

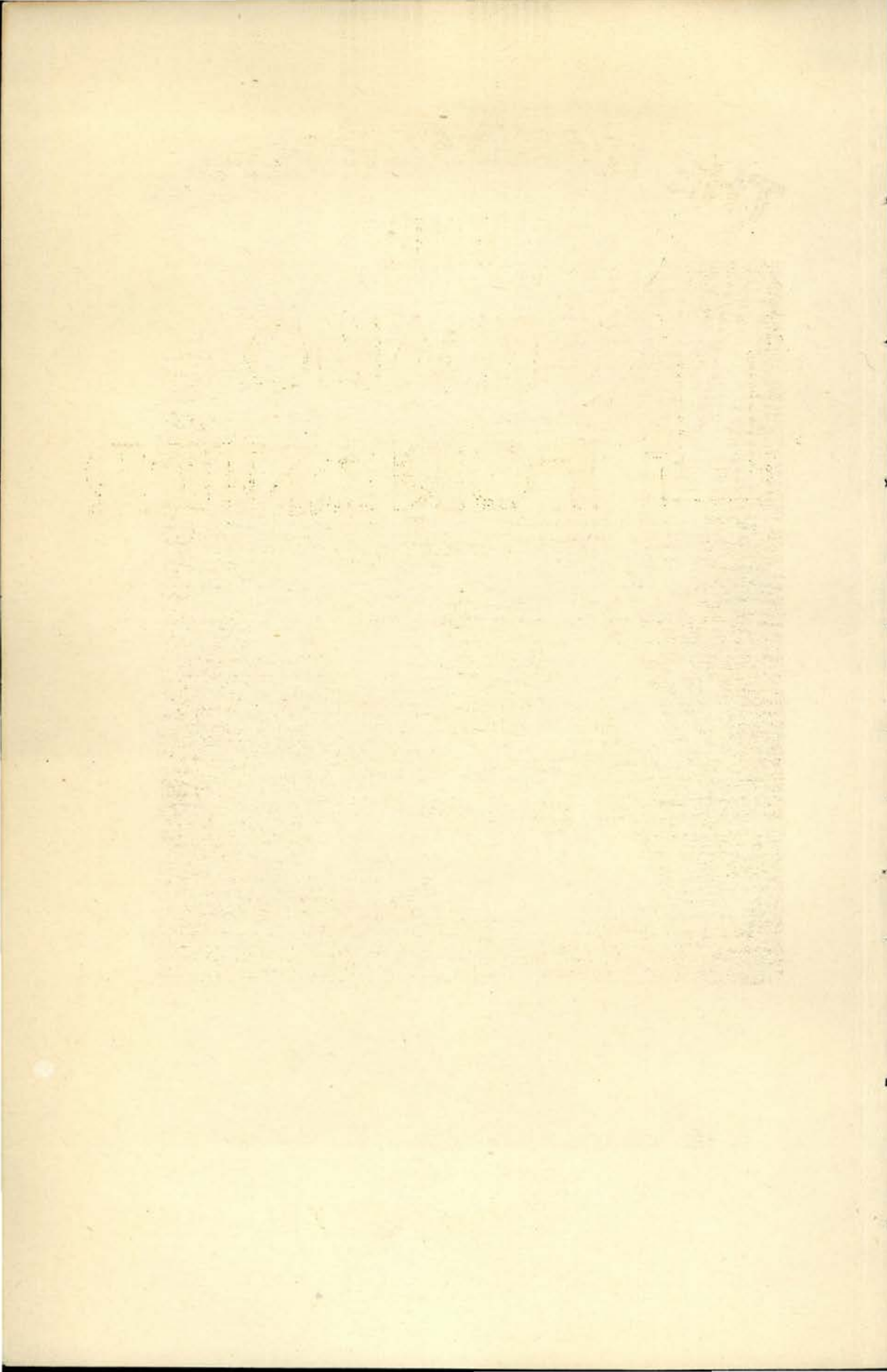
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THE
WVLS
IDAHO
FORESTER

Volume XXXIII - 1951

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THE IDAHO FORESTER



Sweet Earth

Published Annually

by

THE STUDENTS OF THE SCHOOL OF FORESTRY

University of Idaho

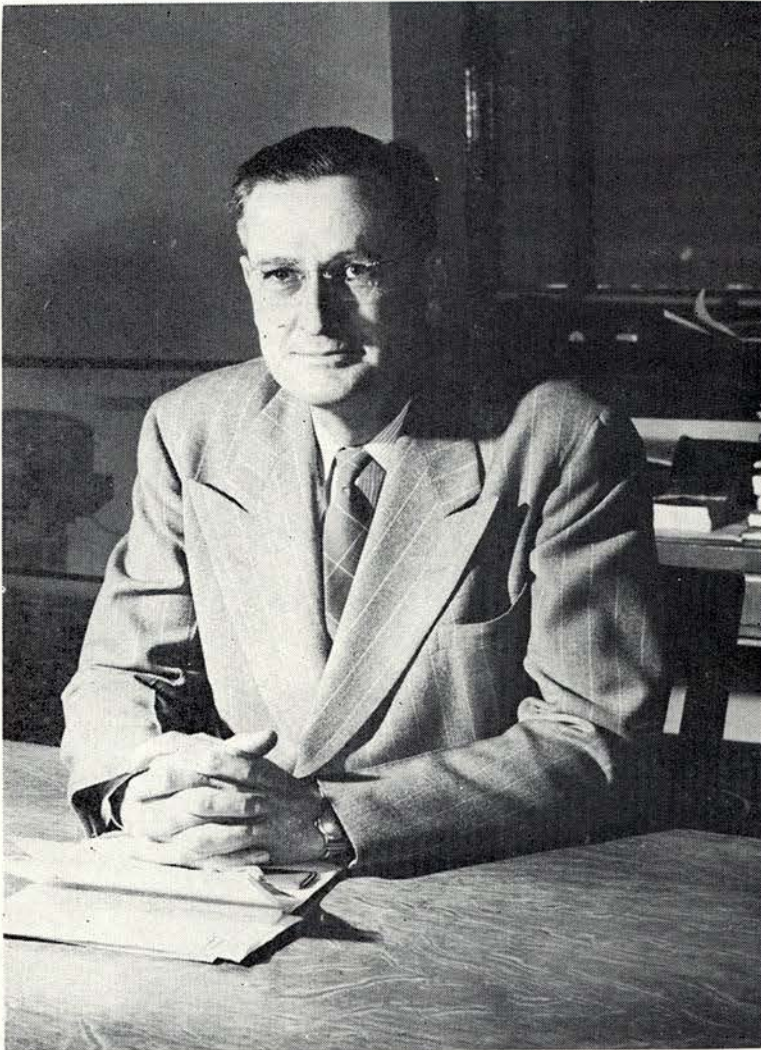
Moscow, Idaho

The staff of the IDAHO FORESTER has been proud of its ability to send a copy of the annual to each alum. A problem has arisen, however, which we feel should be appreciated by the alums, students, and faculty. The number of graduates of the school has increased to such a degree that it is now necessary to print over a thousand copies to meet the demand of both students and alums. At the same time the cost of printing has increased tremendously making the publication a very expensive venture.

It will be impossible for the IDAHO FORESTER to continue in future years unless it is placed on a subscription basis. Early in the fall semester of the 1951-52 school year a statement will be sent to all alums which will indicate the cost of the subscription and will provide the staff with an estimate of the number of copies needed. Alums who have contributed large sums in the past will not receive these statements.

This decision has been reached with much reluctance and only after very careful deliberation. We sincerely hope that this policy will meet with the approval of all the alums, and that they will continue to support the IDAHO FORESTER in future years.

Editor



Dedicated

to

President J. E. Buchanan

a man who inspires confidence, respect, and admiration, and who has given to the students a modern, progressive university.

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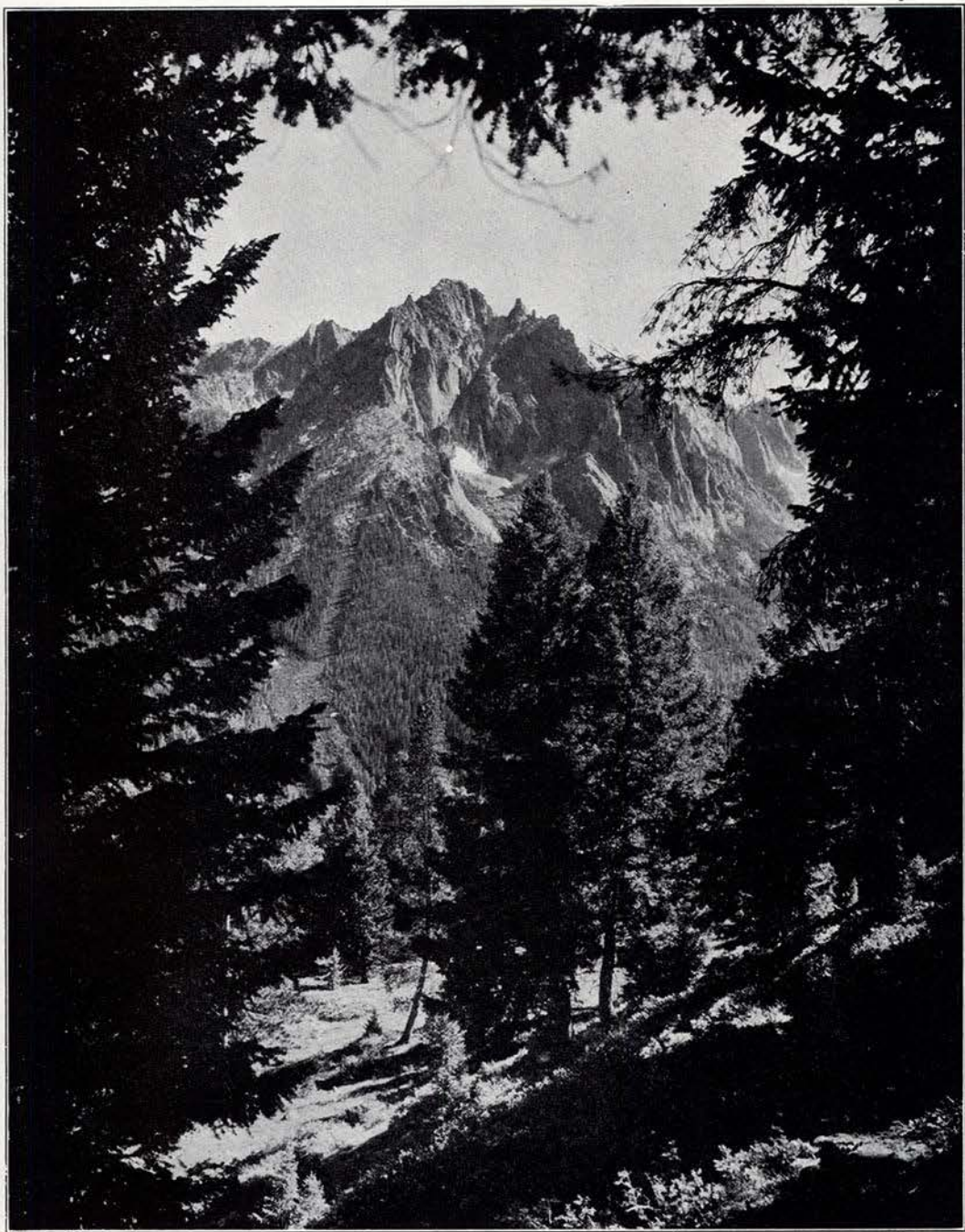
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School Activities



Idaho Forester Staff

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From the Dean's Desk

The year 1950 may be viewed by future historians as one of the crucial years in the history of the United States. The university experience of the class of 1951 included that year. The men have lived, then, during the first eighteen months of an already important decade in history.

Certainly there are plenty of uncertainties in the foreseeable future. All of us, whether undergraduates or alumni, must admit that our view of the decade 1950-60 is obscured by clouds of doubt, despair, and even desperation. These attitudes are found around the world and that fact adds much to our confusion. In the face of such an indefinite future then, it is of the utmost importance, in my judgment, that we recognize what I believe is the peculiar challenge for the forester in these times.

