner State Park	Reserve
1562	J.A. Skinner State Park	Parkland
1563	J.A. Skinner State Park	Reserve
1564	J.A. Skinner State Park	Reserve
1565	J.A. Skinner State Park	Reserve
1568	J.A. Skinner State Park	Reserve
1571	Gilbert A. Bliss State Forest	Reserve
1572	Gilbert A. Bliss State Forest	Reserve
1573	Gilbert A. Bliss State Forest	Reserve
1574	Gilbert A. Bliss State Forest	Reserve
1575	Gilbert A. Bliss State Forest	Reserve
1576	Gilbert A. Bliss State Forest	Reserve
1577	Gilbert A. Bliss State Forest	Reserve
1578	Gilbert A. Bliss State Forest	Reserve
1579	Gilbert A. Bliss State Forest	Reserve
1580	Gilbert A. Bliss State Forest	Reserve
1581	Gilbert A. Bliss State Forest	Reserve
1587	Gilbert A. Bliss State Forest	Reserve
1588	Gilbert A. Bliss State Forest	Reserve
1594	Gilbert A. Bliss State Forest	Reserve
1605	Mount Holyoke Range State Park	Reserve
1606	Mount Holyoke Range State Park	Reserve
1607	Mount Holyoke Range State Park	Reserve
1608	Mount Holyoke Range State Park	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1611	Mount Holyoke Range State Park	Reserve
1612	Mount Holyoke Range State Park	Parkland
1614	Mount Holyoke Range State Park	Reserve
1615	Mount Holyoke Range State Park	Reserve
1616	Mount Holyoke Range State Park	Reserve
1617	Mount Holyoke Range State Park	Reserve
1618	Mount Holyoke Range State Park	Reserve
1620	Mount Holyoke Range State Park	Reserve
1621	Mount Holyoke Range State Park	Reserve
1622	Mount Holyoke Range State Park	Reserve
1623	Mount Holyoke Range State Park	Reserve
1624	Mount Holyoke Range State Park	Reserve
1628	Mount Holyoke Range State Park	Reserve
1629	Mount Holyoke Range State Park	Reserve
1630	Mount Holyoke Range State Park	Reserve
1632	Mount Holyoke Range State Park	Reserve
1633	Mount Holyoke Range State Park	Reserve
1651	Chicopee Memorial State Park	Parkland
1652	Chicopee Memorial State Park	Parkland
1653	Chicopee Memorial State Park	Parkland
1654	Chicopee Memorial State Park	Parkland
1701	Chester-Blandford State Forest	Woodland
1702	Chester-Blandford State Forest	Woodland
1703	Chester-Blandford State Forest	Woodland
1704	Chester-Blandford State Forest	Woodland
1705	Chester-Blandford State Forest	Woodland
1706	Chester-Blandford State Forest	Woodland
1707	Chester-Blandford State Forest	Woodland
1708	Chester-Blandford State Forest	Woodland
1709	Chester-Blandford State Forest	Woodland
1710	Chester-Blandford State Forest	Woodland
1711	Chester-Blandford State Forest	Woodland
1712	Chester-Blandford State Forest	Woodland
1713	Chester-Blandford State Forest	Woodland
1731	Tolland State Forest	Reserve
1732	Tolland State Forest	Reserve
1733	Tolland State Forest	Reserve
1734	Tolland State Forest	Reserve
1736	Tolland State Forest	Reserve
1737	Tolland State Forest	Reserve
1738	Tolland State Forest	Reserve
1739	Tolland State Forest	Parkland
1740	Tolland State Forest	Parkland
1741	Tolland State Forest	Reserve
1742	Tolland State Forest	Reserve
1743	Tolland State Forest	Reserve
1744	Tolland State Forest	Reserve
1745	Tolland State Forest	Reserve
1746	Tolland State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1747	Tolland State Forest	Reserve
1757	Tolland State Forest	Reserve
1761	Granville State Forest	Woodland
1762	Granville State Forest	Woodland
1763	Granville State Forest	Woodland
1764	Granville State Forest	Woodland
1765	Granville State Forest	Woodland
1766	Granville State Forest	Woodland
1767	Granville State Forest	Woodland
1768	Granville State Forest	Woodland
1769	Granville State Forest	Woodland
1770	Granville State Forest	Woodland
1771	Granville State Forest	Woodland
1772	Granville State Forest	Woodland
1773	Granville State Forest	Woodland
1774	Granville State Forest	Woodland
1775	Granville State Forest	Woodland
1776	Granville State Forest	Woodland
1791	Robinson State Park	Parkland
1793	Robinson State Park	Parkland
1794	Robinson State Park	Parkland
1796	Robinson State Park	Parkland
1797	Robinson State Park	Parkland
1811	Brimfield State Forest	Reserve
1812	Brimfield State Forest	Reserve
1813	Brimfield State Forest	Reserve
1814	Brimfield State Forest	Reserve
1815	Brimfield State Forest	Reserve
1816	Brimfield State Forest	Reserve
1817	Brimfield State Forest	Reserve
1818	Brimfield State Forest	Reserve
1819	Brimfield State Forest	Reserve
1820	Brimfield State Forest	Reserve
1821	Brimfield State Forest	Reserve
1822	Brimfield State Forest	Reserve
1823	Brimfield State Forest	Reserve
1824	Brimfield State Forest	Reserve
1825	Brimfield State Forest	Reserve
1826	Brimfield State Forest	Reserve
1828	Brimfield State Forest	Reserve
1829	Brimfield State Forest	Reserve
1830	Brimfield State Forest	Reserve
1831	Brimfield State Forest	Reserve
