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BLACKSBURG, VA

4-H FORESTRY DEMONSTRATIONS

Four-H members will find pleasure and reward in doing 4-H Forestry demonstrations. Opportunities for achievement and advancement are numerous as easy-to-do and more detailed demonstrations are effectively presented. Parents, as well as 4-H leaders and extension agents, may work with 4-H members in developing and becoming proficient in giving demonstrations.

Program Objectives

1. To help 4-H members develop personally, organize thoughts, speak with poise, coordinate actions with speaking, build confidence, increase knowledge and skills.
2. To develop a greater appreciation among 4-H members and others of the importance of forestry and forest products to themselves, their communities, state and nation.
3. To train 4-H members to carry out recommended forestry practices.
4. To encourage and teach others to carry out recommended forestry practices.
5. To develop forestry leaders in 4-H clubs who can later become community leaders in forestry.

Who Can Participate

The wide selection of possible demonstrations should not limit demonstrations to farm boys. Both boys and girls, regardless of whether they live in a rural or urban environment, can procure material for demonstrations of their choice.

Demonstration Aids

1. Use forestry demonstration subject guide outlines or use an outline to develop a subject of your own.
2. 4-H forestry record books and training publications.

SUGGESTED PROCEDURE FOR 4-H FORESTRY DEMONSTRATIONS

1. Club members, with assistance from parents, 4-H leader or extension agents, decides upon demonstration title, develops demonstration outline, obtains materials and practices giving demonstrations.
2. When presenting a demonstration at a 4-H meeting, civic club meeting, county, district, or state contest, the contestant comes to the meeting place early enough to get started at the appointed time. He must have all equipment and supplies with him which he will need for the demonstration. Parents, leaders, or others may assist with this.
3. Contestants should be well groomed and appropriately dressed for the type of demonstration being presented. This might be work clothes or other appropriate dress.
4. Contestant will be given time to arrange his material prior to the beginning of his demonstration. Material should be arranged in a logical working order so that the demonstration will be presented well and without delay.
5. When the contestant begins his demonstration, he faces his audience and introduces himself. He might also briefly tell his audience where he is from, the name of his 4-H club, the number of years in 4-H club work, the number of forestry projects he has completed and the forestry project or projects he is presently conducting (much of this will depend upon where the demonstration is being presented - in the club or in a district or state contest).
6. The contestant then gives a concise statement of
 - a. What he will demonstrate.
 - b. Why what he is demonstrating is important.
 - c. The practical application of what he is about to do.
7. Presents demonstration. He does the thing specified as he tells how to do it.
8. Contestant should limit himself to one theme for his demonstration. His statements should be clear, concise and accurate. He should speak with authority when presenting his demonstration or answering questions relative to it. The use of action words such as cut, saw, etc., are important.
9. Posters with demonstration title, outline materials, conclusions, or other helpful visual aids are often important to success achieved.
10. Upon completion of demonstration the contestant should summarize the main points of what he has presented.
11. After the summary the contestant should ask the audience if they have questions. It is well to repeat the question before answering.

12. After a brief question and answer period, the contestant should thank the members of the audience for their attention and invite them to adopt the idea presented for use at home or on the farm. This completes the demonstration.
13. The contestant should then promptly remove all the material or equipment he has been using
14. All 4-H demonstrations, if scored by VPI Extension Form #62, Score Card for Forestry Demonstrations, should be limited to fifteen minutes.

4-H FORESTRY DEMONSTRATION GUIDE OUTLINE

No. 1 - Tree Planting (including heeling-in trees)

A. Materials needed

1. A bundle of seedlings as received from the nursery or a buncle made up to look like one.
2. A bucket of water, a planting bar and mattock, shovel and pliers.
3. Box with soil for demonstrating heeling-in and the planting of a tree.
4. Charts or diagrams that will help in explaining your demonstration.

B. Introduction

1. Introduce yourself
2. State briefly
 - a. What you will demonstrate.
 - b. The importance of what you are about to demonstrate.
 - c. The practical application of what you are about to do.

C. Demonstration

1. Heeling-in trees
 - a. Explain briefly where and how to get seedlings and how they are shipped from the state nursery.
 - b. Explain why seedlings may need to be heeled-in and how long they may be left in the heeling-in bed before planting.
 - c. Demonstrate how trees are heeled-in.
2. Planting seedlings
 - a. Describe briefly the planting of trees, including site preparation, spacing, and species to plant.
 - b. Demonstrate proper method of planting seedlings with a planting bar or mattock or both.

D. Conclusion

1. Review main points of the demonstration.
2. Invite questions.
3. Thank audience for attention.

E. References

1. How to Plant Forest Tree Seedlings, S.P.C.A.
2. Tree Planting in the Central, Piedmont and Northern Appalachian Region. Farmers Bulletin No. 1994, U.S.D.A.
3. Forests from Idle Land, A Planting Guide, Virginia Division of Forestry. Publication #65.