We are dealing with renewable resources on non-tillable lands. The condition and, therefore, the relative value of these renewable resources affects every person. In many instances the total econ-

omy of regions and even nations centers around, if it does not depend upon, the condition of these renewable resources. It is largely the business of foresters to protect and develop these resources. The events of a decade often revolutionary in a political and social sense, are felt for many generations. The events of nature's evolutions and revolutions may occupy ten to fifteen decades and the effects be felt for an even longer time.

Not in the least would I belittle the importance, often the very great importance, of the events of any year or two years. But I would emphasize that our plans and programs in forestry envisage the results of our efforts in terms of a century or more. The mistakes we make

this year of 1951 in our management of the resources on a unit of non-tillable land may affect many thousands of people in the decade 2050-60.

The mistakes in land management of the generations just preceding ours are evident in too many places. We believe we are able to point to the errors they made. Are we as sure that our plans for using the land and its resources are based upon data relatively free from error? We have been on the alert regarding the timber drain from the forested lands, the ravages of fire, insect, and disease, the prevalence of overgrazed range lands. Have we given too little attention, possibly, to the importance of watersheds as a natural resource? There is increasing evidence that we may have minimized their place in the scheme of things, although we have recognized that watersheds do have value.

Since the beginning of man's habitation on the earth, no doubt, his depend-

ence upon land and water have been absolute. We are witnesses to the increase of that dependence until now, in some spots of our nation, water is of the *FIRST* importance to millions of people. If water is scarce, the balance between people and watersheds has been upset.

Watersheds, because they involve the headwaters of streams, in very large measure, are the responsibility of foresters. Are we redeeming our responsibility?

In a lumber dealer's publication I read recently a short article on "Aspirations" (author unknown), from which the following is quoted: "We know that perfection is a goal that runs swiftly before us, but always evades us. While we struggle to grow, we live in imperfection. Our aspirations, though never attained, gauge and measure the quality of the soul more than all its mistakes and failures."

D. S. Jeffers

FACULTY



Left to right, front row: Lee A. Sharp, Vernon H. Burlison, Ernest Wohletz, Kenneth E. Hungerford, Everett L. Ellis. Back row: Thomas S. Buchanan, Merrill E. Deters, Dean D. S. Jeffers, Paul D. Dalke.

Staff Newcomers

A very welcome addition to our staff this year is Mr. Virgil S. Pratt, whose task here is the instruction of classes in the fishery courses recently introduced to our curricula, and the conduction of fishery research amid Idaho's lakes and streams.

Mr. Pratt received his B.S. degree in Wildlife Management from the University of Maine in 1941. Further studies at that institution, directed toward the attainment of his Master's Degree, were interrupted the following year when it was discovered that he possessed all the necessary qualifications of a good soldier, as was made evident by the postman's deliverance of Uncle Sam's "greetings." Virgil responded.

Upon his release from military duties three years later, Mr. Pratt resumed his research on the life history and factors limiting the abundance of Atlantic salmon in the Penobscot River of Maine, and received his Master's Degree in Zoology (Fishery Biology) in 1946. Accepting an appointment to the faculty at Maine, he devoted the next year to the teaching of fishery and wildlife courses.

Granted a full-time research fellowship sponsored by the Institution of Fisheries Research—a cooperative organization of the University of Michigan and the Michigan State Conservation Department—Virgil spent the next three years probing the trout streams of Michigan, and fulfilled all the requirements for his Ph.D. Degree with the exception of completing his thesis.

In addition to his classroom responsibilities here as Ass't Professor of Fishery Biology, Mr. Pratt is busy formulating plans for a study of several Idaho streams for the purpose of making population estimates. A creel census is also

planned, with the hopes of determining the success of artificial propagation and suitability of these streams for various trout species. Also on the agenda for future investigation is a study of the conditions and yearly changes in the fish populations of high altitude lakes.

After reviewing Mr. Pratt's background, we feel certain that Idaho's anglers, like Virgil's wife and three children (yes sir, two boys and one girl), can look forward to many interesting and informative fish stories in the near future.



Another newcomer to the staff this year is Edgar L. Williams, better known to all as Lonnie. Although new to the list of faculty members, Lonnie is by no means a stranger here; he received his B.S. Degree in Forest Management from the University of Idaho in 1950, and by that time had become known to all by his wholehearted participation in the activities of the Associated Foresters, in addition to his membership in Xi Sigma Pi.

Much of Lonnie's practical experience was in the field of cruising and marking timber for the State Tax Commission and the U. S. Forest Service, in addition to public relations work for the latter agency. Prior to his acceptance of the position of acting instructor, he was employed by the Dry Buck Lumber Co., at Orofino, Idaho.

Lonnie's pleasing personality, coupled with the initiative for which he is so well known, should make him a favorite with many future forestry students.

Graduate Students

EDWIN B. COSWELL, a graduate of the University of Massachusetts is just starting his graduate work and has not yet started on his project.

PHILLIP O. DICKINSON is a graduate of Oregon State although he comes from Chicago, Ill. He is just starting his work on deer, and is a holder of a Fellowship in the Research Unit.

JACK E. GILLETTE completed his undergraduate work at Purdue University. Jack held a teaching assistantship and was working on the relationship of white pine to growing space. The Army called him at the end of the first semester of this year as a Reserve Officer. He is now stationed at Fort Lewis.

ERNEST T. GROVER is a graduate of Idaho. Ernest is working on a summary of the laws of the state of Idaho regulating forestry.

ARLAND D. HOFSTRAND is the only man working in the field of utilization. His thesis deals with the effect of the growth angle on the shear strength of western larch. He hails from Snohomish, Wash., and is a graduate of Idaho.

HARRIS H. V. HORD of Richmond Hill, Ontario, Canada, graduated from McMaster University, Ontario. He was a part time instructor at Washington State College, supplementing his graduate work in Plant Pathology with courses at Idaho. He resigned the second semester of this year to take a position with the United Fruit Company in South America.

LEONARD W. HOSKINS is another graduate of Idaho. He is just starting his graduate work on deer management. He is a holder of a Fellowship in the Research Unit.

DAVID R. HOWARD of Harvey, Illinois is also a graduate of Idaho. He will probably write his thesis on the role of genetics in forestry improvement.

THOMAS H. LAURENT of Atlanta, Ga., has just started his graduate work and has not chosen the subject of his thesis as of yet.

CLAY Y. McCULLOCH did his undergraduate work at Colorado A. & M. He is just starting work on big game in general and elk in particular.

ROBERT McHUGH, a graduate of Johns Hopkins gave up working on Malaria Control for the T. V. A. to start work on the relationship of beaver and trout.

JOSE MOHAN of Lakeview, Ore., and a graduate of Idaho is picking up a few more general courses before starting in some phase of range management.

JAMES M. MOOMAW is a range management candidate for M. S. degree and a graduate of Carleton College in Northfield, Minn. He has worked on a range research for the North Dakota Agricultural College, and now is working on Research Project No. 16 dealing with the pelletization of grass seeds of range forage species.

JAMES W. PEAK of Dallas, Texas, has attended both the University of Texas and Southern Methodist University. He is just starting his graduate work but will probably work on the nutrition of white-tail deer.

WILLIAM L. PRINGLE of Kamloops, B. C., Canada, is a graduate of the University of British Columbia. This is his first year here and he will be working on goat weed for his M. S. Degree in Forestry.

WILLIAM A. SCRIBNER made an economic survey of the sawmill industry in Idaho for the U. S. Department of Agriculture and will probably use this material for his thesis.

DWIGHT R. SMITH is a graduate of Idaho. He has completed all his work on mountain sheep except for the final oral.

PAUL E. STEEL is a graduate of the University of Minnesota. He will carry on the work of Bizeau on waterfowl refuges.

JOSEPH C. VENISHNICK is a graduate of Idaho. At the present time he is taking course work and has not started work on his thesis.

LORIN J. WELKER, another graduate of Idaho, did graduate work the first semester of this year and is at the present time working with the Bureau of Land Management in Portland, Ore.

DAVID L. WILDER is a graduate of the University of Missouri. He has been an Assistant Ranger of the St. Joe National Forest and is now starting work on fisheries.

EDGAR L. WILLIAMS, a graduate of the University of Idaho, is taking course work before starting his work in some phase of Forest Management.

GEORGE ZAPPETTINI of Reno, Nev., is a graduate of the University of Nevada. This is his first year here and he is now working on the ecology of *Halegeton glomeratus* in the Raft River valley of Idaho.

KEEP

IDAHO

GREEN

Graduating Seniors



Robert W. Bates
South Stonington, Conn.
Range Management
"Coffee Time?"

Ralph L. Carmichael
San Diego, Calif.
Forest Management
"Better never than late!"



William J. Burchard
Fresno, Calif.
Range Management
"Mt. Baldy"



Elmor D. Clark
Moscow, Idaho
Range Management
*"Harold's Club's best
customer"*

Frederick T. Cook
Worcester, Mass.
Forest Management
"And here we have, Mass"



Dewey E. Clark
Boise, Idaho
Forest Management
"Whah happened"



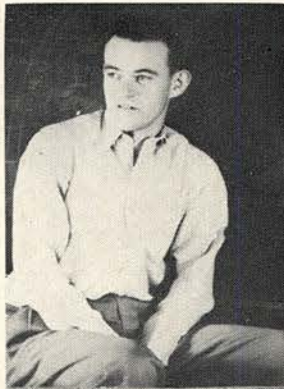
Graduating Seniors



Joseph C. Downing
Moscow, Idaho
Range Management
"Gay deceivers"



William Driver
Lewiston, Idaho
Forest Management
"Pandemonium"



Bruce E. Egger
McCall, Idaho
Forest Management
"Dr. Jeckel and Mr. Hyde"

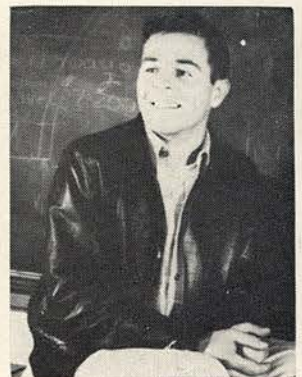


Frank J. Favor
Metaline Falls, Wash.
Forest Management
"Slim"

Donald L. Finney
Riverside, Calif.
Forest Management
"See Holton"



John C. Engwer
Sarona, Wisc.
Forest Management
"Say, have you got"



Graduating Seniors



Glen D. Fulcher
Nampa, Idaho
Range Management
"The milkman rings once"

Howard L. Gorsuch
Moscow, Idaho
Forest Management
"By God, howdy"



Henry W. Gilbertson
Hyattsville, Md.
Forest Management
"Rudolph Valentino"



John E. Hagsten
Jesse Lake, Minn.
Forest Management
"Fat (pleasingly plump)"



Arthur C. Hall
Kootenai, Idaho
Forest Management
"Dear John."



Robert V. Gorsuch
Kamiah, Idaho
Forest Management
*"Idaho over W. S. C.
10 points"*

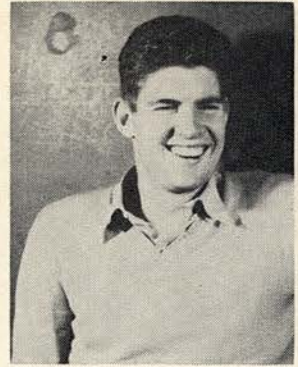


Graduating Seniors



Howard R. Heiner
Lewiston, Idaho
Forest Management
"Paul Bunyon, Jr."

Saul Benjamin Hershberg
Hartford, Connecticut
Forest Management
"Let's go get coffee"



John G. Harris
San Carlos, Calif.
Forest Management
"Southern California Chamber of Commerce"



Harold C. Hunter
Manchester, Calif.
Range Management
"Mr. Baseball"



Carl L. Holton
St. Louis, Mo.
Forest Management
"See Finney"



Burton W. Holt
Grangeville, Idaho
Forest Management
"The Little Flower?"



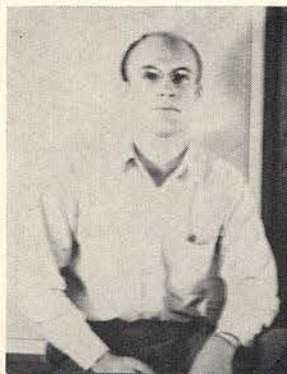
Graduating Seniors



Hugh H. Judd
Rupert, Idaho
Forest Management
"Mr. Blister Buster"



James J. Kelly
Chicago, Illinois
Range Management
"Sharpacae kellii (Kelly)"



James Hugh Kuechmann
Manitowoc, Wisc.
Forest Management
"The pipe"



Henry C. Land
Dellecker, Calif.
Forest Management
"The dynamo"



David S. Klehm
Moscow, Idaho
Forest Management
"Fire Chief??!"





