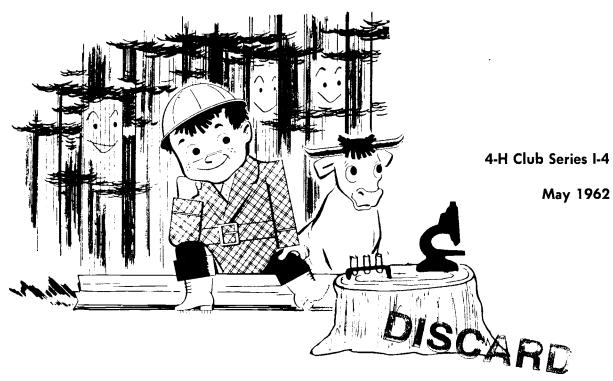
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Oregon

4-H Forestry Project and Advancement Program



Address

School or community

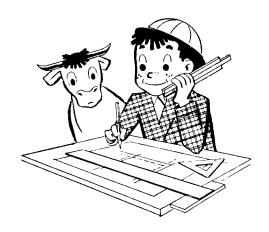
County

Club leader

Name of club

Cooperative Extension Service

Oregon State University, Corvallis



Oregon 4-H Forestry Project

What do you do in a 4-H Forestry project?

Each year you must do the following:

- 1. Take at least three hikes into the woods to study trees, other forest plants, and wildlife. Find and identify at least 10 forest items on each hike. (Use pocket guide.)
- 2. Learn to identify at least 10 new trees or forest plants.
- 3. Observe 5 or more different kinds of native birds, animals, fish, or reptiles. Be able to describe them. Tell what they eat, where they nest or have their young, how they spend the winter, and how they fit into the life of the forest.
- 4. Learn at least 10 new "woods words."

 Know their meaning and how to spell them.
- 5. Participate in your club's activities.
 - a. Attend club meetings regularly and be on time. You may be dropped from the club if you have two consecutive or a total of three unexcused absences. Be sure to call your leader and get excused if you cannot attend.
 - b. Individual members (those not in a 4-H club) must complete a step in the advancement program each year until they have completed three steps (or equivalent).
- 6. Advance as far as you can in the Forestry Advancement program.
- 7. Write a story of your experiences as a 4-H forestry club member on "My 4-H Story" form.
- 8. Fill out and return a 4-H completion form or help your leader fill out the club completion form.

You will continue to use the 4-H Forester Manual, Club Series I-1, with this revised forestry project. These requirements replace those listed in the manual.

4-H Forestry Advancement Program

The 4-H Forestry Advancement program is an important part of your forestry project. It will become a part of your 4-H records and should be included when records are called for.

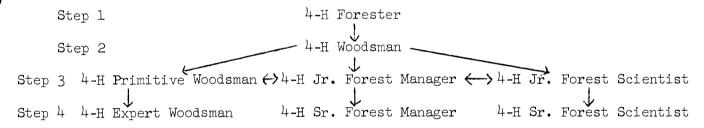
The 4-H Forestry Advancement program

- ... makes your project even more interesting
- ... helps you learn more about forestry
- ... provides a choice of activities and interests to you
- ... gives you credit for extra work done
- ... allows you to advance as rapidly as your interest and ability will permit
- ... is a voluntary activity to challenge your interest in forestry

The advancement program is divided into several steps, each with a greater degree of difficulty. As you complete each job, have it initialed by your 4-H leader or parent. When you have completed all of the requirements, your leader will make arrangements for you to qualify for the advancement certificate.

You can do optional jobs for any of the steps in the advancement program. However, you will not qualify for any certificate unless you have passed all of the previous steps. Some steps have identical jobs. In this case choose different options or do the same job over and try to do it better.

The steps in the 4-H Forestry Advancement program are:



Each member must complete the 4-H Forester and 4-H Woodsman before going into Step 3. There, you choose the field in which you are most interested. You may go from one phase of Step 3 to another if you wish. For example, if you have completed the Primitive Woodsman, you may take either the Expert Woodsman or the Junior Forest Manager or 4-H Junior Forest Scientist as your next step. You may work on two or more steps at the same time.