4-H FORESTRY DEMONSTRATION GUIDE OUTLINE

No. 2 - Timber Estimating and Log Scaling

A. Materials Needed

1. V.P.I. Tree and Log Scale Stick
2. Section of a tree for demonstrating the use of the V.P.I. Tree and Log Scale Stick. A section about 3 feet long and 7 to 8 inches in diameter is suggested.
3. Charts or diagrams that will help in explaining your demonstration.

B. Introduction

1. Introduce yourself.
2. State briefly
 - a. What you will demonstrate
 - b. The importance of what you are about to demonstrate
 - c. The practical application of what you are about to do.

C. Demonstration

1. Timber Estimating
 - a. Describe that part of the tree scale stick used for measuring the diameter and height of the tree and how it is used.
 - b. Using the tree section, demonstrate how to measure the diameter of a tree.
 - c. Demonstrate the use of the stick in measuring the number of logs or pulp sticks in a tree.
 - d. With the above two measurements, determine the board foot volume of the tree from the tree volume table on the stick.
2. Log Scaling
 - a. Explain the measurements needed to determine the board foot contents of individual logs and how they are taken.
 - b. Using the tree section, demonstrate how the measurements are taken.
 - c. With the measurements taken, determine the board foot contents of the log.

D. Conclusion

1. Review main points of the demonstration.
2. Invite questions.
3. Thank audience for attention.

E. References

1. How to Use the V.P.I. Tree and Log Scale Stick. Circular #745, V.P.I. (a supply of these may be obtained from your 4-H agent to distribute to audience).
2. Measuring and Marketing Farm Timber. Farmers Bulletin #1210, U.S.D.A.

Note: A tree scale stick may be purchased from Extension agents for 35 cents.

4-H FORESTRY DEMONSTRATION GUIDE OUTLINE

No. 3 - Pressing and Mounting Leaves and/or Making Leaf Prints

A. Materials needed

1. For pressing and mounting leaves
 - a. Newspaper or blotting paper
 - b. Weights
 - c. Mounting sheet and tape
2. For making leaf prints
 - a. Stamp pad or printer's ink
 - b. Roller if printer's ink is used
 - c. Piece of glass if printer's ink is used
 - d. 8½ by 11 mimeograph paper

B. Introduction

1. Introduce yourself
2. State briefly
 - a. What you will demonstrate
 - b. The importance of what you are about to demonstrate
 - c. The practical application of what you are about to do.

C. Demonstration

1. Pressing and mounting leaves
 - a. Explain the quality of leaf preferred.
 - b. Explain how and how long to press leaf.
 - c. Demonstrate how to mount leaf on paper.
 - d. Exhibit leaf pressed and mounted prior to demonstration and tell what information should be included with mounted specimen.
2. Making leaf prints.
 - a. Explain briefly what is to take place.
 - b. Go through steps of making leaf print by the method you select.
 - c. Exhibit the leaf print you have made during the demonstration.
 - d. Pass to audience one or more leaf prints prepared prior to exhibit.
 - e. Tell what information should be included with mounted specimen.

D. Conclusion

1. Review main points of the demonstration.
2. Invite questions.
3. Thank audience for attention.

E. References

1. How to Make Leaf Prints. MT-66, V.P.I. Forestry Extension
2. Pressing Leaves and Flowers. V.P.I. Circular #795
3. Forestry in Virginia. Bulletin #223, revised. V.P.I. Agricultural Extension Service.

4-H FORESTRY DEMONSTRATION GUIDE OUTLINE

No. 4 - Elimination of Inferior Hardwood Growth - Including the Use of 2,4,5-T

A. Materials needed

1. Axe
2. Chemical solution (2,4,5-T plus fuel oil).
3. Container for applying chemical
4. Portion of tree trunk on which frills and girdle have been made.
5. Charts or diagrams that will help in explaining your demonstration.

B. Introduction

1. Introduce yourself.
2. State briefly
 - a. What you will demonstrate.
 - b. The importance of what you are about to demonstrate.
 - c. The practical application of what you are about to do.

C. Demonstration

1. Use of chemical
 - a. Explain method of application
 - (1) Large trees
 - (2) Small trees
 - (3) Stumps of freshly cut trees
 - b. Explain advantage and disadvantages of using chemicals.
2. Double hack girdle without use of chemical
 - a. Explain method of making girdle.
 - b. Explain advantage and disadvantages.
 - c. Explain when this method may be recommended.

D. Conclusion

1. Review main points of demonstration.
2. Invite questions.
3. Thank audience for attention.

E. References

1. Control of Unwanted Hardwood Growth. V.P.I. Extension Service MT-36
2. Improving the Timber Stand. S.P.C.A.
3. Growing Loblolly and Shortleaf Pine in the Mid-South. U.S.D.A. Farmers Bulletin #2102

Other Demonstration Suggestions

1. How forest fires are located
2. How trees grow
3. How to identify trees
4. How to pile lumber
5. How to find your way out of woods if lost
6. How to use an axe safely
7. How to use a power saw or tools safely
8. Treating fence posts
9. How forests prevent erosion
10. How to prune crop trees
11. How superior trees are reproduced for better forest trees
12. How paper is made.

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