

2008 Master Woodland Managers Program
Covers the Counties of Allamakee, Buchanan, Clayton,
Delaware, Fayette, & Winneshiek

[August 21, 28, Sept. 4, 11, 18, 25]

- Objectives:**
- Develop a network of highly-motivated, well-trained volunteers to assist land management professionals in the improvement and expansion of tree resources.
 - Assist participating woodland owners improve management on their own lands by providing intensive forestry training.
 - Stimulate other landowners to improve management of their woodlands by the example, activities, and service projects of these trained volunteers.

Location: Strawberry Point, Clayton County

COURSE OUTLINE

Block One (Thursday, August 21st, 6-10 pm) at Backbone and Lake Lodge

Reading Assignment

- I. Program background, objectives, and plans
 - A. Introducing teaching staff & program participants
 - B. Responsibilities of teachers and of students
 - C. Baseline Quiz

- II. Understanding the tree and the forest
 - A. Tree and shrub identification
 - B. Growth and development of trees
 - C. Site index measurement
 - D. Silvical characteristics of common tree species
 - E. Forest succession
 - F. Tree classification (size, position, developmental stages)
 - G. Stands (types, density, age)

- III. Iowa forests, assistance programs for landowners, management plans
 - A. Current forest resource in Iowa
 - B. Assistance available (programs & people)
 - C. Developing your own woodland management plan; a homework assignment for you!

Chap. 3 & Appendix C;
Pm-1374a, Pm-1383,
Pm-1384, F-308, F-319,
IAN-304, IDNRc

Chap. 1 & Appendix A;
IDNRa, Pm-605,
ITFC, F-340, F-361

Block Two (Thursday, August 28th, 6-10 pm) at Lake Lodge

- VI. Measuring land and trees
 - A. Land (distances, slopes, areas, legal descriptions, boundaries, mapping aerial photos)
 - B. Trees (diameters, total heights, merchantable heights, volume, quality; tree scales)
 - C. Logs (diameters, length, quality; log scales)
 - D. Stands (stocking, basal area)
 - E. Tools of the trade
 - F. GIS?GPS

- VII. Inventorying the forest
 - A. Total vs. partial sample
 - B. Using plots for inventory estimation

Chap. 2, Appendix B & D
Pm-1850

C. Prism cruising

Block Three (Thursday, Sept. 4th, 6-10 pm) location to be announced later

IV. Tending the forest (silviculture)

- A. Regeneration systems (even-aged vs. uneven-aged; clearcutting, seed tree, shelterwood, selection)
- B. Intermediate treatments (weeding, thinning, crop tree release; pruning)
- C. Grazing woodlands
- D. Deer Impact

Reading Assignment*Chap. 4 & 5;*

Pm-941, Pm-1133,
Pm-1374c, Pm-1374d,
F-326, F-327, F-341,
F-350, F-351, F-360, F371
Minn. NR-FO 5938-S

V. Woodlands and Tax Considerations

Chap. 12 & 13;

Pm-1162, F-356

Block Four (Thursday, Sept. 11th, 6-10 pm) location to be announced laterVIII. Planting trees *Chap. 4;*

- A. Purposes for planting
- B. Common planting designs and patterns; planting plans
- C. Matching species to growing site; understanding and using soils information
- D. Selecting tree stock
- E. Preparing the site for planting
- F. Care and handling of planting stock
- G. Planting techniques and methods (hand & machine)
- H. Controlling weeds
- I. Protecting from fire and animal damage

Pm-1271, Pm-1676, Pm-1677,
F-304, F-336, F-345, F-355,
F-358, F-363, F-364,
WL-46, WL-47, IDNRF

IX. Managing insect & disease pests

Chap. 7;

Pm-482, Pm-1280
Pm-1407, Pm-1481

Block Five (Thursday, Sept. 18th, 1-10 pm) location to be announced later

X. Managing woodlands for wildlife

Chap. 10;

- A. Major species (game & nongame)
- B. Individual requirements for different species
- C. Habitat development and improvement

Pm-1302f, Pm-1302g,
Pm-1351b, Pm-1351d,
Pm-1351i, IAN-401

XI. Native Prairie and Savannahs

XII. Specialty plantings

- A. Christmas trees
- B. Maple syrup
- C. Firewood
- D. Windbreaks
- E. Shade Trees
- D. Vitaculture
- G. Riparian Buffers

Pm-1374b,
Pm-1499, Pm-1500,
Pm-1626a, Pm-1626b,
Pm-1716, Pm-1717,
F-335, F-337, F-338, F-348,
F-354, F-359, F-370
SUL-5

XII. Marketing timber

Chap. 8, 9, 11;

- A. Biological vs. economic maturity
- B. Pre-harvest operations; post-harvest treatments
- C. Selling procedures and methods
- E. Field exercises
- F. BMP's

Pm-413, Pm-413a,
Pm-413b, F-301, F-325,
IDNRe

- XIII. Utilizing native timber (Denny Michaels/ portable mill operation) Pm-329, Pm-362, F-303, F-305,
F-307, F-315, F-328, F-352, F-365,
F-367
- XIV. Assessing progress on your management plans F-367

Block Six (Thursday, Sept. 25th, 1-10 pm) at Yellow River State Forest - Headquarters

- XV. Outdoor laboratories and field exercises
A. Crop tree release
B. Inventory and stand prescription
- XVI. Field exams
A. Tree and shrub identification
B. Measurement and evaluation of standing trees
- XVII. Small group discussions of stewardship plans
- XVIII. Written exam & review
- XIX. Evaluation of program and instruction by participants
- XX. Presentation of certificates & patches
- XXI. Discussion of public service activities and commitments

Textbook Provided:

Woodland Stewardship-A practical guide for midwestern landowners
by M.J. Baughman, A.A. Alm, A.S. Reed, T.C. Eiber, and C.R. Blinn. Minnesota
Extension Service, 1993, 195 pages.

SPEAKERS:

Bruce Blair, District Forester, Iowa DNR,
Gary Beyer, District Forester, Iowa DNR
Greg Heidebrink, District Forester, Iowa DNR
Joe Herring, District Forester, Iowa DNR
Christine Engelbrecht, Plant Pathology, Iowa State University, Ames
Tree planting consultant
Steve Jungst, Professor of Forestry, Iowa State University, Ames
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Mark Shour, Extension Entomologist, Department of Entomology, Iowa State University, Ames
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SPONSORS:

Bureau of Forestry, Iowa Dept. of Natural Resources
Forestry Extension, Iowa State University
Iowa Tree Farm Committee
Iowa Woodland Owners Association
Iowa State University Cooperative Extension