Graduating Seniors



Robert O. McMahon
Spokane, Wash.
Forest Management
"Smokey Junior"

Claire E. Letson
Taylor, Wisc.
Range Management
"Abie"



James B. McGee
Moscow, Idaho
Range Management
"f 4.5 at 1/1000"

Conrad G. Merrick
Great Falls, Mont.
Forest Management
*"Smooth and easy
on the draw"*



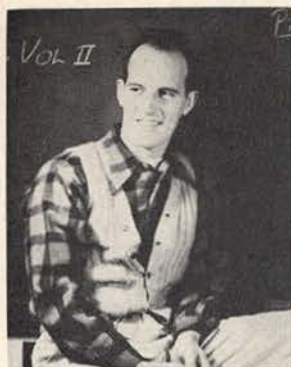
Raymond L. Miller
Elmhurst, Illinois
Forest Management
"It Ain't a big thing"



Leo J. Martin
Cedar Rapids, Iowa
Forest Management
"Question, Leo"



Graduating Seniors



Robert S. Nobis
Kimball, S. D.
Forest Management
"Yeah but . . ."

James G. Rogers
Castle Rock, Wash.
Forest Management
"No strain, no pain"



Jerry R. Rockwood
Iona, Idaho
Forest Science
"At a loss for words."



Dale S. Thacker
Paul, Idaho
Forest Management
". . . no, he's a cop."



Malcolm K. Stahl
Dayton, Ohio
Forest Management
"Not one to 'stahl'"



Robert W. Sonnichsen
Coeur d'Alene, Idaho
Forest Management
"I could have done it!"



Graduating Seniors



Harold E. Thomas
Moscow, Idaho
Forest Management
"Henry J- You bet!"

Charles R. Whitt
Boise, Idaho
Forest Management
"Piddle and Puddle"



Donald B. Tschantz
Mackay, Idaho
Range Management
"Silence is golden"



Duane B. Pyrah
Carey, Idaho
Range Management
"Rocky"

Claude E. Willows
Bashaw Alberta, Canada
Wood Utilization
"Mr. P. F. I."



Sydney E. Wray
Pocatello, Idaho
Forest Management
"Mr. Packard"





Summer Camp

By KEN KNOERR

What is unique about the University of Idaho Forestry School? Summer Camp you say? You're right! You start out as a freshman beginning to hear about what somebody has decided you'll be doing the summer between your Sophomore and Junior year. You hear rumors, stories, tales, most of them bad, some of them good, but of every color and flavor about this rugged eight weeks designed to weed out the men from the boys. Now that it's all over, for a few of us at least, let's look back in retrospect and see whether those pre-conceptions turned out to be true.

All during last spring there were signs of activity around the School of Forestry. The lucky ones who were going to camp were holding meetings to elect a camp manager, an executive board, and find someone to be their cook for the summer. In Ellis' office there was inventory-

ing, repairing, and packing of the equipment that was to be used at camp. Finally by the 7th day of June everything seemed to be done and the boys proceeded to the shores of Payette Lake in any way that they could find, and arrived there the same way that they left, in the rain. Fun was had by all in setting up wet tents, but as soon as the stoves were installed and a fire going everyone felt better and they were ready to start on the eight week's grind.

Instruction at camp started out with a bang through a short lecture by Prof. Ellis on the overall plan for camp including things to do and not to do. Somewhere in this briefing we were warned to be careful about setting our tents on fire from an overheated stove. Needless to say, a few days later a tent was on fire all right, but guess who's? Prof. Sargent and Russell's. Only through the

heroic efforts of some enterprising students was the fire extinguished and face saved for the faculty.

Our first week and a half was spent wallowing around the peninsula's swamps under the guidance of Professors Russell and Sargent, trying to learn to become forest surveyors. After we had driven pegs, flashed mirrors, leveled out the roads and generally got the whole area pegged down, we proceeded to use our new land grid system under the guidance of Prof. Wohletz to see if there was any timber in the area. We retraced our steps through the swamps, and over the hills, mensurating, mapping, and criss-crossing the area as we went. It was during this period that one famous compass man got lost from the rest of his crew. His famous last words were: "They were lost from me, I knew where I was, I had the compass."

The end of mensuration was celebrated by one of the biggest events at camp, the beer bust. Everyone relaxed and forgot the differences that had risen during the previous four weeks grind. The Profs got friendly and philosophical and there was plenty of beer to wet our whistle for all of the singing that went on. The highlight of the evening was the contest between Chuck Ohs and Pappy Seale to see who had the largest repertoire of risqué little songs. I don't know who won the contest that night, but I'm sure that everyone learned a few new ones. After the party everyone went their own way, some to sleep, others to continue in town what they had started on the peninsula. Charley Ohs was found standing in the middle of the dance floor of Payette Lakes Inn with his corked boots on, swaying from side to side, while Bob Johnson was trying to hold him up. Back at camp the usually quiet, and reserved Joe Basile invaded the privacy of the Fellin, Leavell and Blom tent with a demonstration of the Cossack dance, all the while letting it be known that: "sure glad I'm not a drinking man!"

Following mensuration we were guided through forest and range communities under the able leadership of Profs. Hun-

gerford and Tisdale. One outstanding lesson was gleaned from this course. Always be observant, down to counting the number of fences that you pass while you're bouncing over the mountain roads. Of course you were supposed to be sitting down inside the truck where you couldn't see the fences, but that didn't matter.

Logging and milling, besides giving Prof. Ellis a chance to give guided tours, through the various mills surrounding McCall, provided the boys with a new sport of log burling. First thing that occurred when we arrived on the mill site was a mad rush to the log pond, where everyone would proceed to show his skill. Most illustrious of the burlers was Warren Crabb. No one tried to drown himself as much as he did. Ah yes, we mustn't slight E. Del Mar Jaquish and his flying swan dive into the Halleck and Howard mill pond. Guess who was watching? One of his many girl friends.

Speaking of women, it seems that our summer camp was especially endowed with an assortment of lovers. It all started when the Ponderosa Camp grounds was visited one week end by a bevy of young ladies from Boise. The news spread like wild fire and the boys flocked in their direction like bees to honey. From that week end on, a few of the boys felt that courting the fair sex had more to offer than mensurating or counting grass. I'm sure that all of the fellows who had lovers for tent mates will long remember being awakened at all hours of the nights, upon the return of the cradle robbers.

Almost everyone at camp acquired a nickname or did something to make sure that he would be remembered. Al Heitman acquired the name "Doc" when one day he asked Ken Herman, who hadn't been feeling too well, if he had gotten tick shots. When Ken answered "No," Al promptly assured him that he had Rocky Mountain Spotted Fever and was on his way to his death bed, hence came the nickname. Jack Lorts became the fisherman of camp, the day that he and Chuck Swain went fishing. Jack came back with an 18 inch rainbow, "Nigger"

Swain when last seen, was still at the same hole trying to outdo him. Honors also go to Bob Van Kleck in the fishing department for his persistent efforts. They finally payed off one evening when the May flies swarmed and he pulled some beauties out of the Payette River. One fellow, "Red Eye Foucar" was famous for his bright eyed appearance every morning. Some one should have offered him some toothpicks to prop his eye lids open. Then there was one member of the executive board who really took his responsibility to heart. He felt that there should be no liquid refreshment in camp so he just went around and helped finish them off. Gads, what a capacity he had!

It was during forest and range communities that some of the boys began to feel the pressure of studying and became restless. One night Pappy Shero, Chuck Ohs, and Jack Lorts decided that it was about time everyone had a good bath. The natural place for this, of course, was Payette Lake, so they proceeded to descend upon the tents in force and drag their victims off for a ducking. They were, however, kind enough to let the boys take out their wallet and other valuables before becoming soaked. The first one to go in was Chuck Wood, soon followed by Prof. Ellis. He thought this was great fun so he stood on the bank and read baptismal rites over the rest of the fellows as each one hit the water.

The town of McCall shall not soon forget our camp crew. They shall remember our early morning serenades, especially those residents of Shore Lodge who received regularly their wake-up call. The Foresters Club shall also recall the many evenings that the Idaho boys helped to provide their place with a friendly atmosphere, with their quartets around the organ while enjoying a glass of good ole' Miller's High Life. A few of the residents looked upon us as a bunch of Indians, but many more were sorry to see us leave.

Thanks should be extended to "Red" Andrus and Mrs. Morris for providing us with the best chow that has ever been had at summer camp at the lowest prices.

In spite of the overloaded lines, fuses blowing, and a grill that didn't work, they always came through with a good meal. Not only did Mrs. Morris serve as our cook, but I'm sure that one or two fellows appreciated her motherly instincts when they had problems. Thanks again, Red and Mrs. Morris.

While we're thanking people, I'm sure that all of us owe Smokey Joe a little gratitude for providing us all with jobs. They may have been a little late, but the Congress of the United States had something to do with that. We at least give him credit for trying!!

Our last day of summer camp found all of us being dragged out of our beds at 4 A.M. to go on a fire. Many of us thought that it was some mean joke being played on us to leave us with fond memories of our professors, but we soon found out that the fire was real. Mrs. Morris had been up earlier and had a hot breakfast waiting for us before we left. About 5:30 found us on our way back into the country behind Little Payette Lake. It was about half an hour's walk from where we left the truck to the fire, which we found well under control by some of the forest service boys who had been on it all night. The trip would have been routine if it hadn't been for two of the fellows who thought that they knew the country better than the natives and got lost. They wandered around the woods by themselves and created more worry than that caused in controlling the fire. Most of us were back at camp by noon, but our two explorers were still wandering. Luckily they did remember that you should always follow down stream when you are lost, and thus did finally get back.

Now that camp is all over I'm sure all of us look back and see a silver lining shining through some of the dark days that may have overcast our feelings at times. Knowledge always comes the hard way! All of us, I know, are thankful for the opportunity to get to know well the rest of the fellows in our class. Thank you, Ernie, Ellis, Doc Tisdale, and Kenny Hungerford for giving us this opportunity and for putting up with us.

Associated Foresters

By BOB GORSUCH

A membership drive by the Associated Foresters launched their activities for the 1950-51 school year. With the drive in mind a few of the old members left their summer jobs and came back to school early. (When a college student says "returned early" he means that he made it in time for registration.) The large membership can be credited to those who worked during the registration; namely, Howard Heiner, Bob McMahon, and Frank Favor.

The Associated Foresters Club was founded for several reasons. Foremost among these reasons is that of promoting fellowship and good feeling among the students and faculty of the School of Forestry. This is accomplished through meetings, banquet, steak fry, square dances, and the annual Foresters' Ball. The club also attempts to foster the best interest of the forestry profession, to act in coordination with the University of Idaho, and to promote friendship with other forestry clubs.

The 1950-51 school year will be regarded as one of the most successful in the history of the Forestry Club. The cooperation of all the members is the factor that made the organization 'click.' Numerous activities were undertaken by the club. Perhaps the best example of a successful undertaking was the annual Foresters' Ball. Thanks to the efforts

of John Blom, the ballrooms at the Student Union shook (and I mean that literally) with the sound of people having a good time.

Financially the Foresters had trouble staying within their budget. The trouble can be attributed to the increased activities and inflated dollar. As the year comes to an end the treasurer, Dave Fellin, seems to have the situation under control. We all owe him a sincere thanks in his mysterious ability to stretch out the money purse.

The state-wide Forestry Week that is sponsored by the Associated Foresters has grown to be a major function. The chairman for the Forestry Week, Bob McMahon, has done an admirable job. Through his efforts the people of Idaho are more conscious of the forest situation and problems of their state.

Officers for the year were: President, Bob Gorsuch; Vice-president, Howard Heiner; Secretary, Joe Basile; Treasurer, Dave Fellin, and Ranger, Burt Holt. The class representatives were: Leo Martin and Frank Favor, Seniors; Howbert Bonnett and Fred Matzner, Juniors; Jim Wright and Keith Pardue, Sophomores; and Donald "Arizona" Vandevort and William "Scotty" Scotford, Freshmen. Faculty advisors were: Prof. Wohletz, Ellis, and Dean Jeffers.