You will need help beyond your project book to complete the advanced steps. You will find this information in books, pamphlets, bulletins, magazines, newspapers, and many other sources. This is part of your responsibility in becoming more familiar with your special interest in the field of forestry. Your 4-H Club leader, county Extension agent, and professional foresters can be helpful to you when working on your advancement.

Individual members note: Many of the requirements in the 4-H Forestry Advancement program refer to "your 4-H Club." If it is not possible to be in a club, you may substitute "some other group or your family" for the words "your club." The other group could be your class in school, Sunday school class, or another club.



How to Become a 4-H Forester

	ì	A SEE	Date	Leader's initials
1.		e a plant press and collect, press, and mount foliage seed or flowers of 10 different forest plants.		
2.	Com	plete one of the following:		
	a.	Give a report to your club on one kind of tree. Tell how to identify the tree, where it grows, its uses, and any other interesting things you have learned about it.		
	b.	Show and tell your club how to do or make something related to forestry.		
	c.	Take a hike into the woods with one or two of your club mates. Report to your club where you went and what you saw.		
	d.	Tell a story about the out-of-doors to your club or some other group.		
3.	Com	plete two of the following:		
	a.	Visit a forest lookout or guard station.		
	ъ.	Visit a district forestry office.		
	c.	Visit a fish hatchery.		
	d.	Visit a hydroelectric power plant.		
	e•	Attend a lecture or motion picture having to do with some phase of forestry.		
	f.	Make or help make a 4-H window display on forest fire prevention or some other phase of forestry.		
4.	Con	plete one of the following:		
	a.	Have a club meeting at your house.		
	b.	Lead the flag pledges at a meeting.		
	С.	Serve as an active officer of your club.		

			Date	Leader's initials
	d.	Invite a group of your friends to your home and tell them about your forestry project.		
	e.	Take a group of your friends on a hike to a place you have enjoyed on a previous hike.		
5•	Com	plete one of the following:		
	a.	Plant 10 forest trees.		
	b.	Make a display of 5 different kinds of leaf prints.		
	c.	Make and post a fire prevention sign.		
	d.	Join the Oregon Green Guard.		
	e.	Make a winter bouquet of forest materials.		
	f.	Make a centerpiece of forest materials.		
6.	Com	plete one of the following:		
	a.	Build a safe campfire and put it out correctly.		
	b.	Learn to tie a square knot and three other knots useful to a woodsman.		
7•	and use Lew Jim	d the story of one great American scout or woodsman write or tell your parents or club the methods he d to live in the woods. The following are suggestions: is and Clark, David Douglas, Kit Carson, Daniel Boone, Bridger, Jedediah Smith, Peter Skene Ogden, John Muir, ef Joseph, or Indian tribes of this region.		
8.	Wri	te or tell the meaning of the following plant terms:		
		tree shrub parasite moss species coniferous lichen deciduous multiple use		



How to Become a 4-H Woodsman

(You must have completed the 4-H Forester)

			D = 4 =	Leader's
1.	Hel up	p out overnight with your 4-H Club or your family. p plan the camping trip, select the campsite, set camp, prepare a meal, and help clean up the camping a before you leave.		initials
2.	fis	k and eat at least one meal including raw meat, h, or poultry, a raw vegetable, and some type bread or cereal. Cook meal over an open fire.		
3•		w and tell (demonstrate) your club or some other up how to do something related to forestry.		
4.	obj hea tra (If	prepared to demonstrate first aid for: burns, cuts, ect in eye, fracture, insect bites, poison oak, rt attack or drowning, shock, serious bleeding, and nsportation of an injured person. time is short your leader may ask you to show ly 2 or 3, but you should know them all.)		
5•	Com	plete one of the following:		
	a.	Lead your club in a game.		
	b.	Lead your club in a song.		
	c.	Plan a picnic or camping trip.		
	d.	Observe in the forest 3 different kinds of forest mammals and report at a club meeting how they live.		
6.	Com	plete one of the following:		
	a.	Invite a fish and game supervisor or experienced sports-man to discuss fish and game laws with your club.		
	ъ.	Visit a forest fire-fighting unit or invite a fire warden to demonstrate fire fighting equipment, building of fire lines, etc. at one of your club meetings		