1834	Brimfield State Forest	Reserve
1836	Brimfield State Forest	Reserve
1837	Brimfield State Forest	Reserve
1839	Brimfield State Forest	Reserve
1901	Mount Tom State Reservation	Parkland
1902	Mount Tom State Reservation	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
1903	Mount Tom State Reservation	Parkland
1904	Mount Tom State Reservation	Parkland
1905	Mount Tom State Reservation	Parkland
1906	Mount Tom State Reservation	Parkland
1907	Mount Tom State Reservation	Parkland
1908	Mount Tom State Reservation	Parkland
1909	Mount Tom State Reservation	Parkland
1910	Mount Tom State Reservation	Parkland
1911	Mount Tom State Reservation	Parkland
1912	Mount Tom State Reservation	Parkland
2001	Royalston State Forest	Woodland
2002	Royalston State Forest	Woodland
2003	Royalston State Forest	Woodland
2021	Otter River State Forest	Woodland
2022	Otter River State Forest	Parkland
2023	Otter River State Forest	Parkland
2024	Otter River State Forest	Woodland
2025	Otter River State Forest	Woodland
2026	Otter River State Forest	Woodland
2027	Otter River State Forest	Woodland
2041	Winchendon State Forest	Woodland
2042	Winchendon State Forest	Woodland
2061	Ashburnham State Forest	Woodland
2062	Ashburnham State Forest	Woodland
2063	Ashburnham State Forest	Woodland
2064	Ashburnham State Forest	Woodland
2065	Ashburnham State Forest	Woodland
2066	Ashburnham State Forest	Woodland
2067	Ashburnham State Forest	Woodland
2068	Ashburnham State Forest	Woodland
2069	Ashburnham State Forest	Woodland
2070	Ashburnham State Forest	Woodland
2071	Ashburnham State Forest	Woodland
2072	Ashburnham State Forest	Woodland
2073	Ashburnham State Forest	Woodland
2077	Ashburnham State Forest	Woodland
2079	Ashburnham State Forest	Woodland
2091	Templeton State Forest	Woodland
2092	Templeton State Forest	Woodland
2093	Templeton State Forest	Woodland
2094	Templeton State Forest	Woodland
2095	Templeton State Forest	Woodland
2096	Templeton State Forest	Woodland
2097	Templeton State Forest	Woodland
2098	Templeton State Forest	Woodland
2111	Westminster State Forest	Woodland
2116	Lancaster State Forest	Woodland
2121	Leominster State Forest	Woodland
2122	Leominster State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2123	Leominster State Forest	Woodland
2124	Leominster State Forest	Woodland
2125	Leominster State Forest	Woodland
2126	Leominster State Forest	Woodland
2127	Leominster State Forest	Woodland
2128	Leominster State Forest	Woodland
2129	Leominster State Forest	Woodland
2130	Leominster State Forest	Woodland
2131	Leominster State Forest	Parkland
2132	Leominster State Forest	Woodland
2133	Leominster State Forest	Woodland
2134	Leominster State Forest	Woodland
2135	Leominster State Forest	Woodland
2136	Leominster State Forest	Woodland
2137	Leominster State Forest	Woodland
2138	Leominster State Forest	Woodland
2139	Leominster State Forest	Woodland
2140	Leominster State Forest	Woodland
2141	Leominster State Forest	Woodland
2142	Leominster State Forest	Woodland
2143	Leominster State Forest	Woodland
2144	Leominster State Forest	Woodland
2145	Leominster State Forest	Woodland
2146	Leominster State Forest	Woodland
2152	Johnny Appleseed State Park	Parkland
2153	Johnny Appleseed State Park	Parkland
2161	Petersham State Forest	Woodland
2162	Petersham State Forest	Woodland
2163	Petersham State Forest	Woodland
2164	Petersham State Forest	Woodland
2181	Federated Womens Club State Forest	Woodland
2182	Federated Womens Club State Forest	Woodland
2183	Federated Womens Club State Forest	Woodland
2184	Federated Womens Club State Forest	Woodland
2185	Federated Womens Club State Forest	Woodland
2186	Federated Womens Club State Forest	Woodland
2187	Federated Womens Club State Forest	Woodland
2188	Federated Womens Club State Forest	Woodland
2201	Hubbardston State Forest	Woodland
2202	Hubbardston State Forest	Woodland
2203	Hubbardston State Forest	Woodland
2204	Hubbardston State Forest	Woodland
2205	Hubbardston State Forest	Woodland
2206	Hubbardston State Forest	Woodland
2207	Hubbardston State Forest	Woodland
2221	Oakham State Forest	Woodland
2222	Oakham State Forest	Woodland
2223	Oakham State Forest	Woodland
2224	Oakham State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2225	Oakham State Forest	Woodland
2227	Oakham State Forest	Woodland
2241	Unknown	Undesignated
2242	Barre State Forest	Woodland
2251	North Brookfield State Forest	Woodland
2261	West Brookfield State Forest	Woodland
2271	Spencer State Forest	Parkland
2272	Spencer State Forest	Woodland
2273	Spencer State Forest	Woodland
2274	Spencer State Forest	Woodland
2275	Spencer State Forest	Woodland
2276	Spencer State Forest	Woodland