Xi Sigma Pi

By GLEN D. FULCHER

Xi Sigma Pi, forestry honor fraternity, was founded at the University of Washington in 1908. It existed as a local honor society until 1915 when a new constitution was adopted which put the fraternity on a national basis. Since that time fifteen new chapters have been added. Epsilon Chapter here at the University of Idaho entered the fraternity in 1920 as the fifth chapter. The fraternity is now national in scope extending across the nation from Maine to California and from Washington to Florida.

Project "Gavel" is at long last just a memory. This year, after ten years from the starting date, the finishing touches were completed on the gavels and they are now in the hands of the participating chapters. One of the extra gavels was presented to the Idaho Associated Foresters. Numerous letters of appreciation for the gavels have been received from the various schools. Epsilon Chapter feels that the gavels were highly appreciated and were well worth the effort put forth by the members.

The present project of enlarging the

Xi Sigma Pi scholarship plaque is under the very capable direction of Dr. T. S. Buchanan. The plaque will be a walnut extension to the present bronze plaques and will be hung on the wall of the first floor of the Forestry building. The plaque will fill all requirements through the year 1999. If the Forestry Building is still standing at that time Xi Sigma Pi will probably have another plaque extension project.

This year the Epsilon Chapter had the pleasure of initiating its first honorary member. There are only six or seven honorary members in the nation, and we feel indeed honored to have Jim Evenden in our fraternity. Mr. Evenden has had an outstanding career in forestry and is now in charge of the Forest Insects Laboratory at Coeur d'Alene, Idaho.

The Xi Sigma Pi steak dinners and

initiations have, for the past few years, been informal gatherings held at the Flat Creek Experiment Station in the University Forest. This year the chapter voted to have the fall initiation at Flat Creek and the spring initiation as a banquet in the Student Union Building. This system worked very well for all concerned and will be continued in the future.

Officers for the 1950-51 year were. Forester, Glen Fulcher; Associate Forester, Claude Willows; Secretary-Fiscal Agent, Bob McMahon, and Ranger, Duane Pyrah. New members initiated were: Virgil Pratt, Dave Olson, Franklin Pitkin, Chris Hord, Bob McHugh, Jim Moomaw, Bud Holton, Dewey Clark, Ralph Carmichael, Howard Heiner, Dale Thacker, Kenneth Knoerr, Joseph Basile, Herbert Schroeder, Ben Jayne, Bill Leavell, George Zappettini, Clay McCulloch, Phil Dickinson, Jim Peak, Burton Holt, Donald Finney, and Carl McCrillis.

Steak Fry - 1950

By CHARLES OHS

The 1950 Associated Foresters' Steak Fry was one of the first events of the year sponsored by the club. The affair was again held at Big Meadow Creek out of Troy. A good Saturday was picked for us because the sun finally came out after a full week of Palouse style rain (the Moscow monsoon).

This year the chow was served before the contests began so no one would have to find his mouth in the dark. The menu included three or four big steaks for everyone attending, seconds and thirds on ice cream, and all the baked beans Hobbie Bonnett could shove on as you passed by.

After everyone had filled his tummy, the contests of the day began. The sawing contest was tried by many with the hardest work in this event being done by "Ernie" who sat on the log and held it down for all contestants. There were no major catastrophes during the pole climbing but a few played it pretty cool. Next came the tug-of-war across the murky waters of Big Meadow Creek. The rope held together in this ferocious

event. The juniors pulled the freshmen through, next the seniors cooled the sophs. Now it was to decide if the juniors or the seniors were the better men. Even though the juniors possessed the bulk of the lard for an anchor man, they were swiftly carried into the waters with the seniors being the winners of the day. In log burling, Heiner turned out to be champ while W. Crabb, chief diver, kept searching the bottom for sunken logs. Most of the participants needed their weekly bath anyway. Other contests held included the sack race and a marksmanship contest with tobacco juice as the projectile. (The latest development in unguided missiles.)

Those individuals gathering the most points and winning the prizes were: Howard Heiner, 1st place; Dale Thacker, 2nd, and Keith Pardue, 3rd.

A big hand goes to Bob Gorsuch and his committee for making the day a success. A good time was had by everyone present, and we surely hope we can see everyone and more back again at the 1951 Steak Fry.

Foresters' Ball



This year witnessed the return of the Foresters' Ball to the Student Union Building with the dance taking up all of the ballroom space. An estimated crowd of 400 including faculty, foresters and their friends were in high spirit up until the final note was played to testify to a "Good Time had by All."

Committees and plans were formed early in the fall. Agitation from some of the upper classmen for a big formal dance was brought to the committee's attention, but was promptly smothered by the majority. They, in turn voted for the usual Levi's and calico, and informed the committee also that the dance should be a *big* operation whereby the foresters might be more widely acclaimed on the campus.

Again following the final WSC-Idaho basketball battle, from which the Vandals emerged victorious, the dance got underway to the music of the Four Melody Men (the boys shot the moon to get these pros) from Spokane. Paul Bunyan was again the host, and life-sized characters from his numerous operations were stationed about the area. Plus Paul's crew, the decorations consisted of a display from each of the major curricula in the forestry school. Elements of sagebrush, laboratory ap-

paratus and wildlife were plainly exhibited.

The dance was highlighted by the square dancing held just before the intermission. It seemed that that was all that was necessary for the crowd to let their hair down. (Reports have it that all hair was torn down that didn't come down by itself.) After the session was over, many wandered about aimlessly in search of their original partners.

The intermission was devoted entirely to the gals this year. Jack Lorts "emceed" a hilarious "Roll-your-own" cigarette contest for them and humored the crowd.

Dean and Mrs. D. S. Jeffers, Prof. and Mrs. Pratt and Dr. and Mrs. E. W. Tisdale honored us informally in the well-established custom of Patrons and Patronesses.

The crew that broke trail for the *Big* affair did a notable job. Poster work was pushed by Chuck Ohs, who had as very able assistants Bob Oehmcke and Dave Parsons on the paint brushes. Ben Jayne and Duane Lloyd followed up on the publicity while Ken Foucer and Warren Crabb promoted ticket sales. Howbert Bonnett ably administered decorations to the good pleasure of all in attendance.

Idaho State Forestry Week - 1951

By BOB McMAHON

Forestry Week is an annual function sponsored by the Associated Foresters for the purpose of directing attention to forestry, one of the leading industries of the State of Idaho. This Week is state-wide in scope and is designed to help the people of the state in understanding and appreciating the aims and objectives of good forest practices.

This year particular emphasis was given to various problems of forestry and of the forest industries with the hope that as the people gain a better understanding of the nature of forestry, they will lend their support as well as their sympathy to the solving of these problems. A better understanding should thus become the basis for active cooperation in attempting to realize goals which will yield the highest returns in goods, services, and other benefits to the people from the forest resources of the state, while continuing to maintain the forests in their highest productive capacity.

The plans for this year's Forestry Week couldn't have been carried out so effectively and efficiently had it not been for the excellent cooperation of the Forestry Week Committee and assistants. Ken Knoerr handled the publicity, Claire Letson took charge of the high school talks, Hobbie Bonnet looked after the youth projects, and Jack Lorts made plans for the campus activities.

The program this year was similar to

last year's but with an added feature in the form of competitive projects in various fields of forestry for 4-H clubs, Boy Scouts, FFA groups, and any other interested boys or girls in the state. These projects have been designed to run throughout the year and will culminate during Forestry Week in 1952. Awards will be made to both individuals and groups showing the greatest amount of initiative and progress in carrying out the various projects in the divisions of the contest.

The annual Foresters' Banquet provided a climax to the Week, being held Friday night, April 20, in the Student Union ballroom. Guest speaker for the evening was Dr. Reed Bailey, Director of the Intermountain Forest and Range Experiment Station at Ogden, Utah.

Saturday, April 21, the last day of the Week, had been declared All University Day for visiting high school seniors. Participation by the School of Forestry was included in Forestry Week plans, and a day of activities was scheduled for those seniors interested in finding out something about forestry and what the School has to offer.

A sincere expression of thanks is due to Mr. Vernon Burlison and Mr. Lonnie Williams, faculty advisors for this year's Forestry Week. Both contributed materially in making plans and preparations, and the Committee is grateful for their assistance.

The Faculty and Research

By JOE BASILE

Although our faculty members have experienced very little change in their academic schedules during the past year, they have, along with our full-time research workers, given tremendous impetus to the recently reactivated Forest, Wildlife, and Range Experiment Station. Under the guidance of Dean Dwight S.

Jeffers, Director, and Professor Ernest Wohletz, Associate Director, these staff members have already brought the Experiment Station widespread recognition through past achievements, such as the cold-soak method of preserving farm timbers, and the efforts expended towards the fighting of pole blight disease.

The preservation of farm timbers is currently undergoing further investigation by Dr. Ernest E. Hubert, research pathologist. Several species of wood are being tested with the hopes that some heretofore commercially unimportant forest species may be found useful in farm operations. Doctor Hubert is carrying this program one step further through the study of fire retardants on several Idaho species.

The pole blight study is being continued this year under the leadership of Dr. Thomas S. Buchanan, Associate Professor of Forest Pathology. Working with Doctor Buchanan are Doctor Hubert, Dr. William K. Ferrell, assistant forest soils specialist, and research fellow Fred D. Johnson. Three publications have been released to date, one of which is serving as a guide to field workers.

A new line of attack has recently been initiated through the application of radioactive isotopes to the studies of absorption and translocation in an effort to determine the relationship of pole blight to forest soils of the white pine type. This new method of approach has been made possible through the generous financial and material assistance of the Atomic Energy Commission and other government agencies, and marks the first time that trees of 70 and 80 feet have been studied with the use of radioisotopes.

Another pathological problem under surveillance is that of blister rust. Mr. Albert W. Slipp, Assistant Professor of Forestry, has been doing extensive research work on canker growth development and has recently published the results of his work to date. Another publication dealing with the canker threat is now in preparation. The acquisition by the Experiment Station of an I.B.M. sorting machine has greatly facilitated the arrangement of data pertinent to this and other projects.

Dr. Merrill E. Deters, Professor of Forestry, has been busy making survey and management plans for the University's experimental forest, which has served as the laboratory for several research problems to date. Here a study

is being made of the methods of germinating seeds of species valuable to wildlife and erosion control, and plans are being made for determining the influence of nitrogen fertilizers on the forest conditions in the white pine type.

Dean Jeffers is serving as project leader for research on the problem of slash disposal; assisting the Dean are Doctors Hubert and Ferrell, and Mr. David Olson. Permanent study plots have been established to study the rates of decay of slash and the effects of slash fires upon forest soils. Although the project is a relatively new one, much valuable information has been uncovered to date, and a paper is now being written for submittance to the Journal of Forestry.

Several interesting studies are being made by the Range Management Department, headed by Dr. E. W. Tisdale, Associate Professor of Forestry. Notable among these is a study of the ecology and control of halogeton (*Halogeton glomeratus*), goat-weed (*Hypericum perforatum*), and other range weeds. A report on the halogeton problem was made at a recent meeting of the Northwest Scientific Association, and a paper on the subject was recently published in cooperation with the University's Agricultural Experiment Station.

Also under investigation is the feasibility of range improvement by reseeding and fertilizing with pelletized seed. The findings of the first phases of this project are currently being prepared for publication as a joint undertaking of our organization and the Bureau of Land Management. Our newest project in this department is a study of sagebrush types, with reference to the ecology and grazing value of the land. Assisting Dr. Tisdale with these projects are Mr. Lee A. Sharp, instructor, and graduate students George Zappettini and James Moomaw.

The Idaho Cooperative Wildlife Research Unit, under the guidance of Dr. Paul Dalke, Professor of Wildlife Management, has shown tremendous activity during the past year. In addition to the various studies under investigation by graduate students, five specific research projects are being conducted by

the wildlife staff. While Doctor Dalke is delving into the factors effecting waterfowl production at Grey's Lake, and investigating the life history and ecology of blue grouse in the Northern Rocky Mountains, Professor Kenneth Hungerford is studying the ecology and management of ruffed grouse on cut-over white pine lands in northern Idaho. Mr. Hungerford is using the experimental forest as his field laboratory for the project.