			 Leader's initials
	С.	Visit a certified tree farm or some forest industry.	
7•		l or write about the proper kinds of clothing to r in the woods for different kinds of weather.	
8.	Com	mplete one of the following:	
	a.	Label 5 or more trees and/or shrubs in a park or picnic area.	
	b.	Participate in a tree identification contest.	
	С.	Establish a forest-plant garden of 5 or more forest plants.	
9•	Con	plete one of the following:	
	a.	Release 10 coniferous seedling trees from brush.	
	b.	Prune 10 forest trees to a height of 10 or more feet.	
	C.	Prune and scar 10 small coniferous trees so the foliage will "brush up" to form better Christmas trees.	
	d.	Plant 25 forest trees.	
10.	Sho	ow how to sharpen, care for, and use a knife correctly.	



How to Become a 4-H Primitive Woodsman

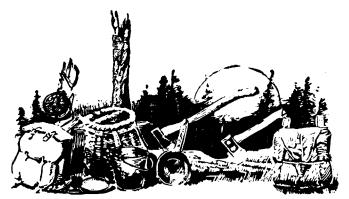
(You must have completed the 4-H Woodsman)

		D a te	Leader's initials
1.	Select and prepare all equipment and food necessary for an overnight campout. This is to be used in completing requirements 2 and 3.		
2.	Camp out overnight at a campsite at least a mile from where you are required to leave your car. Transportation by foot only.		
3.	Cook at least two meals over an open campfire.		
4.	Make a compact lost-aid kit.		
5.	Build a safe campfire from materials available at the campsite. You may use matches but no paper allowed.		
6.	Complete one of the following:		
	a. Make a ground bed and sleep on it one night.		
	b. Find, prepare, and eat three different kinds of edible forest foods, not to include more than one type of berry. Include some that are available during the winter. (Do not include mushrooms.)		
	c. Build a latrine for a camping ground.		
7•	Learn the eight principal points of the compass. Lay out north-south lines using (a) the sun, (b) the stars, (c) a compass.		
8.	Complete one of the following:		
	a. Make a sketch by which someone not familiar with the area could find your campsite, picnic area, fishing or swimming hole, or some other interesting outdoor spot. Show directions, roads, trails, creeks, trees,		

			Date	Leader's initials
	b.	Using a topographic map, show and explain contour lines and major symbols found on the map.		
9•	car	onstrate how to sharpen, ry, and use an axe rectly.		
10.	Com ing	plete one of the follow-		
	a.	Make and mount a wood- duck nesting box or a bird house.		
	b•	Make an article of out- door camping equipment such as a packboard, first aid kit, sheath for an axe or knife, reflector oven, dried food sack, trench candle, tent.		
11.		onstrate how to build three or more of the following es of campfires:		
		Teepee or wigwam fire Indian, star, or lazy man's fire Hunter-trapper fire Log cabin or criss-cross fire Fire-in-a-hole Trench fire Automatic stew fire Reflector fire Altar fire		

How to Become a 4-H Expert Woodsman

(You must have completed the 4-H Primitive Woodsman or equivalent experience)