2277	Spencer State Forest	Woodland
2280	Spencer State Forest	Woodland
2282	Spencer State Forest	Woodland
2292	Upton State Forest	Woodland
2293	Upton State Forest	Woodland
2294	Upton State Forest	Woodland
2295	Upton State Forest	Woodland
2296	Upton State Forest	Woodland
2297	Upton State Forest	Woodland
2298	Upton State Forest	Woodland
2299	Upton State Forest	Woodland
2300	Upton State Forest	Woodland
2301	Upton State Forest	Woodland
2302	Upton State Forest	Woodland
2303	Upton State Forest	Woodland
2304	Upton State Forest	Woodland
2305	Upton State Forest	Woodland
2307	Upton State Forest	Woodland
2308	Upton State Forest	Woodland
2309	Upton State Forest	Woodland
2310	Upton State Forest	Woodland
2311	Blackstone River Heritage State Park	Parkland
2321	Sutton State Forest	Woodland
2322	Sutton State Forest	Woodland
2323	Sutton State Forest	Woodland
2324	Sutton State Forest	Woodland
2325	Sutton State Forest	Woodland
2326	Sutton State Forest	Woodland
2327	Sutton State Forest	Woodland
2329	Sutton State Forest	Undesignated
2330	Sutton State Forest	Parkland
2331	Sutton State Forest	Woodland
2341	Douglas State Forest	Reserve
2342	Douglas State Forest	Reserve
2343	Douglas State Forest	Reserve
2344	Douglas State Forest	Reserve
2345	Douglas State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2346	Douglas State Forest	Reserve
2347	Douglas State Forest	Reserve
2348	Douglas State Forest	Reserve
2349	Douglas State Forest	Reserve
2361	Wachusett Mtn. State Reservation	Parkland
2363	Wachusett Mtn. State Reservation	Parkland
2364	Wachusett Mtn. State Reservation	Parkland
2365	Wachusett Mtn. State Reservation	Parkland
2366	Wachusett Mtn. State Reservation	Parkland
2367	Wachusett Mtn. State Reservation	Parkland
2368	Wachusett Mtn. State Reservation	Parkland
2369	Wachusett Mtn. State Reservation	Parkland
2370	Wachusett Mtn. State Reservation	Parkland
2371	Wachusett Mtn. State Reservation	Parkland
2372	Wachusett Mtn. State Reservation	Parkland
2373	Wachusett Mtn. State Reservation	Parkland
2382	Wells State Park	Woodland
2384	Wells State Park	Woodland
2385	Wells State Park	Woodland
2386	Wells State Park	Parkland
2389	Wells State Park	Woodland
2390	Wells State Park	Woodland
2391	Wells State Park	Woodland
2414	Rutland State Park	Parkland
2450	Douglas State Forest	Reserve
2451	Douglas State Forest	Reserve
2452	Douglas State Forest	Reserve
2453	Douglas State Forest	Reserve
2454	Douglas State Forest	Reserve
2455	Douglas State Forest	Reserve
2456	Douglas State Forest	Reserve
2457	Douglas State Forest	Reserve
2458	Douglas State Forest	Reserve
2459	Douglas State Forest	Reserve
2460	Douglas State Forest	Parkland
2461	Douglas State Forest	Reserve
2462	Douglas State Forest	Reserve
2463	Douglas State Forest	Reserve
2464	Douglas State Forest	Reserve
2466	Douglas State Forest	Reserve
2467	Douglas State Forest	Reserve
2468	Douglas State Forest	Reserve
2470	Douglas State Forest	Reserve
2471	Douglas State Forest	Reserve
2472	Douglas State Forest	Reserve
2473	Douglas State Forest	Reserve
2491	J. Harry Rich State Forest	Woodland
2492	J. Harry Rich State Forest	Woodland
2493	J. Harry Rich State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2501	Willard Brook State Forest	Parkland
2502	Willard Brook State Forest	Parkland
2503	Willard Brook State Forest	Parkland
2504	Willard Brook State Forest	Parkland
2505	Willard Brook State Forest	Parkland
2506	Willard Brook State Forest	Parkland
2507	Willard Brook State Forest	Parkland
2508	Willard Brook State Forest	Parkland
2509	Willard Brook State Forest	Parkland
2510	Willard Brook State Forest	Parkland
2511	Willard Brook State Forest	Parkland
2512	Willard Brook State Forest	Parkland
2513	Willard Brook State Forest	Parkland
2514	Willard Brook State Forest	Parkland
2515	Willard Brook State Forest	Parkland
2516	Willard Brook State Forest	Parkland
2518	Willard Brook State Forest	Parkland
2531	Townsend State Forest	Woodland
2532	Townsend State Forest	Woodland
2533	Townsend State Forest	Woodland
2534	Fessenden Hill WMA	Woodland
2535	Townsend State Forest	Woodland
2536	Townsend State Forest	Woodland
2537	Townsend State Forest	Woodland
2538	Townsend State Forest	Woodland
2539	Townsend State Forest	Woodland
2540	Townsend State Forest	Woodland
2541	Townsend State Forest	Woodland
2542	Townsend State Forest	Woodland
2543	Townsend State Forest	Woodland
2544	Townsend State Forest	Woodland
2545	Townsend State Forest	Woodland
2546	Townsend State Forest	Woodland
2547	Townsend State Forest	Woodland
2548	Townsend State Forest	Woodland
2550	Townsend State Forest	Woodland
2551	Townsend State Forest	Woodland
2552	Townsend State Forest	Woodland
