

1948
Forestry Kaimin

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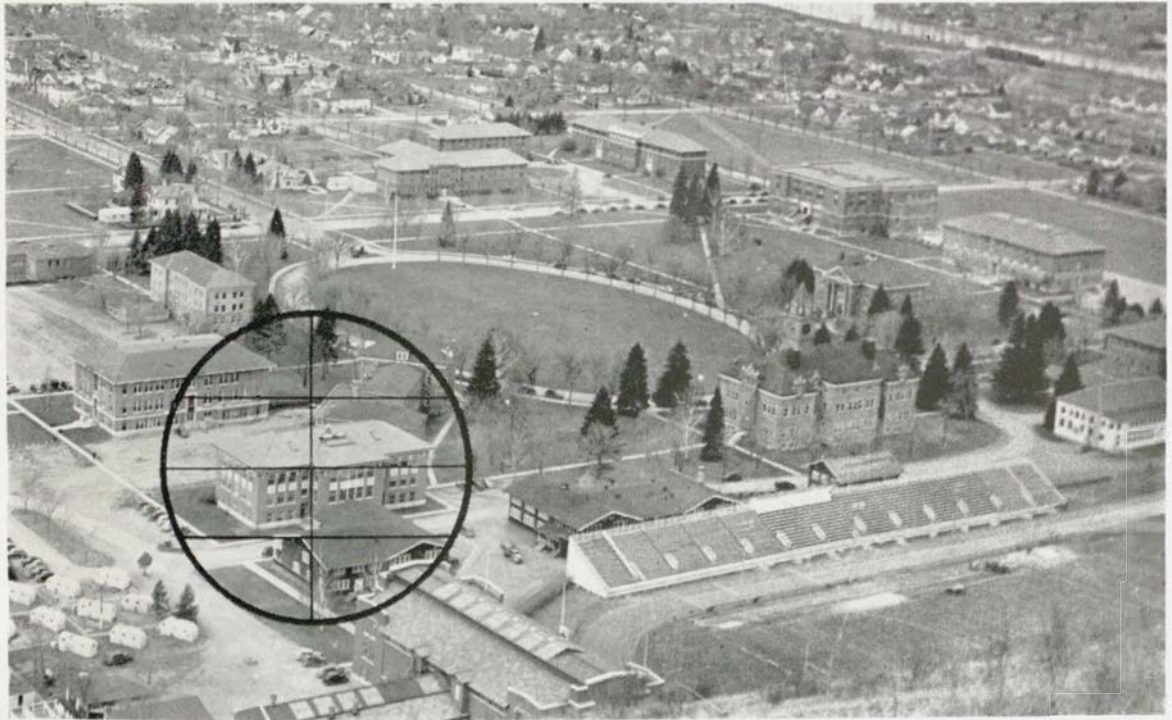


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THE

1948

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FORESTRY KAIMIN

Published by

THE FORESTRY CLUB

of the

MONTANA STATE UNIVERSITY FORESTRY SCHOOL

MISSOULA, MONTANA

DEDICATION



KENNETH P. DAVIS
Dean, School of Forestry

It is three years now since Kenneth P. Davis returned to his native state as dean of the Forestry School from which he graduated twenty years ago. During this seventeen years he followed his chosen profession across the country to the Forest Management Research Division of the Washington Office of the United States Forest Service, which he headed before coming back to his Alma Mater. During the short time he has been here he has guided us with a friendly, helping hand and assisted us, as well as the school, in becoming better and stronger.

To him, we proudly dedicate this issue of the Forestry Kaimin.

FOREWORD

The 1948 issue of the Kaimin rings the curtain down on another top season for the Forestry Club. President Bill Lockhart and his crew have done an exceptionally fine job in keeping us the most active club on the campus and the foresters again threw the best shindig of the year as Paul Bunyan romped happily in the men's gym for two successive nights. The lawyers failed miserably in holding up their end of our traditional feud (as usual) and "Bertha," the patron saint of the embryo foresters smiles benevolently down on her woods crew as we conclude a very successful year.

FORESTRY KAIMIN STAFF



Editorial Staff:

First Row: Norm Knapp, Senior Section; Franklin Cech, Editor; Charles Kern, Photographer, Assistant Editor; Jim Mueller, Articles.

Second Row: John Staley, John McDougal, Layout.