			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	THE RESERVE
			Date	Leader's initials
1.	tri the	er guidance of an adult leader, make a three-day pack p on foot, camping out each night and living on only items you carry in your pack or native materials you find in the woods.		
2.	Com	plete one of the following:		
	a.	Take a "beeline" compass hike of at least one mile.		
	b.	Take a pacing and compass problem of at least one mile.		
	c.	Plot your route from a map and follow it by use of landmarks and compass. Do not follow a regular or blazed trail.		
3•		l or write what you should do if lost in the woods complete one of the following:		
	a.	Find, prepare, and eat three different kinds of forest foods other than berries. Include at least one that is available during the winter. (Do not include mushrooms.)		
	b.	Plan and take an overnight hike including at least one meal. Use only bedroll or sleeping bag, ground cloth, knife, matches, cup and flour, and materials in your lost-aid kit, plus available material found on the trip.		
	c.	Read the story of one great American scout or woods- man and attempt an overnight using only the methods he used to survive.		
	d.	Construct a simple snare or trap for capturing small animals.		

		4.	woo hit two she kno	e seven knots useful to a odsman (square knot, timber sch, bowline, clove hitch, o half hitches, sheepshank, eet bend, girth hitch, slip ot, snubbing hitch, catspawach, taut line hitch, etc.)	Date	Leader's initials
5•	str	rking with one or two of retcher from clothing ar rrying an injured person	nd fo	•		
6.	Do	one of the following:				
	a.	Waterproof a pair of l to care for them.	Leath	ner boots and tell how		
	b.	List nine essentials f	for a	a woodsman on a hike:		
		(1 (2 (3 (4 (5 (6		(7 (8 (9		
	C.		shine	with two of the following: , diagonal lashing, tripod d continuous lash.		
7.	Con	mplete one of the follow	ing:			
	a.			elating to woodsmanship or than your own 4-H Club.		
	b•	Tell a story about the or some other group.	e out	-of-doors to your club		
	с.	Help plan and conduct	a Su	nday service in the woods.		
	d.	Help plan and supervis	se ga	mes for a camp.		
8.		ate the North Star from	ı two			
	a. b.	Cassiopeia (chair) Cygnes (swan)	c. d. e.	Ursa minor (little dipper) Ursa major (big dipper) Draco (dragon)		

9. Review the first aid learned in the 4-H Woodsman.

How to Become a 4-H Junior Forest Manager

	(You must have completed the 4-H Woodsman)	Date	Leader's initials
1.	Collect and mount or preserve 6 different kinds of harmful forest insects, fungi, or mistletoe, and tell the damage they do. Tell how they fit into the life of the forest.		
F-	2. Do two of the following:		
Í	a. Plant 50 or more forest trees.		
To all	b. Release 25 or more coniferous seedlings from brush species or over-topping broadleaf trees.		
is the	c. Scarify ground so that seed falling naturally can reach mineral soil and grow.		
	d. Transplant 5 native trees from an undesirable to a desirable location.		
	e. Plant a windbreak for your farm,		
3.	Make a cruiser's (Biltmore) stick.		
4.	Scale 5 logs and get board-foot volume.		
5.	Give a demonstration related to forest management.		
6.	Visit two or more of the following with guidance from a person who knows the operation.	_	
	Furniture plant		
	Fibreboard plant		
	Greenery plant		
	Logging operation		
	Sawmill		
	Lumber yard		
	Pulp mill		
	Plywood plant		

			Date	Leader's initials
	Cei	rtified tree farm		
	For	rest nursery		
	For	rest management demonstration area		
	For	est research station		
	Chr	istmas tree farm		
	For	est lookout		
	Dis	trict office of public forestry agency		
	Any	other operation important to forest management	(Name)	
7.	Do	one of the following:		
	a.	Prune 10 crop-trees in a young coniferous forest.		
	b.	Prune, shape, and otherwise improve a stand of Christmas trees.		
	с.	Harvest or help in harvesting a forest product such as fuelwood, posts, poles, sawlogs, seed cones, Christmas trees, cascara bark, sword fern, forest greenery.		
8.	Com	plete one of the following:		
	a.	Show types of wood material that can be cut without injury to the forest.		
	b.	Clear out a spring to provide water for a recreation area.		
	C•	Make a list of native forest trees in your area and be able to identify them.		
	d.	Plan and supervise games for a 4-H forestry outing.		
	e.	Plan and help conduct a campfire program.		
	f.	Collect specimens and help conduct a forestry identification contest.		