2555	Squannacook Brook State Forest	Reserve
2556	Squannacook Brook State Forest	Reserve
2557	Townsend State Forest	Woodland
2561	Lowell-Dracut State Forest	Parkland
2562	Lowell-Dracut State Forest	Parkland
2563	Lowell-Dracut State Forest	Parkland
2564	Lowell-Dracut State Forest	Parkland
2565	Lowell-Dracut State Forest	Parkland
2566	Lowell-Dracut State Forest	Parkland
2567	Lowell-Dracut State Forest	Parkland
2571	Lowell Heritage State Park	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2581	Billerica State Forest	Parkland
2582	Billerica State Forest	Parkland
2590	Great Brook Farm State Park	Parkland
2591	Great Brook Farm State Park	Parkland
2592	Great Brook Farm State Park	Parkland
2593	Great Brook Farm State Park	Parkland
2595	Great Brook Farm State Park	Parkland
2596	Great Brook Farm State Park	Parkland
2597	Great Brook Farm State Park	Parkland
2601	Cedar Swamp	Parkland
2603	Whitehall State Park	Parkland
2605	Whitehall State Park	Parkland
2606	Whitehall State Park	Parkland
2621	Hopkinton State Park	Parkland
2641	Hopkinton State Park	Parkland
2642	Hopkinton State Park	Parkland
2643	Hopkinton State Park	Parkland
2645	Hopkinton State Park	Parkland
2646	Hopkinton State Park	Parkland
2649	Hopkinton State Park	Parkland
2652	Walden Pond State Reservation	Parkland
2669	Cochituate State Park	Parkland
2671	Callahan State Park	Parkland
2672	Callahan State Park	Parkland
2673	Callahan State Park	Parkland
2674	Callahan State Park	Parkland
2675	Callahan State Park	Parkland
2676	Callahan State Park	Parkland
2677	Callahan State Park	Parkland
2681	Ashland State Park	Parkland
2682	Ashland State Park	Parkland
2683	Ashland State Park	Parkland
2685	Ashland State Park	Parkland
2701	Marlborough-Sudbury State Forest	Woodland
2704	Marlborough-Sudbury State Forest	Woodland
2706	Marlborough-Sudbury State Forest	Parkland
2707	Marlborough-Sudbury State Forest	Woodland
2713	Harold Parker State Forest	Woodland
2714	Harold Parker State Forest	Woodland
2715	Harold Parker State Forest	Parkland
2717	Harold Parker State Forest	Parkland
2723	Harold Parker State Forest	Woodland
2751	Baldpate Pond State Park	Parkland
2761	Maudslay State Park	Parkland
2762	Maudslay State Park	Parkland
2771	Salisbury Beach State Reservation	Parkland
2891	Boxford State Forest	Reserve
2892	Boxford State Forest	Reserve
2893	Boxford State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
2901	Harold Parker State Forest	Parkland
2902	Boxford State Forest	Reserve
2903	Boxford State Forest	Reserve
2904	Boxford State Forest	Reserve
2905	Boxford State Forest	Reserve
2906	Boxford State Forest	Reserve
2907	Harold Parker State Forest	Parkland
2908	Harold Parker State Forest	Woodland
2909	Harold Parker State Forest	Parkland
2910	Harold Parker State Forest	Parkland
2911	Harold Parker State Forest	Parkland
2912	Harold Parker State Forest	Woodland
2913	Harold Parker State Forest	Woodland
2914	Harold Parker State Forest	Woodland
2915	Harold Parker State Forest	Woodland
2916	Harold Parker State Forest	Woodland
2918	Harold Parker State Forest	Parkland
2919	Harold Parker State Forest	Parkland
2921	Harold Parker State Forest	Parkland
2922	Harold Parker State Forest	Woodland
2923	Harold Parker State Forest	Woodland
2925	Harold Parker State Forest	Parkland
2951	Georgetown-Rowley State Forest	Parkland
2953	Georgetown-Rowley State Forest	Parkland
2954	Georgetown-Rowley State Forest	Parkland
2955	Georgetown-Rowley State Forest	Parkland
2956	Georgetown-Rowley State Forest	Parkland
2957	Willowdale State Forest	Reserve
2958	Willowdale State Forest	Reserve
2959	Georgetown-Rowley State Forest	Parkland
2960	Cleaveland Farm	Parkland
2964	Georgetown-Rowley State Forest	Parkland
2971	Willowdale State Forest	Reserve
2972	Willowdale State Forest	Reserve
2973	Willowdale State Forest	Reserve
2974	Willowdale State Forest	Reserve
2976	Willowdale State Forest	Reserve
2977	Willowdale State Forest	Reserve
2978	Willowdale State Forest	Reserve
2979	Willowdale State Forest	Reserve
2980	Willowdale State Forest	Reserve
2981	Willowdale State Forest	Reserve
2982	Willowdale State Forest	Reserve
2983	Willowdale State Forest	Parkland
2984	Willowdale State Forest	Parkland
2985	Willowdale State Forest	Reserve
2986	Willowdale State Forest	Reserve
3003	Bradley Palmer State Park	Parkland
3004	Bradley Palmer State Park	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
3005	Bradley Palmer State Park	Parkland
3201	Franklin State Forest	Parkland
3202	Franklin State Forest	Parkland
3203	Franklin State Forest	Parkland
3204	Franklin State Forest	Parkland
3205	Franklin State Forest	Parkland
3206	Franklin State Forest	Parkland
3221	Wrentham State Forest	Parkland