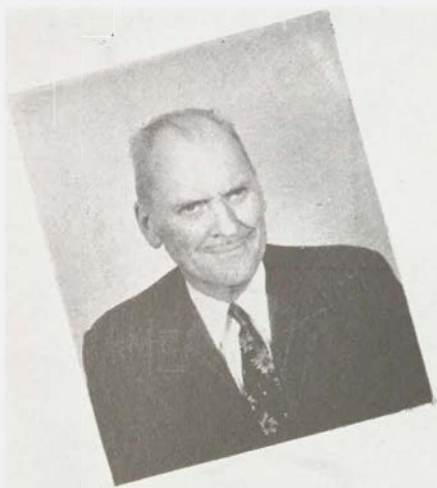
Advertising Staff:

First row: Frank Weskamp; Harry Hermes; Lowell Asher, Advertising Manager; Gary Moon, Assistant Advertising Manager.

Second Row: John Brinkerhoff; John Weber; Norm Allison, Senior Adviser.

Not Pictured: Olga Cech, Makeup; Don Leaphart, Senior Adviser.

FACULTY



F. G. CLARK
Forest Measurements
Forest Valuation

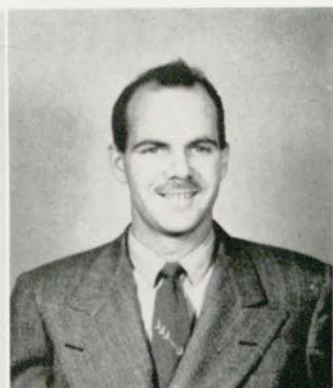
K. P. DAVIS
Dean of Forestry School
Survey of Forestry
Research Methods

T. C. SPAULDING
Forest Policy
Forest Economics
Forest Utilization

C. W. WATERS
Forest Pathology
Silviculture
Dendrology

O. M. PATTON
Manager, Forest
School Nursery
Silviculture

M. S. MORRIS
Range Management
Soil Technology
Wildlife Management



W. CASTLES
Measurements
(Assistant)

JEAN STROM MARY LEAPHART (Mrs.)
EDNA H. CAMPBELL (Mrs.)
Forestry School Secretaries

T. WALBRIDGE
Mapping
Surveying

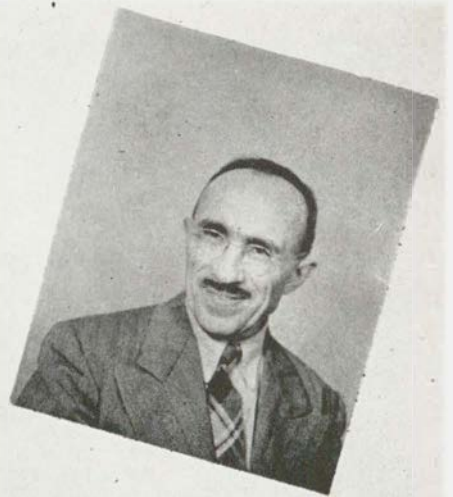
FACULTY



G. B. CASTLES
 Zoology
 Entomology
 Animal Ecology



J. W. SEVERY
 Biological Science
 Plant Physiology



J. KRAMER
 Botany
 Plant Ecology
 Plant Physiology



R. H. DIERTERT
 Botany
 Plant Physiology
 Dendrology



R. B. BRUNSON
 Zoology



L. G. BROWMAN
 Zoology
 Human Physiology



L. HULBERT
 Botany



L. H. HARVEY
 Systematic Botany



P. L. WRIGHT
 Zoology
 Mammology
 Ornithology

NEW FACES AMONG THE STAFF



KENNETH E. MOORE

Instructor: Surveying, Mapping, and Forest Engineering.

B.S.F., University of Connecticut, 1934.

M.F., Yale University, 1946.



PAUL E. BRUNS

Associate Professor: Logging, Silviculture, and Forest Management.

A.B., New York University, 1937.

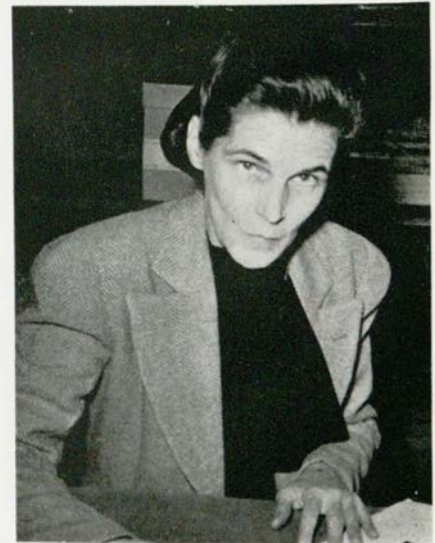
M.F., Yale University, 1940.