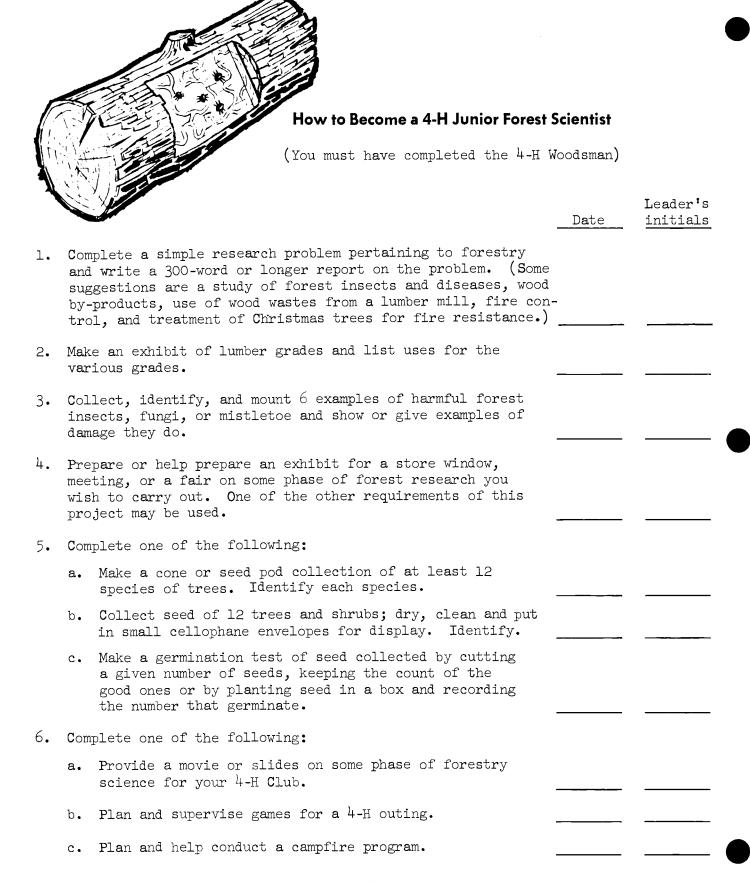


How to Become a 4-H Senior Forest Manager

(You must have completed the 4-H Jr. Forest Manager)

		Date	Leader's initials
1.	Sketch or trace a map of a small woodland. (Aerial photos are a good starting point.) Go over the ground carefully and color on the map the portions that will (1) reforest naturally, (2) need artificial reforestation. Show location of surface features such as roads, fences, streams, trails, buildings, etc. Indicate north on the map.		
2.	Complete one of the following:		
	a. Release 50 or more coniferous seedling trees from brush.		
	b. Transplant 10 native trees from an undesirable to a desirable location.		
	c. Grow 100 or more forest trees from seed.		
3•	Give a demonstration related to forest management.		
4.	Make a growth study of 10 forest trees of the same species. Record opening of buds, flowering, fruiting, wildlife use, d.b.h., height, and branch or leader growth of each.		
5•	Cruise a one-fifth acre circle or a one-fourth acre square forest plot, or about 20 trees, and measure the merchantable (saleable) trees. All members of a club may use the same area but each member will make his own estimate of merchantable trees in board feet or cords. Since cruising is often considered a two-man job, two 4-H'ers may work together in cruising the plot.		
	A local forester will usually instruct 4-H forest managers in cruising the plot. The tools needed are not difficult to obtain. Follow these steps in measuring the volume of a standing tree:		
	a. Measure the diameter of the tree in inches at $4\frac{1}{2}$ feet above average ground level. (This is d.b.hdiameter at breast		
	b. Estimate the total height of the tree in feet or estimate number of usable 16-foot logs that can be cut from it. I method you use depends upon the tree volume tables you have	.he	
	c. Use tree volume tables to look up the volume of the tree in board feet or in cords.		