3222	Wrentham State Forest	Parkland
3223	Wrentham State Forest	Parkland
3224	Wrentham State Forest	Parkland
3225	Wrentham State Forest	Parkland
3241	F. Gilbert Hills State Forest	Woodland
3242	F. Gilbert Hills State Forest	Woodland
3243	F. Gilbert Hills State Forest	Woodland
3244	F. Gilbert Hills State Forest	Woodland
3245	F. Gilbert Hills State Forest	Woodland
3246	F. Gilbert Hills State Forest	Woodland
3247	F. Gilbert Hills State Forest	Woodland
3261	Bristol Blake State Reservation	Parkland
3271	Charles River State Reservation	Parkland
3272	Charles River State Reservation	Parkland
3291	Boston Harbor Islands State Park	Parkland
3292	Boston Harbor Islands State Park	Parkland
3381	Horseneck Beach State Reservation	Parkland
3382	Horseneck Beach State Reservation	Parkland
3383	Horseneck Beach State Reservation	Parkland
3392	West Island State Reservation	Parkland
3393	West Island State Reservation	Parkland
3401	Rehoboth State Forest	Woodland
3411	Berkley State Forest	Woodland
3412	Freetown-Fall River State Forest	Woodland
3413	Freetown-Fall River State Forest	Woodland
3414	Freetown-Fall River State Forest	Woodland
3415	Freetown-Fall River State Forest	Woodland
3416	Freetown-Fall River State Forest	Woodland
3417	Freetown-Fall River State Forest	Woodland
3418	Freetown-Fall River State Forest	Parkland
3419	Freetown-Fall River State Forest	Woodland
3420	Freetown-Fall River State Forest	Woodland
3421	Freetown-Fall River State Forest	Woodland
3422	Freetown-Fall River State Forest	Woodland
3423	Freetown-Fall River State Forest	Woodland
3424	Freetown-Fall River State Forest	Woodland
3425	Freetown-Fall River State Forest	Woodland
3426	Freetown-Fall River State Forest	Woodland
3427	Freetown-Fall River State Forest	Woodland
3428	Freetown-Fall River State Forest	Woodland
3429	Freetown-Fall River State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
3430	Freetown-Fall River State Forest	Woodland
3431	Freetown-Fall River State Forest	Woodland
3432	Freetown-Fall River State Forest	Woodland
3433	Freetown-Fall River State Forest	Woodland
3434	Freetown-Fall River State Forest	Woodland
3435	Freetown-Fall River State Forest	Woodland
3436	Freetown-Fall River State Forest	Woodland
3437	Freetown-Fall River State Forest	Woodland
3438	Freetown-Fall River State Forest	Woodland
3439	Freetown-Fall River State Forest	Woodland
3440	Freetown-Fall River State Forest	Woodland
3441	Freetown-Fall River State Forest	Woodland
3442	Freetown-Fall River State Forest	Woodland
3443	Freetown-Fall River State Forest	Woodland
3444	Freetown-Fall River State Forest	Woodland
3445	Freetown-Fall River State Forest	Woodland
3446	Freetown-Fall River State Forest	Woodland
3447	Freetown-Fall River State Forest	Woodland
3448	Freetown-Fall River State Forest	Woodland
3449	Freetown-Fall River State Forest	Woodland
3450	Freetown-Fall River State Forest	Woodland
3472	Demarest Lloyd State Park	Parkland
3473	Demarest Lloyd State Park	Parkland
3476	Borderland State Park	Parkland
3477	Borderland State Park	Parkland
3478	Borderland State Park	Parkland
3479	Borderland State Park	Parkland
3480	Borderland State Park	Parkland
3481	Borderland State Park	Parkland
3482	Borderland State Park	Parkland
3483	Borderland State Park	Parkland
3485	Borderland State Park	Parkland
3486	Borderland State Park	Parkland
3487	Borderland State Park	Parkland
3488	Borderland State Park	Parkland
3491	Raynham State Forest	Parkland
3501	Massasoit State Park	Parkland
3502	Massasoit State Park	Parkland
3503	Massasoit State Park	Parkland
3504	Massasoit State Park	Parkland
3505	Massasoit State Park	Parkland
3506	Massasoit State Park	Parkland
3507	Massasoit State Park	Parkland
3511	Massasoit State Park	Parkland
3541	Dighton Rock State Park	Parkland
3551	Acushnet State Reservation	Reserve
3552	Acushnet State Reservation	Reserve
3553	Acushnet State Reservation	Reserve
3554	Acushnet State Reservation	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
3555	Acushnet State Reservation	Reserve
3556	Acushnet State Reservation	Reserve
3557	Acushnet State Reservation	Reserve
3558	Acushnet State Reservation	Reserve
3559	Acushnet State Reservation	Reserve
3560	Acushnet State Reservation	Reserve
3601	Kingston State Forest	Woodland
3602	Kingston State Forest	Woodland
3613	Myles Standish State Forest	Reserve
3619	Myles Standish State Forest	Reserve
3620	Myles Standish State Forest	Reserve
3622	Myles Standish State Forest	Reserve
3623	Myles Standish State Forest	Reserve
3624	Myles Standish State Forest	Reserve
3625	Myles Standish State Forest	Reserve
3626	Myles Standish State Forest	Reserve
3627	Myles Standish State Forest	Reserve