MAIDA RESIGNS; MRS. H. ETTINGER IS NEW LIBRARIAN



MRS. MAIDA GUENTHER

The Kaimin takes this opportunity to thank Mrs. Maida Guenther for her help and cooperation during the time she was librarian, and to wish her well in her new role as housewife. We also want to welcome Mrs. Helen Ettinger, our new librarian, who has already shown her ability during the past two quarters.



MRS. H. ETTINGER

MASTER DEGREE CANDIDATES



KENNETH BOE

B.S.F., M.S.U., 1946.
M.F., M.S.U., 1948.

THESIS:

IS DOUGLAS FIR REPLACING PONDEROSA PINE IN THE CUT-OVER STANDS IN WESTERN MONTANA?

The purpose of this study is to present factual information on whether Douglas fir is replacing ponderosa pine in cut-over stands. Sixty sample plots were located and measured in representative ponderosa pine stands. From the data obtained, original, reserve, and present stands were reconstructed to show the proportion of Douglas fir to pine. Comparisons were made of the present young stands to the original stands to determine the composition changes. Analysis of sample units was made by aspect as environmental conditions are very dissimilar on different aspects within a stand.

Results of the study are as follows: Typical ponderosa pine stands on northerly aspects following logging are reproducing to predominantly Douglas fir stands. Composition changes were occurring under the original forest canopy and have become more pronounced in the reproduction stands. Pine reproduction is obtained in variable amounts on these aspects after the stand is opened up by logging; but is sharply contrasted to the consistent regeneration of Douglas fir. Two types of pine stands on southerly aspects are represented in the sample units. The first, which were stands having a high proportion of Douglas fir in the original stands are regenerating almost exclusively to Douglas fir. The second, which were typical pine stands having associated minor amounts of Douglas fir, are regenerating on two-thirds of the sample units to ponderosa pine and on one-third to Douglas fir.

THESIS:

FOOD HABITS OF THE ROCKY MOUNTAIN GOAT IN WESTERN MONTANA

The Rocky Mountain goat is a native of only three states in the United States: Montana, Idaho, and Washington. Western Montana has many areas of goat habitat which support a total of over 5000 mountain goats. "The dizzy height of its homeland is adequate protection from most of the natural enemies" and has held back hunters and wildlifers alike. Increased penetration into mountain goat haunts in recent years is placing a demand on the game manager for an assurance of a sustained crop in the future. The manager must then penetrate this haunt with the hunter and study ecological problems of this game species so criteria of survival may be recognized and adjustments made to meet hunter and esthetic demands.

Food habits and food requirement of any animal are fundamental criteria upon which management must always depend. Very little objective work has been done on the food habits of this animal and it is the purpose of my research to produce at least a limited supply of facts on this phase for the annals of mountain goat managers.

Areas used in this study are limited to the Red Butte area near the West Fork of the Sun River west of Augusta, and the Rattlesnake drainage north of Missoula.

An analysis was made of the characteristic vegetation of mountain goat terrain and of the preference with which the animals will select the species for food during the different times of the year, in an effort to make possible a better appraisals of mountain goat ranges and affect better herd management.



ROBERT CASEBEER

B.S.F., M.S.U., 1947.
M.S.F., M.S.U., 1948.

MASTER DEGREE CANDIDATES

THESIS:

CLASSIFICATION PROBLEMS AFFECTING FORESTRY AND GRAZING IN THE BITTERROOT VALLEY OF WESTERN MONTANA

Land classification is the segregation of lands into types based upon the climate, soil, topography and local human desires. The Bitterroot Valley of Western Montana needs such a program to have perpetual conservation, to stabilize communities, and to return to the operator the highest financial return.

My study is concerned with the returns from timber and beef production as affected by land classification. Farmers and ranchers need to know the future yield on areas with trees or cattle as alternative products. Can this yield be predicted by a study and application of soil, climatic and topographic conditions, or must it be found by experiment?