Distributional studies of the birds of Idaho are being conducted by Professor Thomas Burleigh, in addition to his research on mourning dove management. As a result of Mr. Burleigh's work, more than 125 study skins of Idaho birds have been prepared and are available for student use.

A recent shift in emphasis from the chemical to the physical phases of wood utilization has resulted in a brief period

of inactivity in that field due to a lack of facilities. Although much of this physical work is still in the planning stage, one graduate student has been able to complete his thesis on the use of adhesives under the direction of Professor Everett L. Ellis.

Operating expenses for the projects listed above are met largely through the allocation of funds by the State Legislature and the University. Also cooperating with the Forest, Wildlife, and Range Experiment Station are many federal, state, and private organizations, without whose help it would not have been possible to realize the progress made to date. We here at Idaho feel confident that this spirit of cooperation shall result in even greater gains in the future, and shall provide the answers to many of the baffling problems now confronting those individuals working with the various land and animal resources of the west.

Visiting Alumni 1950-1951

1. CLARK R. NOBLE '50
Clark has been residing in Moscow where he was the Latah County P.M.A. office manager. He has now moved to Burley where he will work with the B.L.M.
2. EDWARD D. SAVARIA '50
Ed came back for a visit late in November saying he enjoyed his present job as an alternate ranger on the Sawtooth Nat'l Forest.
3. ELLSWORTH R. BROWN '48
Reed has been spending the majority of his time trying to solve wildlife problems for the State Game Commission of Washington.
4. JOHN G. TKACH '50
John is keeping busy living up to the duties of his ten-month appointment with the Boise Nat'l Forest
5. GEORGE M. JEMISON '30
Doc Jemison is currently the director of the Northern Rocky Mt. Forest and Range Experiment Station. He made the trip down to Moscow at Homecoming and attended the meeting of the Society of American Foresters.
6. DONALD P. GRAHAM '48
Don was down to Moscow in connection with a pole blight conference. He is presently with the Division of Forest Pathology at Spokane.
7. CHARLES GALUSHA '49
Chuck has a new job at the pulp mill in Lewiston and his official position is assistant bleach operator.
8. CARL A. GUSTAFSON '27
The top man at fire control for the U.S.F.S., in Washington, D. C., paid a visit to his alma mater on Aug. 21.
9. JACKSON W. SPACE '27
Space and his wife dropped in at the dean's office on October 19.
10. WILLIAM G. GUERNSEY '29
The supervisor at Libby, Montana, came over for the Homecoming festivities and the meeting of the Society of American Foresters.
11. HUME C. FRAYER '29
Hume lead a 34 man group of foresters from eleven Marshall Plan countries to the campus last September. Eventually the trip was to cover the entire U.S. and Africa.

12. CHARLES POULTON '39
Chuck was on his summer vacation when he stopped by Moscow. He's in charge of Range Management at Oregon State College.
13. WILLIAM J. MORROW '39
Portable sawmill and consultant work seem to keep Bill busy these days. He had enough time to stop at Moscow on his way through however.
14. DON HAZELBAKER '49
Don is working out of Coeur d'Alene for the Northwest Timber Co., so he has chances to visit us here often.
15. ROGER L. GUERNSEY '47
Roger and Grant Potter ('48) drop in and confer with the staff whenever their duties with the Idaho State Forestry organization bring them to the Moscow area.
16. THANE J. JOHNSON '50
Thane stopped at Moscow after having returned from the army camp where he completed his requirements for a 2nd Lieutenant's commission in the active reserves. At that time he expected his call before too long.
17. GEORGE E. LEE '50
Evidently the service with the local law enforcement agency must have been right up George's alley. The F.B.I. made him such a good offer he couldn't turn it down and is now in training with them. His family will remain here for now.
18. JOHN O. LYGSTAD '47
John and his wife-to-be made the Homecoming trip from St. Maries. In the future they'll probably pay us more visits as John is being transferred to Princeton where he'll be alternate ranger.
19. MOSCOW REUNION
Rudy Goldblon's ('39) home was the scene and the 1950 Homecoming was the reason for the return and reunion of the families of Lyle Kauffman, Herb Angell and Gil Doll of '38 and Art Petersen and Otto Baltuth of '39. In total there were 18 persons of the six families present with Bob Johnson ('37) and family of the same crowd being unable to make the trip.



Idaho Alumni Luncheon Group at corner of Mayflower Hotel, Washington, D. C., December 15, 1950.

Front row (left to right): Chas. M. Genaux, '29; Dr. Vernon A. Young, '37-'46 (faculty); J. P. Brown, '37; Jack B. Dodd, '32; John W. Bohning, '48.

Standing row (left to right): Edwin C. Jahn, '30-'38 (faculty); Chas. A. Connaughton, '28; Floyd Cossitt, '24; John P. Krier, '47; Royale K. Pierson, '43 M.S.; Warren R. Randall, '43; R. E. McArdle, '34-'35 (faculty); D. S. Jeffers, '35 to date (faculty); Wm. T. Krummes, '30; A. M. Sowder, '25 (and faculty); Galen Pike, '27; J. Hugo Kraemer, '34.

Present at meeting but not available for picture: Fred Hampff, Dr. James W. Girard, Carl Gustafson, Dr. Wm. D. Ted Miller, C. Edward Behre.

B. S. Forestry or *Vica Versa??*

By HOWBERT BONNETT

With the idea in mind of starting a new feature in the "Idaho Forester" the staff decided to ask some of the Alumni for their opinions on the School of Forestry now that they are employed as professional foresters.

Those alumni who were picked at random didn't feel that they were qualified authorities on forestry education, but were willing to submit their ideas for what ever worth they might be. So with this in mind the following excerpts from their letters are presented.

One of our most envied alumni begins his somewhat lengthy scribe by saying, "The curriculum is adequate since one should be well versed in all phases of forestry." From another grad we have, "Any suggestions I would have regarding the curricula would entail a five year course, which might not be practical. The curriculum as it stands has served me well. I seldom know, from one day to the next, what particular subject I may be called on to form an opinion. The technical training is all right, however we only work eight or nine hours a day and in our associations, aside from actual work, it is necessary to be a little more familiar with the 'arts' side of a college education than I am." From a third ex-student comes these opinions, "The time has come when the school should emphasize practical forestry training and discourage the idea (prevailing when I attended) that the primary objective should be preparation to pass the JF examination. The curriculum could do much more toward preparing a student for a job if several of the technical studies were eliminated or shortened and the time devoted to training of a more vocational nature."

There seems to be at least general agreement among the alumni on the courses needed. One graduate sums up

the general feeling with this statement, "The answers you get here will vary to reflect adaptability to particular jobs held by the alumni." He also stated that in his own case, "Dendrology, Wood Tech, Pathology, Mensuration, Engineering Drawing, Math and English, were the most useful. Less useful, or at least leaving less impression for the time spent were Zoology, Botany, Silviculture, Entomology, and Soils." Pointing out the difference which results from the job held, another alumnus wrote, "More field work in Pathology and Entomology would have benefited me." This same author felt that "No one course can be designated to be the most or least valuable course. All are important to a balanced education."

Changing from courses to the much cussed and discussed subject of instructors, we have the impressions of those who as professional foresters should know their qualities. One grad said (and we quote), "The instructors are very good, capable and conscientious." From another source comes, "Much of the instruction is poor. However, this deficiency is attributable to instructing methods rather than the instructors. In the forestry school itself, a majority of the instructors should be classed as good."

Next we come to that 8-week period between the sophomore and junior years, Forestry Summer Camp. This is a subject that brought forth a varied set of comments. "I can't imagine how any more activities could be included in the few short weeks that you are there," states one alum. Another sheepskin owner says, "An ideal way to spend a summer. However, it is my belief that the summer's field experience gained in lieu of a summer's field encampment

would augment the practical education and the student would gain thereby. There is also the monetary issue which is ever important."

The last part of this article has more-or-less drifted away from the original subject, but these are suggestions from practicing foresters, suggestions to which we, as undergraduates, should pay attention. Another of the Dean's letter recipients suggested, "Learn how to work. My biggest criticism of graduates that I have seen is that they lack hustle and aren't adept at the art of manual labor. One's goal should ever be accomplishment—production." Another alumnus advises, "It isn't the institution, but the individual. After all, an education is merely a means of learning

how to learn. A certain amount of aptitude for forestry work is essential along with the technical training given by colleges and universities. Besides the aptitude and technical education, you have to sell yourself. There is no better way to do this than by displaying initiative, being industrious, dependable, and cooperative. Learn to give and take with a smile under any conditions. Practical experience is one of the most valuable assets a prospective forester can have. Get all you can."

These have been comments, we have presented from a few of the alumni for whatever they may be worth. We hope that more of you alumni will respond with letters, giving your opinions on the items mentioned in this article.

Some Aspects of *Halogeton glomeratus*, a Poisonous Range Weed

By GEORGE ZAPPETTINI, Research Fellow, Range Management

Many desert range lands have had their native plant cover greatly reduced and in many cases have been denuded thru the effects of overgrazing, drought, fire, and insect damage. As a result of the action of these factors many plant communities have been thrown into a retrogressive stage of succession. This depletion has made room in the same plant communities for various introduced weedy invaders. One of the most serious of these invaders is a poisonous range weed known botanically as *Halogeton glomeratus*.

The seriousness of this weed was brought to the attention of the University of Idaho authorities and resulted in initiation of a Special Research Project commencing in April 1950. This project was set up as a cooperative study between the School of Forestry and the College of Agriculture. Project personnel are Dr. E. W. Tisdale and the author from Forestry; and Lambert Erickson and Howard Morton from the Agronomy Department. It is the purpose of this project to make a complete study of the growth habits, the ecologic-

al, and geographical distribution of *Halogeton*, and to ascertain the best means of control through the use of herbicides, artificial revegetation, and proper range management. These studies are now in progress and are likely to continue for several years.

Halogeton glomeratus is native to the semi-desert regions of Central Asia. This plant is one of 26 known species of the genus, but it is the only one known to occur in the United States. Very little is known about the species and the available literature does not mention toxic properties.

The plant was first found within the United States in 1935 near Wells, Nev. The means and exact date of introduction is not known. Since discovery and for lack of a better common name, the plant has been known simply as halogeton.

During the past 15 years halogeton has invaded new areas with amazing rapidity, being found at the present time over most of Nevada, parts of southern Idaho, southeastern Oregon, and in Utah, Wyoming, and Montana. The re-

cent history of the plant has been one of rapid spread and increase with an accompanying loss of livestock wherever it occurs.

For several years prior to 1942 sudden and severe sheep losses occurred in Elko county, Nevada. In the fall of 1945 the cause was found to be halogeton poisoning. Feeding tests conducted by the Nevada Agricultural Experiment Station determined that but 1½ lbs. of dry plant material were sufficient to kill a grown sheep. In the fall of 1945 severe losses were incurred in southern Idaho, one of the largest being experienced near Almo, Idaho when 1620 head of sheep were killed in three days. Although cattle losses have been in the minority they have been reported, demonstrating that the plant is dangerous to both types of livestock. It is also significant that losses have been reported only during the interval from the months of November to April. A satisfactory explanation for this fact has not yet been determined.

Halogeton is a succulent annual, commencing growth in the late spring. The clustered alternate flowers appear around July 1, seed is formed soon after and reaches maturity during the latter part of September to the first part of October. At this time the seed is borne in dense clusters or glomerules of five winged bracts. Halogeton is a polygamous plant and apparently produces two forms of seed, one black and the other light brown in color. Whether both forms are viable is as yet uncertain; so far germination has been secured only from the black form. Tests recently conducted show this seed to be highly viable, giving 99% germination in 12 days or less.

Height and appearance of plant varies with site and soil conditions. Under favorable moisture conditions plants reach a height of 18-24 inches, on drier sites they may only grow to 3 inches, yet will produce considerable seed per plant. The weed is a true xerophyte and well adapted to arid conditions. During the month of August when the desert

is dry and most native vegetation is dormant, halogeton is green, succulent, and thriving. The extensive stands give the appearance of green wheatfields. One feature permitting this successful xeric growth is the tremendous root system which in a mature plant is at least three feet deep with a lateral spread as great.