3628	Myles Standish State Forest	Reserve
3629	Myles Standish State Forest	Reserve
3630	Myles Standish State Forest	Reserve
3631	Myles Standish State Forest	Reserve
3632	Myles Standish State Forest	Reserve
3633	Myles Standish State Forest	Reserve
3634	Myles Standish State Forest	Reserve
3635	Myles Standish State Forest	Reserve
3636	Myles Standish State Forest	Reserve
3637	Myles Standish State Forest	Reserve
3638	Myles Standish State Forest	Reserve
3639	Myles Standish State Forest	Reserve
3640	Myles Standish State Forest	Reserve
3642	Myles Standish State Forest	Reserve
3643	Myles Standish State Forest	Reserve
3644	Myles Standish State Forest	Reserve
3645	Myles Standish State Forest	Reserve
3646	Myles Standish State Forest	Reserve
3647	Myles Standish State Forest	Reserve
3648	Myles Standish State Forest	Reserve
3649	Myles Standish State Forest	Parkland
3650	Myles Standish State Forest	Parkland
3651	Myles Standish State Forest	Parkland
3652	Myles Standish State Forest	Reserve
3653	Myles Standish State Forest	Reserve
3654	Myles Standish State Forest	Reserve
3655	Myles Standish State Forest	Reserve
3656	Myles Standish State Forest	Not Classified
3657	Myles Standish State Forest	Not Classified
3658	Myles Standish State Forest	Parkland
3659	Myles Standish State Forest	Parkland
3660	Myles Standish State Forest	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
3661	Myles Standish State Forest	Reserve
3662	Myles Standish State Forest	Reserve
3663	Myles Standish State Forest	Reserve
3664	Myles Standish State Forest	Reserve
3665	Myles Standish State Forest	Reserve
3666	Myles Standish State Forest	Reserve
3667	Myles Standish State Forest	Parkland
3668	Myles Standish State Forest	Parkland
3670	Myles Standish State Forest	Not Classified
3671	Myles Standish State Forest	Reserve
3672	Myles Standish State Forest	Reserve
3673	Myles Standish State Forest	Parkland
3674	Myles Standish State Forest	Reserve
3675	Myles Standish State Forest	Reserve
3676	Myles Standish State Forest	Reserve
3678	Myles Standish State Forest	Reserve
3679	Myles Standish State Forest	Reserve
3680	Myles Standish State Forest	Reserve
3681	Myles Standish State Forest	Reserve
3682	Myles Standish State Forest	Parkland
3683	Myles Standish State Forest	Reserve
3684	Myles Standish State Forest	Parkland
3686	Myles Standish State Forest	Parkland
3687	Myles Standish State Forest	Reserve
3688	Myles Standish State Forest	Reserve
3689	Myles Standish State Forest	Reserve
3690	Myles Standish State Forest	Parkland
3691	Myles Standish State Forest	Reserve
3692	Myles Standish State Forest	Parkland
3693	Myles Standish State Forest	Reserve
3694	Myles Standish State Forest	Reserve
3695	Myles Standish State Forest	Reserve
3696	Myles Standish State Forest	Reserve
3697	Myles Standish State Forest	Reserve
3698	Myles Standish State Forest	Reserve
3699	Myles Standish State Forest	Reserve
3701	Wompatuck State Park	Parkland
3702	Wompatuck State Park	Parkland
3703	Wompatuck State Park	Parkland
3704	Wompatuck State Park	Parkland
3706	Wompatuck State Park	Parkland
3707	Wompatuck State Park	Parkland
3708	Wompatuck State Park	Parkland
3709	Wompatuck State Park	Parkland
3710	Wompatuck State Park	Parkland
3711	Wompatuck State Park	Parkland
3713	Wompatuck State Park	Parkland
3714	Wompatuck State Park	Parkland
3715	Wompatuck State Park	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
3716	Wompatuck State Park	Parkland
3717	Wompatuck State Park	Parkland
3718	Wompatuck State Park	Parkland
3719	Wompatuck State Park	Parkland
3720	Wompatuck State Park	Parkland
3721	Wompatuck State Park	Parkland
3722	Wompatuck State Park	Parkland
3723	Wompatuck State Park	Parkland
3731	Ames Nowell State Park	Parkland
3733	Ames Nowell State Park	Parkland
3734	Ames Nowell State Park	Parkland
3735	Ames Nowell State Park	Parkland
3781	Nasketucket Bay State Reservation	Parkland
3782	Nasketucket Bay State Reservation	Parkland
3801	Shawme-Crowell State Forest	Parkland
3802	Shawme-Crowell State Forest	Parkland
3803	Shawme-Crowell State Forest	Parkland
3805	Shawme-Crowell State Forest	Parkland
3806	Shawme-Crowell State Forest	Parkland
3807	Shawme-Crowell State Forest	Parkland
3821	Shawme-Crowell State Forest	Parkland
3831	Barnstable State Forest	Woodland
3841	South Cape Beach State Park	Reserve
3843	South Cape Beach State Park	Reserve
3844	South Cape Beach State Park	Reserve
3861	Nickerson State Park	Parkland
3864	Nickerson State Park	Parkland
3865	Nickerson State Park	Parkland
3866	Nickerson State Park	Parkland
3867	Nickerson State Park	Parkland
3868	Nickerson State Park	Parkland
3869	Nickerson State Park	Parkland
3870	Nickerson State Park	Parkland