Returns from timber will depend, in addition to the present stand, upon the past use—grazing, fire, and previous cuttings. More information is also needed on the production and yield of posts, poles, and pulpwood. Land may be used at the same time for grazing and forestry, thus introducing new problems of tree production.

Other interlocking problems must also be solved before a yield of beef or timber can be predicted. In some areas local planning boards will limit the use of their cooperators' land to conform to zoning ordinances. Remote units will be used for production of crops not requiring year long residence by the operator. These problems are only a few of the considerations in land use planning. If a classification venture is to be a success, all possibilities must be inspected.

THESIS:

A DESCRIPTION OF THE OLD GROWTH DOUGLAS FIR STANDS IN THE BIG BELT MOUNTAINS

The area under study is within the Helena National Forest boundary, including both private and government lands.

Prehistorically, the Big Belt Mountains of Central Montana belonged to the Rocky Mountain Range, however, there is little connection between them now. Douglas fir is the most important commercial timber species occurring within the Big Belts, and logging was initiated as early as the 1870's.

The slaughter of the yellow pine stands and the collapse of the early mining boom marked the disintegration of the local lumber industry. One or two "gyppo" mills continued to operate from time to time, but their annual average cut did not exceed 200 M.b.m. Present day lumber demands have made possible a yield somewhat near the estimated sustained yield limit of the National Forest lands.

Field observations of cut-over areas reveal mostly unfavorable results from logging.

This thesis is the first step in formulating a sound management plan. It is a general description by site classes of the old growth Douglas fir stands which dominate the area. These stands are about 260 to 300 years old and mostly even-aged. Special attention is given to the soil and biotic influences. Developed during the study were: stand and stock tables, local volume tables, defect tables, taper differences and a resume of past cutting operations. With the use of these tools future silvicultural practice can be built up by the timber manager.



GORDON HOLTE

B.S.F., M.S.U., 1947.
M.F., M.S.U., 1948.



ROBERT JANSSON

B.S.F., M.S.U., 1938.
M.F., M.S.U., 1948.

MASTER DEGREE CANDIDATES

THESIS:

A STUDY OF MONTANA SHELTERBELTS

Trees have been planted in Montana for over fifty years. As long ago as 1895 the original homesteaders and settlers planted trees to break the force of the wind.

Since 1916 the farmers have obtained the bulk of their trees from the Federal cooperative agencies—Clarke-McNary, Bureau of Plant Industry, and the Soil Conservation service. Through the assistance of these agencies some nine and one-quarter million trees have been planted in Montana for windbreak, shelterbelt, soil conservation and wildlife purposes. Unfortunately, in most cases, no records on survival and performance were kept. Failures were not analyzed and the upset factors little understood. This emphasizes the need for more and better information on Montana windbreaks.

In the summer of 1947 a study was set up by the Montana Forest and Conservation Experiment Station of the School of Forestry at Missoula and the Montana Agricultural Experiment Station at Bozeman to obtain and organize available information on shelterbelts in Montana. This information is to be incorporated in a publication concerning the following aspects: tree planting zones of the state; suitable species for each zone; care of the belt; location, composition, spacing and planting methods; reestablishment or restoration of existing plantings; and a study of existing tree planting programs with recommendations for improvement. This bulletin will be made readily available to the Montana farmer.

THESIS:

A SURVEY OF THE CHRISTMAS TREE INDUSTRY IN WESTERN MONTANA

In a span of nineteen years the Christmas tree industry has become a million dollar enterprise. A primary industry in some communities, the dollars which remain are their life's blood. As a secondary industry, it looms large in providing seasonal employment and higher standards of living to many families.

Private land devoted to the production of Christmas trees is not increasing appreciably in acreage, but the number of trees cut on these lands has increased 64% in the last ten years. To maintain this high level of volume and quality production, careful management measures must be carried on.

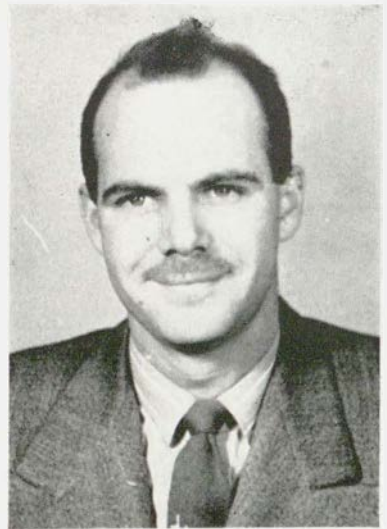
What are effective management practices? What type of land is most suitable for Christmas tree production? What yields are possible under management? Answers to these questions are being sought through the medium of a survey of growers and producing areas.