Being a late spring grower halogeton will develop on areas which have already produced one crop of some other weeds. Such conditions were observed on areas supporting peppergrass (*Lepidium perfoliatum*) an early spring annual. A full stand of halogeton appeared on the area after the peppergrass had completed its life cycle and died. This halogeton never grew more than 3 inches in height but yet seed was produced.

So far halogeton has not been a menace on areas having a good perennial cover, be it native or some reseeded species. The main infestations are in the desert shrub types of shadscale (*Atriplex confertifolia*) and sagebrush (*Artemisia tridentata*). Within these types the weed does not present a serious problem as long as the native vegetation is intact. Halogeton can be classified as a plant of waste places, or disturbed areas; favorite growing sites being along trails, roads, and highways. Spreading in this manner by wind, vehicles, and in animal hair or wool the plant finally reaches an area where the native plant cover has been reduced, where it rapidly invades and becomes abundant in a relatively short time.

The weed is adapted to a variety of soils and will grow well even in roadside gravel. Observations to date do not show that soil type is a limiting factor to growth and presence. The highest elevation of known occurrence is approximately 6,000 feet, most plants being found at 4,400 to 5,600 feet. Elevation limits are as yet unknown.

Complete control as such may never be accomplished, since the plant is so widespread over a huge area. The problem, however, is not beyond a satisfactory solution. Past range research has provided sufficient reliable informa-

tion to use as a guide in such problems. Such a program envisions a long time undertaking using a combination of proper range management, reseeding of depleted areas with adapted species which will provide competition for the weed, and the use of herbicides to check further spread.

Recent observations have shown that halogeton is a poor competitor and that a good stand of crested wheatgrass will keep the weed from invading. The specific reaction of crested wheatgrass when seeded into an established stand of halogeton has not as yet been studied sufficiently to warrant definite conclusions. This grass has competed successfully with many other weeds, including Russian-thistle, a near relative of halogeton. Areas of the sagebrush type can be reseeded with crested wheatgrass and other adapted wheatgrasses, this of course in areas where native vegetation has been depleted and is no longer capable of providing natural competition.

Crested wheatgrass and other grasses are not too well adapted to many areas where halogeton is prevalent such as the saltbush and similar vegetative types. This is due both to climatic and soil conditions which determine the natural sparseness of grasses on such areas. Where grasses are not adapted, species of good forage plants such as winterfat (*Eurotia lanata*), saltsage (*Atriplex nuttalli*), and grey molly (*Kochia vestita*) which grow naturally on these areas, will have to receive more consideration than in the past. So, the problem also involves the finding of proper species to seed in areas requiring such treatment.

Herbicides such as compounds of 2-4-D and 2-4-5-T have been tested and found to be effective against halogeton. The spraying of large areas is at present economically prohibitive, but yet herbicides can be used at not too great an expense to combat spot infestations which occur outside of the main infestations. They can also be used to spray roadsides leading from these areas. Further

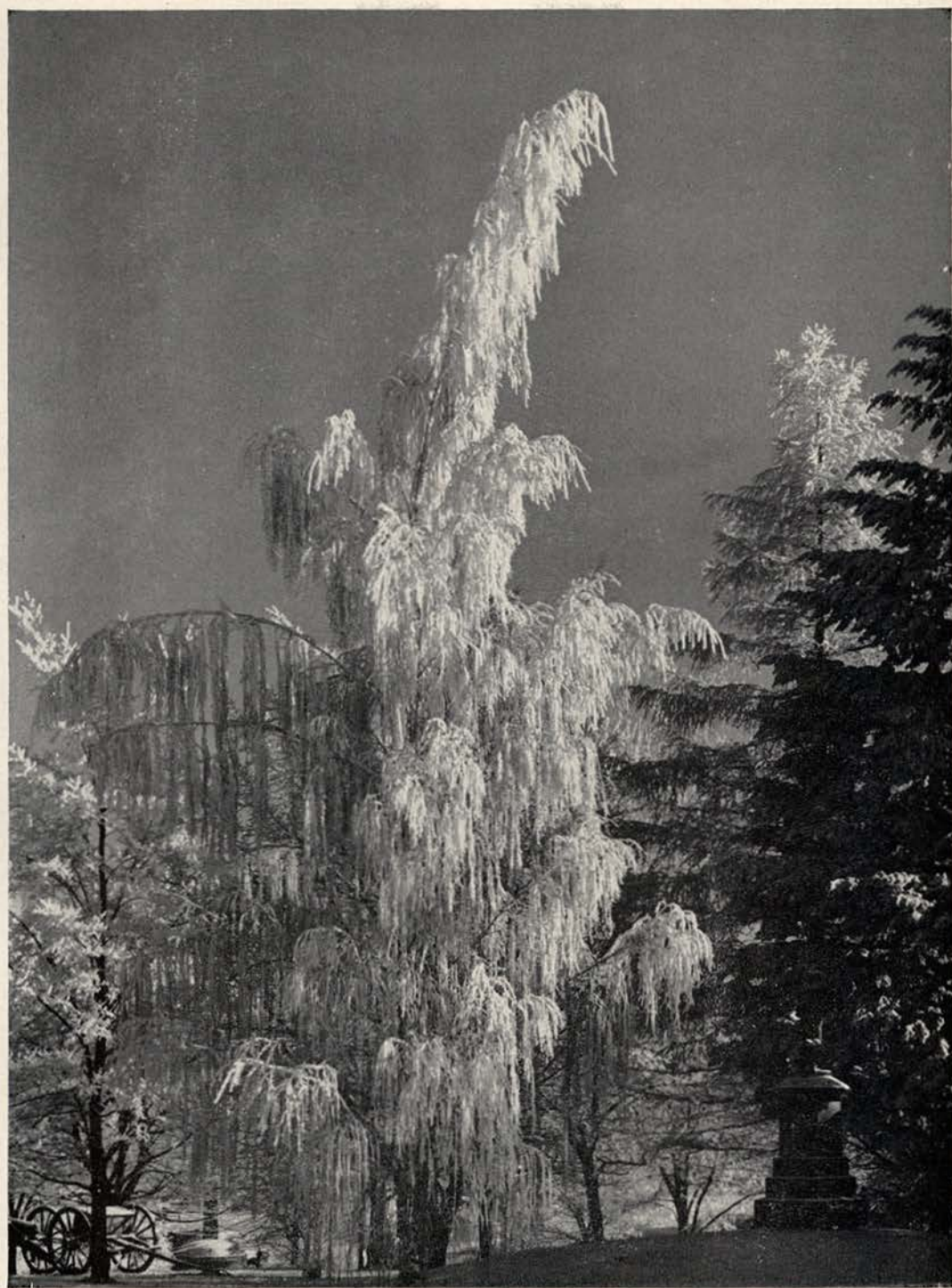
spread of the weed thus can be checked to a great extent.

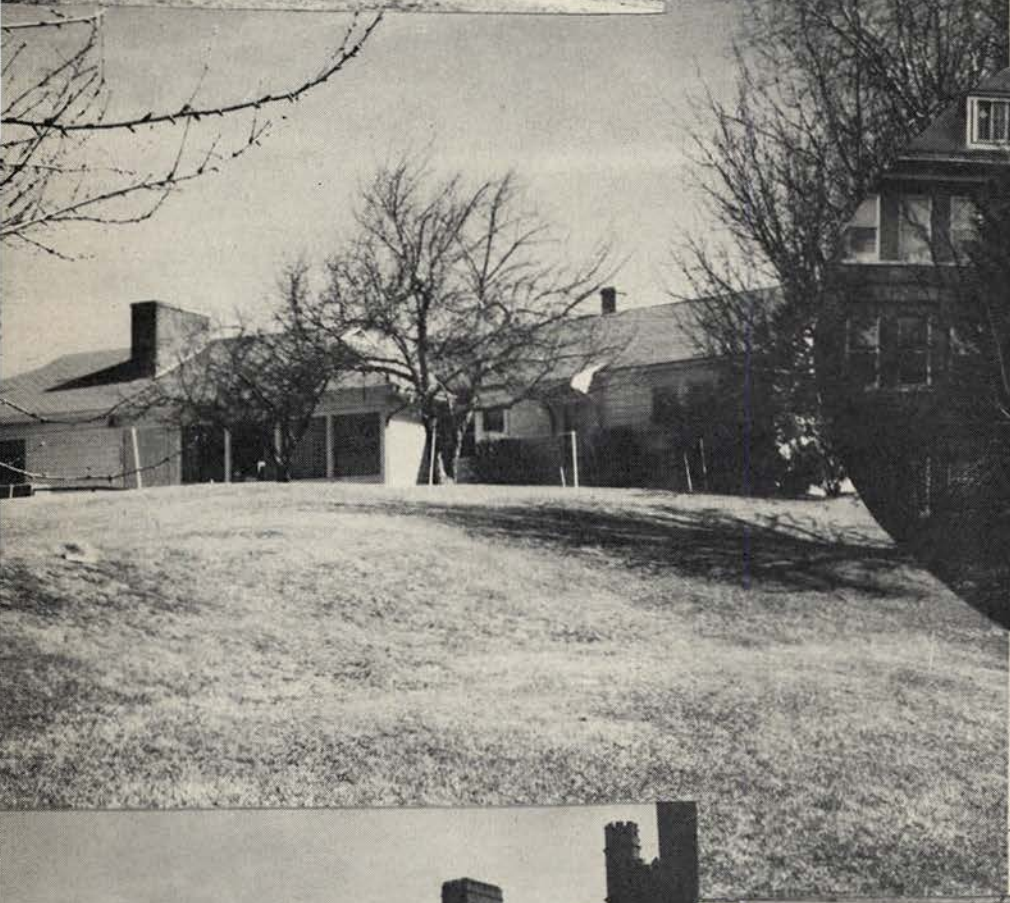
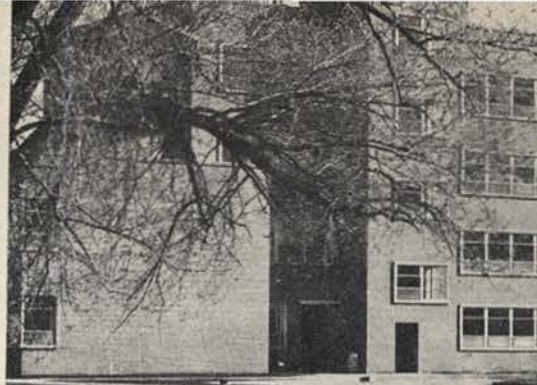
The most economical and effective means of minimizing and also of preventing future losses is the proper management of range lands both where the weed now occurs and in areas to which it may spread. In other words, protect range land so native vegetation will have a chance to regain vigor and reproduce, thus providing natural competition against the weed. Halogeton has forced the curtailment of grazing on many areas. Observations on these areas show that where sufficient native vegetation was left to reproduce itself, an upward trend in range condition is evident in a period of four years.

There are many limiting factors in man's use of range land, some of these beyond human control. The numbers of domestic livestock, the season of grazing, the type of livestock, and the distribution of livestock, however, can be controlled so as to secure greater sustained yield of forage, and insure against the presence of undesirable plants in great numbers. In the halogeton problem we are working against a great backlog of overgrazing made worse by adverse climatic conditions, fire, erosion, and insect damage. The way for invasion by halogeton was paved many years ago, and the extreme pressure has just been felt the past few years. We cannot place the blame on present day users of range lands for something which was started before their time, nor should we give up and try to endure the weed.

There is still more research work necessary before much can be done on halogeton control. This will be carried through and the results will be presented to range land users in a practical and usable manner. When these results are applied by all range land users, progress on this weed problem will proceed at the maximum possible rate and contribute materially to the stabilization of a great and important resource.

Feature Articles







Upper left — Student Union Building
Upper center — Agriculture Science Building
Upper right — Kirtley engineering laboratory
Center left — A.S.U.I. Golf club house
Center -- Forestry Building
Center right — Music building
Lower left — Administration building annex
Lower center — Engineering building

FIFTY EUROPEANS

By HUME C. FRAYER, '33, Assistant Supervisor
Monongahela National Forest, West Virginia

Fifty Europeans pursuing democracy in the United States is a lot of acquaintance for one American, their trip leader. A rare experience as termed by friendly acclaim.