3871	Nickerson State Park	Parkland
3872	Nickerson State Park	Parkland
3873	Nickerson State Park	Parkland
3874	Nickerson State Park	Parkland
3901	Quashnet Woods State Reservation	Woodland
3911	Washburn Island	Reserve
3932	Hawksnest State Park	Woodland
4001	Manuel F. Correllus State Forest	Reserve
4002	Manuel F. Correllus State Forest	Reserve
4003	Manuel F. Correllus State Forest	Reserve
4004	Manuel F. Correllus State Forest	Reserve
4005	Manuel F. Correllus State Forest	Reserve
4006	Manuel F. Correllus State Forest	Reserve
4007	Manuel F. Correllus State Forest	Reserve
4008	Manuel F. Correllus State Forest	Reserve
4009	Manuel F. Correllus State Forest	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
4010	Manuel F. Correllus State Forest	Reserve
4011	Manuel F. Correllus State Forest	Reserve
4012	Manuel F. Correllus State Forest	Reserve
4013	Manuel F. Correllus State Forest	Reserve
4014	Manuel F. Correllus State Forest	Reserve
4015	Manuel F. Correllus State Forest	Reserve
4016	Manuel F. Correllus State Forest	Reserve
4017	Manuel F. Correllus State Forest	Reserve
4018	Manuel F. Correllus State Forest	Reserve
4019	Manuel F. Correllus State Forest	Reserve
4020	Manuel F. Correllus State Forest	Reserve
4021	Manuel F. Correllus State Forest	Reserve
4022	Manuel F. Correllus State Forest	Reserve
4023	Manuel F. Correllus State Forest	Reserve
4024	Manuel F. Correllus State Forest	Reserve
4025	Manuel F. Correllus State Forest	Reserve
4026	Manuel F. Correllus State Forest	Reserve
4027	Manuel F. Correllus State Forest	Reserve
4028	Manuel F. Correllus State Forest	Reserve
4030	Manuel F. Correllus State Forest	Reserve
4031	Manuel F. Correllus State Forest	Reserve
4032	Manuel F. Correllus State Forest	Reserve
4051	Nantucket State Forest	Parkland
5002	Mount Greylock State Reservation	Reserve
5003	Mount Greylock State Reservation	Reserve
5004	Mount Greylock State Reservation	Parkland
5005	Mount Greylock State Reservation	Reserve
5006	Mount Greylock State Reservation	Reserve
5007	Mount Greylock State Reservation	Reserve
5008	Mount Greylock State Reservation	Reserve
5009	Mount Greylock State Reservation	Parkland
5010	Mount Greylock State Reservation	Reserve
5012	Mount Greylock State Reservation	Reserve
5013	Mount Greylock State Reservation	Reserve
5014	Mount Greylock State Reservation	Reserve
5015	Mount Greylock State Reservation	Reserve
5017	Mount Greylock State Reservation	Reserve
5018	Mount Greylock State Reservation	Reserve
5019	Mount Greylock State Reservation	Reserve
5020	Mount Greylock State Reservation	Reserve
5021	Mount Greylock State Reservation	Reserve
5022	Mount Greylock State Reservation	Reserve
5023	Mount Greylock State Reservation	Reserve
5024	Mount Greylock State Reservation	Reserve
5025	Mount Greylock State Reservation	Reserve
5026	Mount Greylock State Reservation	Parkland
5027	Mount Greylock State Reservation	Reserve
5028	Mount Greylock State Reservation	Reserve
5029	Mount Greylock State Reservation	Parkland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
5030	Mount Greylock State Reservation	Reserve
5031	Mount Greylock State Reservation	Reserve
5032	Mount Greylock State Reservation	Parkland
5033	Mount Greylock State Reservation	Reserve
5034	Mount Greylock State Reservation	Reserve
5035	Mount Greylock State Reservation	Reserve
5036	Mount Greylock State Reservation	Reserve
5037	Mount Greylock State Reservation	Reserve
5038	Mount Greylock State Reservation	Reserve
5040	Mount Greylock State Reservation	Parkland
5041	Mount Greylock State Reservation	Reserve
5042	Mount Greylock State Reservation	Reserve
5043	Mount Greylock State Reservation	Reserve
5044	Mount Greylock State Reservation	Reserve
5045	Mount Greylock State Reservation	Reserve
5046	Mount Greylock State Reservation	Reserve
5047	Mount Greylock State Reservation	Reserve
5048	Mount Greylock State Reservation	Reserve
5049	Mount Greylock State Reservation	Reserve
5050	Mount Greylock State Reservation	Reserve
5051	Mount Greylock State Reservation	Reserve
5052	Mount Greylock State Reservation	Reserve
5053	Mount Greylock State Reservation	Reserve
5054	Mount Greylock State Reservation	Reserve
5055	Mount Greylock State Reservation	Reserve
5056	Greylock Center	
5057	Mount Greylock State Reservation	Reserve
5058	Mount Greylock State Reservation	Reserve
5059	Mount Greylock State Reservation	Reserve
5060	Mount Greylock State Reservation	Reserve
5061	Mount Greylock State Reservation	Reserve
5062	Mount Greylock State Reservation	Reserve
5063	Mount Greylock State Reservation	Reserve
5065	Mount Greylock State Reservation	Reserve
5066	Mount Greylock State Reservation	Reserve
5067	Mount Greylock State Reservation	Reserve