Producing areas fall into these natural divisions: Eureka-Fortune area; Libby; Plains; Kalispell-Bigfork area; Somers-Polson area; Missoula; and the Bitterroot Valley. The most efficient growers in each area are to be contacted personally. Data on ownership, methods of production and marketing, effective acreage of ownership, cultural practices, management practices, and yields will be obtained. Analysis of these data will provide a basis for recommendations to all growers, and others interested in the management of Christmas tree lands.



JACK SCHMAUTZ

B.S.F., M.S.U., 1947.
M.S.F., M.S.U., 1948.



THOMAS A. WALBRIDGE, JR.

B.S.F., Washington U., 1942.
M.S.F., M.S.U., 1948.

GRADUATING SENIORS



Allison, Norman E.
Baldwin City, Kansas
Forest Management

University of Kansas, '38-'41; Washington State College, fall '41, winter '42; Forestry Club 3, 4, 5; Foresters' Ball Display Room Chairman 3, 4, Trees and Boughs Senior Adviser 5; Forestry Kaimin Business Manager 3, 4; Druids Historian 4, 5.
Summer Work: Blister Rust Control Crew Leader, Coeur d'Alene National Forest, '41; U. S. Forest Service, Road Location, Assistant Road Locator, '46, '47.



Asher, Lowell
Helena, Montana
Forest Management

Western Michigan College, '43-'44; Forestry Club 1, 2, 3, 4, 5, Vice President, Senior Representative; Foresters' Ball 1, 2, 3, 4, 5, Chairman and Adviser Gymnasium Decorations; Forestry Kaimin, Assistant Business Manager 4, Business Manager 5; AWFC Affairs Editor 2, 3; SAE 1, 2, 3, 4, 5, President 5; Assistant Botany 4; Intramural 1, 2, 3; Traditions Board 3.
Summer Work: Seasonal Ranger, Yellowstone National Park, '42, '46, '47.



Baldwin, Richard E.
Hammond, Indiana
Forest Management

Purdue University, '40-'43; Forestry Club 4, 5; Foresters' Ball 4, Summer Work: Fire Camp, Thompson Falls, '42; Timber Cruiser, Region 1, '46, '47; Timber Cruiser, ACM, fall '47.



Bennet, Carl Van
Burbank, California
Logging Engineering

Forestry Club 1, 2, 3, 4; Foresters' Ball 1, 2, 3, 4.
Summer Work: Blister Rust Control, Kaniksu National Forest, '39; Forest Guard, Kaniksu National Forest, '40; Maintenance Man, California State Forest Service, spring and summer, '46; Laborer, Road Construction, U. S. Flood Control, Angelus, California, winter, spring and summer, '47.



Corrick, Ernest B.
Elkins, West Virginia
Forest Management

Davis and Elkins College, '38-'42; Colorado A & M, '46-'47; Alpha Gamma Rho Fraternity.
Summer Work: Trail Construction, U.S.F.S., New Hampshire, '39; Recreation, U.S.F.S., West Virginia, '40, '41, '46, '47.



Davidson, Robert W.
Evansville, Indiana
Forest Management
and Engineering

Glendale Junior College, '40; Purdue University, '40-'41; Foresters' Ball 2, 3; Forestry Kaimin 3; Druids 3, 4; Student Assistant to Fay Clark 4.
Summer Work: Trail Maintenance and Lookout, '42; Kootenai Forest; Timber Cruiser, Flathead National Forest, '46; Road Location, J. Neils Lumber Co., '47; Interstate Lumber Co., Retail Lumber Yard, '47.



Ferguson, Charles W. (Wes) Jr.
Big Bear City, California
Range Management

Fullerton Junior College, '40-'42; Forestry Club 3, 4, 5; Vice President 5; Foresters' Ball 3, 4, 5; Property 4, 5; Druids 4, 5; Treasurer 5; Spanish Club 5.
Summer Work: Fire Suppression, California State Division of Forestry, '41-'42; J. C. Wootton Development Co., Los Angeles, California, Tongue and Groove Log Cabin Half Logs, '46; Cabin Construction, '47.