It began with the first of three trips and concluded some 23,000 miles later, all in a period of five months. Travel reached into 47 states, by land, sea, and air.

They came as foresters and industrialists in the majority, as delegates from eleven Marshall Plan countries. Their purpose was to study American "know-how" and return with knowledge that would help increase productivity at home. In the States they traveled under the technical assistance program of the Economic Cooperative Administration. The place of the leader was to help make their way easier.

Each trip was noteworthy to forestry in the States. The first was a mission of tree breeders studying our American cottonwood, its habitat, utilization, and hybridization. I learned the species had been imported by Europe as early as 1700, and in its crossing with European black poplars had since been established as an important parent. The second was a group from forest industries engaged in studying American production techniques in logging, and manufacture of lumber, veneers, and other products, as well as in studying marketing methods the American way. The third was a group of foresters from Africa, and Indo-China, who were in charge of the territorial forestry programs of England, France and Belgium. There, I came to know that American pines are imported and grow extensively for the same purposes as in America. There, too, land abuse and management problems were understood to be much the same as we know them here.

Their study way was made by both government and industry. Research in the fields of interest to the men was viewed as accomplishing in the United

States in a comparatively short time what Europe has come to know in centuries. The industrialists, too, observed new woods and plant equipment, studied management and labor relations, and his colleagues the business end of marketing. All this took the visitors to innumerable study locations, arranged by government bureaus, trade associations, and plant managers.

In their official welcome in Washington it was urged strongly that they take the opportunity to become acquainted with Americans. From departure to return the opportunity was presented, for hundreds took part, and evidenced friendly interest in the men. The visitors were invited into American homes, they visited schools, progressive communities, and took in rodeos as well as the American games of baseball and football. Understanding of the latter was not without some confusion, but with early approbation of the community support, the colorful school bands, and attractive girl cheerleaders. One English forester thereupon vouchsafed his school had something yet to learn, even though this was its thousandth year.

Travel in the States created many impressions, hardly to be touched on herein. Perhaps it was a touch of homesickness that drew comparison of the country-side of the moment to some spot in Europe, from Norway to Italy, and even in far-away Tanganyika. Remarkably enough there was found to be a part of most every country in ours, and comparisons were never ending. New York was too big. Washington was more like European cities.

The vastness of the land was appreciated for the first time by most. The visitors had not conceived that population in the States could be so dense in places, and yet the country devoid of human life in so many more places. When travel moved across the plains, Rockies, and desert, one Parisian spoke

with renewed feeling for the pioneering American spirit that could so conquer the land under such great difficulties such a short time ago. Then, too, the abundance of tempting American foods captured their interest and appetites. But in eating, the men objected to the way Americans bolted their good food, themselves practicing it as a gentle, unhurried art. Of course, it could be carried too far, as when train departure suggested a sandwich instead of filet mignon!

My forestry school town of Moscow, Idaho, took an entirely different meaning for the men, several of whom lived but short distances from Russian influence. In reaching it between Bovill, where logging operations were studied, and Spokane, the men were anxious that a stop be made where, facetiously, they could visit and write home from Moscow!

But of all impressions the strongest was that of the American worker. Even more so than the sprawling, world-record plants on the study route. They observed the workers' cars and homes, heard of two-car families, and saw firsthand the high standard of living enjoyed by so many. And in the plants they studied and marveled at the speed and efficiency of the workers contributing so to enormous outputs. On the occasion of a chance look at a Labor Day parade amazement seemed genuine on how American labor chose to express itself in this dignified and peaceful manner.

But in the woods and in the plants the Europeans pointed to "colossal" waste of the raw material, saying that such could not be in Europe.

And when given the opportunity, the

visitors were not without good-natured reproof, and in this instance on contrasts in the inventiveness and machine way of Americans. Up and down the land an Englishman from East Africa had been shown and become rightly impressed by American machines. There seemed no end to it until one day near the end of his trip a very complicated truck moved down the center of the highway, painting its white band to divide traffic. It was replete with gadgets, levers and wheels galore, all being worked busily by the several men forward. To the rear the low tailboard of the truck carried a big, strapping 250 pound man whose sole duty was to unconcernedly place a tiny caution flag on the new paint surface below! The story came out before an American audience and drew hearty belly-laughs from all.

Study results are contained in lengthy reports, subsequently filed with both Washington and home governments. Yet, however important these may be, underlying the presence of every visitor was the opportunity to observe democratic institutions and the American people in action.

The men have returned and to me the association is all in retrospect now. Success in the studies came from the real effort put forth by Americans in presenting their work so ably. Numerous lasting contacts have been made professionally and I, in turn, can count the development of real friendships. The visitors differed from us, mostly only in language and customs.

I am glad for my part in this work—a rare experience, indeed.

A New Research Project on Logging Slash Disposal at the University of Idaho

By D. S. OLSON, Research Silviculturist

Satisfactory disposal of debris left after logging in the white pine type has always been a perplexing problem. Normally even-aged, white pine stands are clear cut in one or several operations

often yielding 30 MBF per acre. The volume of slash resulting from such cuttings is heavy, but even so, this may be further aggravated by the addition of cedar slash from pole making, much ac-

cidental slash from "push over" of smaller trees in felling and defective material left in the woods. In modern mechanized logging, where jammer spurs, skid roads and truck hauls cross a square mile 10 times or more, much additional material is added to logging slash from right-of-way clearing. Such accumulation of debris from logging presents a major problem in slash treatment.



Bulldozer Piling Up Slash

Until recent years, slash disposal was considered desirable as a sanitation measure, to reduce possibilities of insect and disease epidemics arising from strewn dead material in the woods, but now this danger is largely discounted by our entomologists and pathologists excepting under some special conditions. It is generally agreed that logging slash concerns us primarily as a fire menace. This is especially serious in the white pine type of Northern Idaho, where explosive fire conditions occur in the forests during typically dry summers. Recognizing this, Idaho and other states of the Northwest have slash disposal laws requiring operators to dispose of or reduce the fire hazard created by their operations.

Prior to World War II, hazard reduction was accomplished mostly by burning the debris, usually through broadcast burning after clear cutting, or piling and burning the slash where it was desirable to protect residual trees. The objective

was fuel reduction; that is, removal for all time of the dangerous fuels by burning, and thus eliminating the danger of accidental slash fires running wild into adjoining uncut stands.

Particularly since the war, there has been an urgent demand for an overhauling of slash disposal practices. The opinions of foresters and operators persist, that hand piling and burning is an antiquated practice that should be brought in line with other mechanized wood's operations; that burning of so much organic matter is a detrimental practice; and that the cost under present wage rates is too great. Furthermore, accessibility of present day logging areas and improved fire fighting technique has, it is claimed, greatly diminished the possibilities of run-away slash fires.



Typical Logging Slash in White Pine Type

Whether all or any of these claims are valid is more or less speculative, but there is general agreement that the \$500,000 spent annually for slash disposal in the white pine type is large enough, and the interrelated problems of slash disposal to other practices in the complexities of white pine management serious enough, to warrant expenditures for a thorough study of the whole problem. Accordingly, through the influence of several interests, a research project was started, using special research funds, at the Forest, Wildlife and Range Experi-

ment Station of the University of Idaho. Federal, state, and private forestry interests are eagerly cooperating in the undertaking.

Slash disposal, like other forest practices in white pine management, cannot be treated independently of those other practices. All are related, so changes or development of new practices must perceive those relationships.

Recognizing that the slash problem varies with age of stand, mixtures, degree of cutting, logging methods, slope, aspect, and numerous other factors, no attempt is being made to develop a set of standard slash treatments that will serve as a panacea for this wide range of conditions. Rather, the main approach is to study underlying principles involved that will serve as tools, for the men dealing with the problem, in determining the method of slash treatment best suited for each cutting area.

One of the studies deals with the rate of slash decay. Obviously, if slash is to be left to natural processes of disintegration we need to know how long the debris will remain a high fire hazard, requiring intensive protection, and under what conditions disintegration will be most rapid. Sample plots are being established to determine this. Old slash from cuttings of known date is also being studied to enable us more quickly to telescope results into the future. An important consideration in these studies is the beneficial effect of shade on slash. While the slash problem is directly related to slash volume and hence the timber volume cut, perhaps of equal importance is the amount of over wood left that will give protective shade to the slash. This likewise is related to the volume cut. Canopy shade aids in retaining moisture in slash, thus reducing inflammability of those fuels and providing conditions more favorable for decay producing fungi.

Another study deals with the effects of fire on soil. Broadcast burning of slash is still in fairly common practice, especially where the commercial volume is clear cut in one operation and the residual of secondary species such as hemlock and white fir are defective. There is one school of thought that be-

lieves fire is a good silvicultural tool in white pine management, particularly for regeneration of white pine and for control of blister rust. Another group believe the destruction of tens of tons per acre of organic matter, along with soil micro-organisms in forest duff is a harmful practice. The study is aimed at evaluating some of those factors.

At the same time, slash problems are being approached in several other ways. If the heavy concentrations posing a major problem can be reduced in volume, the solution of disposal methods for the remainder is simplified. A particularly



Cutting Area After Piling With Bulldozer

troublesome concentration is the highly inflammable cedar slash from pole making when added to sawlog slash. Broadcast burning is the simplest immediate solution but this practice of course cannot be used in partial cuttings. Even burning of piled slash may result in much damage to residual trees where the volume of slash is great. Closer utilization, greater care in felling, to reduce accidental slash, and lighter cuts are means of reducing the problem. Use of these possibilities largely depends upon economic factors but when it is realized that safe disposal of heavy slash concentrations will run \$50 and up per acre, there are possibilities of a little "give and take" between practices that may result in an over-all saving. One

suggestion arising from these observations was that cedar cut after the main logging operation might be skidded in tree-lengths to the idle landings and the poles made there instead of at the places they were felled. This method would bring much of the cedar slash out of the woods where it could be disposed of cheaply. Some pole makers plan to test the method this year and keep cost records of both pole making and slash disposal to determine the effectiveness of the plan.

Following the trends of logging, slash disposal practices are becoming mechanized. The Idaho Timber Protective Associations, which handle slash disposal on State and private land, are especially active in this development. Bulldozers with special blades are in common use for bunching slash. This ma-

chine has limited use in the white pine type where slopes are often too steep and stumps and residual trees too dense for maneuvering; but in the more open ponderosa pine type, it does an excellent job, cleaning up the heavy as well as light slash.

Trials are now under way to break up and crush slash into the soil with tractors and a sheep's foot roller. A portable wood chipper for grinding up the slash will be tested at the first opportunity.

All in all, slash disposal is a big complicated problem and it is not expected that the many possibilities can be explored and the answers found in a short time. Fortunately this was recognized at the start and the Slash Disposal Research Project has been set up as a long-time study.

Thirty-Five Year Graduate

By HELEN M. SCHOFIELD



A native of Illinois, William R. Schofield completed his elementary and high school education in El Paso, Illinois and entered the University of Idaho in the fall of 1912.



During the summer vacations he was employed by the U. S. Forest Service on the Selway and Caribou National Forests. Following graduation in June, 1916, he was employed on the Cache and Sevier National Forests until World War I.

In May 1917 he entered the First Officers Training Camp at Presidio of San Francisco, later transferring to the Air Service Ground School at the University of California. Trained with the French as a pilot, he was commissioned a First Lieutenant and served in France until the close of the war.

On his return from the war in 1919 he became Chief of Grazing Reconnaissance in District One, U. S. Forest Service with headquarters in Missoula, Montana.

In 1920 he resigned from the Forest Service and was elected County Engineer of Blaine County, Montana. After one and one-half years in this position he resigned to become Deputy Supervisor of the Wyoming-Bridger National Forest, headquarters at Kemmerer, Wyoming. In 1922 he resigned from the Forest Service to go into business for himself which took him to Southern California.

From 1924 to 1932 he was a resident of Humboldt County, California, employed during these years as a Timber Engineer for the Hammond Lumber Co., Secretary-Supervisor of the Humboldt Redwood Reforestation Association and Secretary-Engineer of the Humboldt County Planning Commission.

From 1932 to 1943, Mr. Schofield was employed by the State of California as Timber Engineer for the State Tax Research Bureau, and as Administrative

Assistant and Senior Valuation Engineer for the California State Board of Equalization engaged in timber taxation and valuation.