5068	Mount Greylock State Reservation	Reserve
5069	Mount Greylock State Reservation	Reserve
5070	Mount Greylock State Reservation	Reserve
5071	Mount Greylock State Reservation	Reserve
5073	Mount Greylock State Reservation	Reserve
5074	Mount Greylock State Reservation	Reserve
5076	Mount Greylock State Reservation	Reserve
5077	Greylock Center	Undesignated
5080	Greylock Center	Undesignated
5081	Greylock Center	Undesignated
5083	Greylock Center	Undesignated
5084	Greylock Center	Undesignated
5085	Mount Greylock State Reservation	Reserve

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
5086	Mount Greylock State Reservation	Reserve
5087	Mount Greylock State Reservation	Reserve
5088	Mount Greylock State Reservation	Reserve
5089	Mount Greylock State Reservation	Reserve
5090	Mount Greylock State Reservation	Parkland
5122	Pittsfield State Forest	Woodland
5123	Pittsfield State Forest	Woodland
5126	Pittsfield State Forest	Woodland
5129	Pittsfield State Forest	Woodland
5130	Appalachian Trail Corridor	Reserve
5131	Pittsfield State Forest	Woodland
5134	Appalachian Trail Corridor	Parkland
5135	Appalachian Trail Corridor	Parkland
5136	Appalachian Trail Corridor	Parkland
5138	Appalachian Trail Corridor	Parkland
5201	Mount Everett State Reservation	Reserve
5202	Mount Everett State Reservation	Reserve
5204	Mount Everett State Reservation	Parkland
5205	Mount Everett State Reservation	Reserve
5206	Mount Everett State Reservation	Reserve
5207	Mount Everett State Reservation	Reserve
5208	Mount Everett State Reservation	Reserve
5209	Mount Everett State Reservation	Reserve
5210	Mount Everett State Reservation	Reserve
5211	Mount Everett State Reservation	Reserve
5251	Jug End State Reservation and WMA	Woodland
5253	Jug End State Reservation and WMA	Woodland
5254	Mount Everett State Reservation	Reserve
5255	Jug End State Reservation and WMA	Reserve
5257	Jug End State Reservation and WMA	Reserve
5258	Jug End State Reservation and WMA	Reserve
5259	Jug End State Reservation and WMA	Reserve
5303	Mount Washington State Forest	Reserve
5304	Mount Everett State Reservation	Reserve
5351	Beartown State Forest	Reserve
5352	Beartown State Forest	Reserve
5353	Beartown State Forest	Reserve
5354	Beartown State Forest	Reserve
5355	Beartown State Forest	Reserve
5356	Beartown State Forest	Reserve
5357	Beartown State Forest	Reserve
5358	Beartown State Forest	Reserve
5359	Beartown State Forest	Reserve
5360	Sandisfield State Forest	Woodland
5361	Appalachian Trail Corridor	Parkland
5411	Pittsfield State Forest	Woodland
5412	Pittsfield State Forest	Woodland
5414	Pittsfield State Forest	Woodland
5415	Pittsfield State Forest	Woodland

Appendix 9: CFI Plot, Property and Landscape Designation List

CFI PLOT NUMBER	FOREST	Designation
5419	Pittsfield State Forest	Woodland
6021	Ross Flood Control Site	Parkland
6041	Brewer Brook Flood Control Site	Parkland
6061	Delaney Flood Control Site	Parkland
6065	Delaney Flood Control Site	Parkland
6081	Moore State Park	Parkland
6082	Moore State Park	Parkland
6084	Moore State Park	Parkland
6085	Moore State Park	Parkland
6201	Upton State Forest	Woodland
6204	Upton State Forest	Woodland
6206	Upton State Forest	Woodland
6241	Blackstone River Heritage State Park	Parkland
6244	Blackstone River Heritage State Park	Parkland
6245	Blackstone River Heritage State Park	Parkland
6246	Blackstone River Heritage State Park	Parkland
6248	Blackstone River Heritage State Park	Parkland
6252	Blackstone River Heritage State Park	Parkland
6271	Quinsigamond State Park	Parkland
6304	George H. Nichols Flood Control Site	Parkland
6305	George H. Nichols Flood Control Site	Parkland
6306	George H. Nichols Flood Control Site	Parkland
6325	Barefoot Brook Flood Control Site	Parkland
6332	Hop Brook Flood Control Site	Not Classified
6341	Rawson Hill Brook Flood Control Site	Parkland
6381	Lawton State Forest	Woodland
6382	Lawton State Forest	Woodland
6401	Dunn State Park	Parkland
6441	Lake Wyola State Park	Parkland
6451	Ludlow State Forest	Woodland
6481	Mount Tom State Reservation	Parkland
6542	Connecticut River Greenway SP	Parkland
6543	Connecticut River Greenway SP	Parkland
6583	Erving State Forest	Woodland
7126	Dead Branch State Forest	Woodland
7127	Dead Branch State Forest	Woodland
7203	Otis State Forest	Woodland
7207	Otis State Forest	Woodland
7208	Otis State Forest	Woodland
7218	Otis State Forest	Woodland
7245	Blackberry River Flood Control Site	Woodland
7435	Hampton Ponds State Park	Parkland
7741	Horseneck Beach State Reservation	Parkland
7744	Horseneck Beach State Reservation	Parkland
9998	Myles Standish State Forest	Parkland
9999	Wendell State Forest	Woodland