Haller, Frederick B.
Missoula, Montana
Range Management

Forestry Club 1, 2; Foresters' Ball 1, 2, 3; Sigma Nu; Assistant Mapping 2.
Summer Work: Field assistant Range Surveys, Bitterroot National Forest '38; Field Assistant Bitterroot and Cabinet National Forests '39; Range Conservationist, Absorka National Forest '40; '41; Range Conservationist, Regional Office '42; Range Conservationist, Beaverhead and Helena National Forests and Regional Office '45, '46. Worked full time from '38-'42 and '45-'46. Range Conservationist and Assistant Ranger, Custer National Forest summer '47.



Hamre, Jean Peterson
Missoula, Montana
Forest Management

Forestry Club 2, 3, 4, 5; Chief Cook 2; Secretary 3; Foresters' Ball 3, 4; Chairman Eats Committee 3; Co-Chairman Ticket Committee 4; Druids 4, 5; Tanan of Spur 2; Kappa Kappa Gamma 1, 2, 3, 4, 5.
Summer Work: Clerk and Dispatcher, Sylvanite Ranger Station, Kootenai National Forest, '44; Clerk and Dispatcher, Raven Ranger Station, Kootenai National Forest, '46 and '47; Clerk, Forest Supervisor's Office, Coeur d'Alene National Forest '47.



Hayes, Richard R.
Aberdeen, South Dakota
Forest Management

NSTC, Aberdeen, South Dakota '38-'39; South Dakota State '39-'40; Foresters' Ball 3, 4; Phi Sigma 3, 4; Secretary-Treasurer, Assistant, Surveying 3, 4.
Summer Work: Timber Marker, Montana State Forest Department, '47.

GRADUATING SENIORS

Leaphart, Charles D.
Missoula, Montana
Forest Management

Forestry Club 1, 2, 3, 4; Foresters' Ball 1, 2, 3, 4; Forestry Kaimin 3, 4; Associate Editor 3; Senior Adviser 4; Druids 3, 4; Phi Sigma 2, 3, 4; Kappa Tau 3, 4; Sigma Chi 1, 2, 3, 4; Assistant Dendrologist, Wood Technology 4; Varsity Football 1, 2, 3, 4; M Club 2, 3, 4.

Summer Work: Student Fire Camp, Nine Mile '41; Smoke-jumper '42.

McCarthy, Colleen
Missoula, Montana
Forest Management

Forestry Club 2, 3, 4, 5; Cook 2; Secretary 3; Druids 4, 5.
 Summer Work: Fire Research, Northern Rocky Mountain Range and Experiment Station '45; Fire Weather, Priest River Experiment Station '46.

McElfresh, Richard J.
Wolf Point, Montana
Range Management

Forestry Club 1, 2, 3, 4, 5; Foresters' Ball 1, 2, 3, 4, 5; Men's Co-op 1, 2, 3; Assistant Range Management 5; Druids 3, 4, 5; Chairman Druid News Letter 4.

Summer Work: Student Fire Camp, Nine Mile '41; Headquarters Guard and Dispatcher, U.S.F.S. '42; Range Survey, Umatilla National Forest '47.

Mlynek, William
New York City, New York
Forest Management

Forestry Club 1, 2, 3, 4; Foresters' Ball 1, 2, 3, 4; Druids 4; Phi Sigma 3, 4; Bearpaw 2; Football Manager 1, 2.
 Summer Work: Student Fire Camp, Nine Mile '41, '42; Cruising, Scaling and Timber Sales, Kootenai National Forest '47.

Molloy, Robert K.
Missoula, Montana
Forest Management

University of Washington '41-'43; Forestry Club 3, 4; Foresters' Ball 3, 4; Forestry Club Bowling Team 3, 4; Druids 4; Phi Sigma 3, 4; Delta Upsilon (U. of Washington) 1, 2.

Summer Work: Blister Rust Control, U. S. Forest Service, Idaho, '41; Forest Fire Patrol Warden, Walter Butler Construction Co., Farragut, Idaho, '42; Compassman in Cruising Party, Northern Pacific Railroad, Montana, '47.

Morgan, Bob
Missoula, Montana
Forest Management

Forestry Club 1, 2, 3, 4; Foresters' Ball 1, 2, 3, 4; Forestry Kaimin 3; Ski Club 1, 2; Sigma Alpha Epsilon 3, 4.