			D a te	Leader's initials
6.	Con	mplete one of the following:		
	a.	Make a reproduction or stand count in a small reforesting area.		
	b.	Label trees and shrubs in a park or recreational area.		
	с.	Trap or poison mice or treat trees to prevent rodent or deer damage.		
	d.	Carry out a mountain beaver or porcupine eradi- cation program where damage occurs.		
7.	Con	plete one of the following:		
	a.	Thin or help in thinning a young coniferous stand.		
	b•	Practice erosion-control tree planting.		
	с.	Make cuttings of black cottonwood and reforest an abandoned wet meadow or other swampy area not now producing a desirable crop.		
8.	Con	plete one of the following:		
	a.	Serve as a junior leader of a 4-H Club.		
	b.	Give a talk or demonstration on some phase of forestry on radio or TV or at a meeting other than your 4-H Club.		
	C•	Plan and help conduct an outdoor Sunday service.		
	d.	Help prepare an educational forest display for a store window or meeting.	<u>-</u>	
9•	two saw	onstrate how to use safely an axe and other forest tools such as pruning , knife, machete, planting hoe, hazel , or power saw.		
10.	Com	plete one of the following:		
	a.	Develop a spring or water hole for fire protection purposes.		
	b.	Participate in some local fire prevention or suppression activity as approved by your local forest warden, Keep Oregon Green Association, ranger, or other forestry representative.		
	C.	Develop fire trails around and through a piece of woodland or work on a fire line.		
	d.	Locate a supply of fire fighting water and plan access to it.		



			Date	Leader's initials
	d.	Collect specimens and help conduct a forestry identification contest.		
7.	Com	plete one of the following:	•	
	a.	Make an exhibit of Oregon's major forest products.		
	b.	Make a growth study of 3 different species of forest trees. Record opening of buds, flowering, fruiting, wildlife use, d.b.h., height, and branch or leader growth.		
	C•	Make a wood sample collection of at least 15 different woods.		
8.		sent a demonstration to your club or some other group some phase of forestry which interests you.		

How to Become a 4-H Senior Forest Scientist

(You must have completed the 4-H Junior Forest Scientist)



			Date	Leader's initials
1.	and sug hyb	restigate some phase of forestry which interests you write a 500-word report on your research. Some gestions include selection of superior tree strains, wridization, wood preservation methods, and structural ength of wood.		
2.		te a talk concerning forestry before your club, other group, or on radio or TV.		
3•	Con	aplete one of the following:		
	a.	Make a survey of at least 20 families to determine the kind and size Christmas tree that is most popular in your community.		
	b.	Make a study to determine all of the native edible plants available in a given area.		
	c.	Measure and record the amount of rainfall over a year's period.		
	d.	Prepare and treat 10 or more posts with an effective wood preservative.		
4.	Write an essay on the influence forest and range management has on the supply of irrigation water and water for other uses.			
5.	Complete one of the following:			
	a.	Serve as a junior leader of a 4-H Club.		
	b•	Prepare or help prepare an educational forestry display for a store window or meeting.		
	с.	Plan and help conduct games and other activities for an outdoor meeting or gathering.		

			Date	Leader's initials
	d.	Help organize a 4-H forestry club in some community in your county.		
	e.	Serve as a camp counselor.		
6.	Com	plete one of the following:		
	a.	Do some decorative tree planting.		
	b•	Develop native trees, shrubs, or a flower plantation or arboretum.		
	С.	Near the end of fall, count the survival of forest tree seedlings planted the preceding winter.		



7. Study the interrelationship of climate, wildlife, aquatic life, soils, and forests on a piece of forest land with which you are familiar. Write a 500-word report on your concept of this interrelationship and the observations you have made in the forest.