In 1943 he assumed his present position of Secretary-Manager of the California Forest Protective Association, San Francisco, California, one of the oldest existing associations of private timber ownership in the nation. During its 41 years of existence this Association has played a major part in the development and enactment of California's efficient and progressive forest protection and management laws. As legislative representative of the timber owners and operators in the State, Mr. Schofield authored the California Forest Practice Act of 1945, designed to promote sustained forest production on California's 8.3 million acres of privately owned forest lands.

Mr. Schofield married Elizabeth McMillan of Samoa, California, in 1920. An only son of this marriage, Lieutenant Richard M. Schofield was killed in action in the third B-29 bombing raid of Nagoya, Japan, on December 22, 1944.

In 1942 Mr. Schofield married Helen Meyer of Sacramento, California. They have two daughters, Marian 8 and Roberta 7, and their residence is in Berkeley, Calif., where the welcome sign will always be out for grads, former students and faculty of the University of Idaho.

The Idaho Wildlife Research Unit Three Years of Progress

By V. S. PRATT

In the 1948 *Idaho Forester*, Dr. Paul Dalke, Leader, reporting on the newly organized Idaho Cooperative Wildlife Research Unit, outlined the primary objectives and showed the great need for wildlife research in the State. Since that report much progress has been made in the research program of the Unit and several new courses of instruction have been added.

To review briefly, the Wildlife Research Unit was activated in the fall of 1947 as a part of the Forest, Wildlife, and Range Experiment Station of the School of Forestry with the State Fish and Game Department, the Wildlife Management Institute, and the Fish and Wildlife Service of the U. S. Department of the Interior cooperating. The objectives of the Unit, as stated by Dr. Dalke

in his 1948 report, are "(1) to provide professional training in wildlife and fisheries management; (2) to conduct investigations which will be of assistance to the Fish and Game Department in the management and administration of the State's wildlife resources; and (3) to disseminate research findings through publication of reports, circulars, journal and magazine articles and demonstrations."

Considerable expansion has taken place in the Unit in its three years of existence. Two undergraduate courses were being offered when the Unit was activated but formal graduate courses in wildlife did not appear until the spring of 1949 with the addition of advanced wildlife management and advanced wildlife studies. The addition of wildlife ecology together with the informal investigations courses in 1949 and 1950 pretty well rounded out the field of study in the management of big game and fur animals, waterfowls, and upland game birds. A new field was opened to Idaho students in the fall of 1950 with the addition of courses in fish and fisheries. An undergraduate course in ichthyology and graduate courses in limnology and fishery biology permit graduate students to major in fishery management.

The achievements of the first six research fellows who began their investigations during the spring and summer of 1949 seem to indicate that the Unit is fulfilling its objectives. The projects of all six fellows were completed during the summer of 1950 and five theses under the following titles have been presented to the Graduate School:

Factors Affecting Pheasant Production on the Irrigated Lands in Southern Idaho, by Herbert E. Salinger.

A Preliminary Investigation of the Muskrat Population of Gray's Lake, Idaho, by Roger M. Williams.

Factors Affecting Waterfowl Production at Gray's Lake, Idaho, by Elwood G. Bizeau.

Sampling Yields and Utilization of Browse on Winter Deer Ranges in

Northern Idaho, by Allen D. Morton.

The Life History and Ecology of the Mountain Goat in Idaho and Montana, by Stewart M. Brandborg.

The sixth thesis dealing with the ecology and management of the bighorn sheep in Idaho, by Dwight R. Smith, is being typed and will be completed shortly.

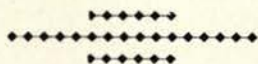
All six of the men have already accepted responsible research positions, four with the Idaho Fish and Game Department, one with the California Fish and Game Department, and one with the U. S. Forest Service in Colorado. Not only have they received valuable professional training but they have also contributed information that is proving to be very helpful in the management of our wildlife resources.

At the present time there are eight graduate students in the Wildlife Research Unit, five of whom are on fellowships. Their proposed investigations include such subjects as winter range of the elk, blue grouse ecology, waterfowl production, deer populations and nutrition, beaver-trout relationships, and trout populations of high altitude lakes.

In addition to the investigations by the graduate students several projects by the members of the Unit staff are in various stages of completion. The staff at present consists of Paul D. Dalke, Leader, and Biologist, U. S. Fish and Wildlife Service; and Professor of Wildlife Management, School of Forestry; Kenneth E. Hungerford, Assistant Leader and Assistant Professor of Wildlife Management, School of Forestry; Thomas D. Burleigh, Systematic Zoologist, U. S. Fish and Wildlife Service, and Assistant Professor of Wildlife Management, School of Forestry; Virgil S. Pratt, Assistant Professor of Fishery Biology, School of Forestry; Maurine Smith, Secretary.

An air of tense expectancy pervades the laboratories and offices of the Wildlife Unit for rumor has it that next month will see the personnel comfortably established in much more spacious and comfortable quarters on the second floor of the Forestry Building.

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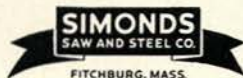


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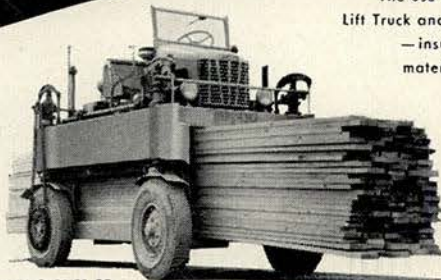
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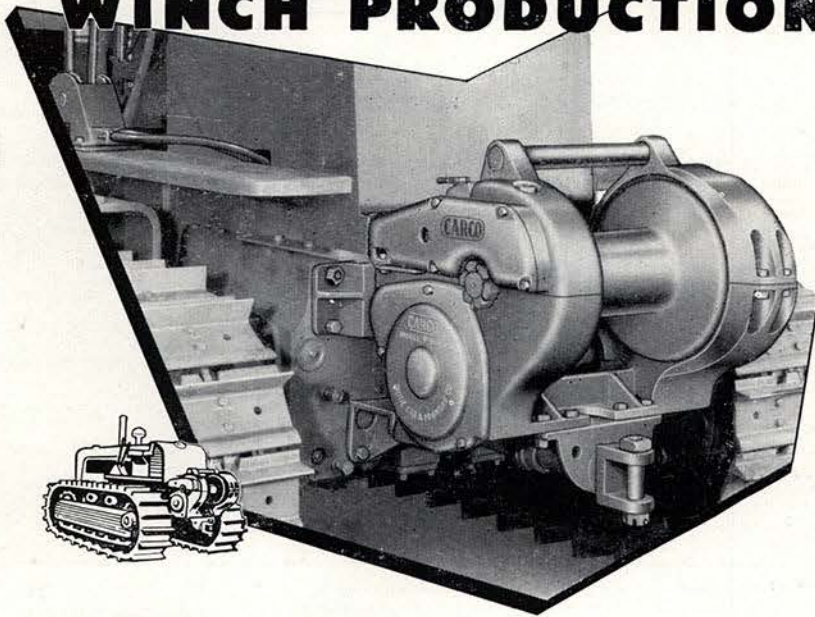
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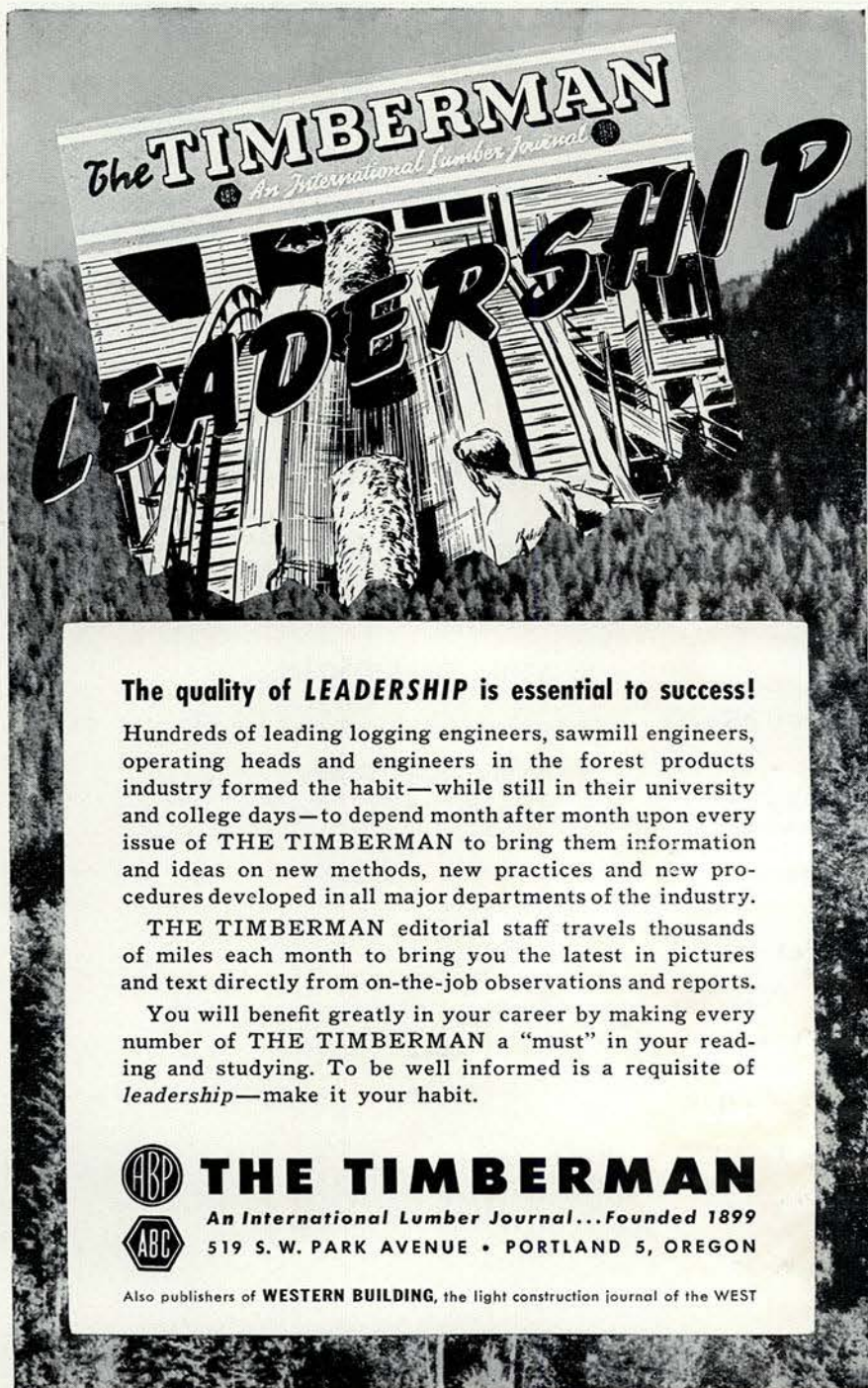
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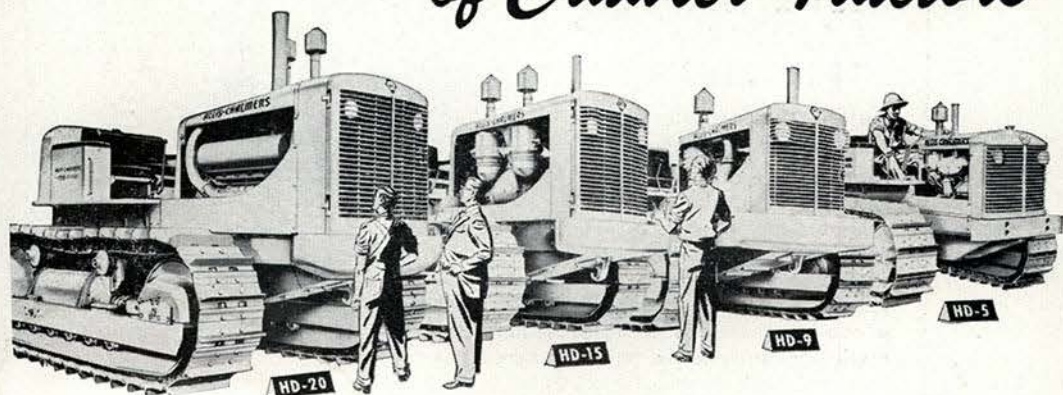


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