Summer Work: Student Fire Camp, Nine Mile '41; Lookout, Priest Lake Ranger Station '42; Smokejumper '46; Smokejumper, Squadleader '47.

Morris, Robert C.
Missoula, Montana
Forest Management

Michigan Northern State Teachers '39; Wisconsin Central State Teachers '36-'37; Forestry Club 2, 3, 4, 5; Theta Chi President 2; Intra-mural Bowling 3, 4, 5; Inter-fraternity Council President 2.

Summer Work: Fire Guard, Glacier National Park, '41; Fire Control Aid, Glacier National Park, '46; Fire Control Aid and Headquarters Assistant Dispatcher '47.

Nelson, Neal D.
Butte, Montana
Forest Management

University of Idaho '22-'26 (BS-ED); Forestry Club 5.
 Assistant Forest Supervisor, Coeur d'Alene National Forest, prior to World War II; Assistant Forest Supervisor, Deerlodge National Forest, following World War II.

Rodgers, Don
Greybull, Wyoming
Range Management

Forestry Club 1, 2, 3, 4, 5; Foresters' Ball 1, 2, 3, 4, 5; Chairman Doorway Committee 2.

Summer Work: Student Fire Camp, Nine Mile '41; Smoke-jumper '42; Headquarters Guard, Beaverhead National Forest '47.

Russiff, John M.
Miles City, Montana
Forest Management

Custer County Junior College; Forestry Club Junior Delegate Executive Board 3; Foresters' Ball Senior Adviser Publicity Committee 5; Forestry Kaimin Staff 3; Sigma Nu 2, 3, 4, 5.

Summer Work: Range Research, U. S. Forest Service Range and Livestock Experiment Station, Fort Keogh, Miles City, Montana, '44 and '45; Dispatcher, Sula Ranger Station, Sula, Montana, '46, '47.

GRADUATING SENIORS



Saltsman, Joe
Missoula, Montana
Range Management

Ohio University; Rutgers University; Forestry Club 3, 4, 5; Foresters' Ball 3, 4, 5; Forestry Kaimin 3; Ski Club 3, 4, 5; Assistant, Spring Flora.
 Summer Work: Smokejumper '46; Alternate Ranger, Beaverhead National Forest '47.



Schofield, Donald J.
Missoula, Montana
Forest Management

Michigan State College '40-'41; Forestry Club 2, 3, 4; Foresters' Ball 2, 3, 4; Parking Committee Chairman 2; Assistant Push 3, Chief Push 4; Druids 3, 4; President 4; Phi Sigma 4.
 Summer Work: Student Fire Camp, Nine Mile, '41; Road Construction, Powell Ranger Station, Lolo National Forest, '41; Forest Management Research, Deception Creek Experiment Station, Coeur d'Alene, Idaho, '46, '47.



Smith, DeWilton
Forest Management
Missoula, Montana

Antioch College '37-'43; Forestry Club 1, 2; Foresters' Ball 1, 2, 3; Druids 2, 3; Vice President.
 Summer Work: Ranger Naturalist, Glacier National Park '46; Timber Cruiser, Region I, '47; Bug Survey, Bureau of Entomology, Coeur d'Alene, '47.



Wood, Morton A.
Caldwell, Idaho
Range Management

University of Idaho '38 (BS); Johns Hopkins University '46; Forestry Club 4; Foresters' Ball 4; Druids 4; Graduate Assistant, Botany, 3, 4.
 Summer Work: Lookout-Fireman, St. Joe National Forest '37, '38, '40, '41; Prevention Guard, Deerlodge National Forest '46; Timber Management Assistant, Deerlodge National Forest '47.



Zeigler, George T.
Hays, Kansas
Forest Management

Kansas State College '36-'40; Foresters' Ball 2, 3, 4; Forestry Kaimin 3;
 Summer Work: Timber Marker, Montana State Forest Service, '47.

Bloom, Robert H.
Portage, Wisconsin
Forest Management

Forestry Club 1, 2, 3, 4; Foresters' Ball 1, 2, 3, 4; Rifle Club 2; Choir and Boys' Glee Club 1.
 Summer Work: Relief Helper Paper Mill, Beloit, Wisconsin, '41; Student Fire Camp, Nine Mile '42; Lookout-fireman, Lolo National Forest '46; Camp Clerk, J. Neils Lumber Company '47, '48.

McAvoy, Ralph T.—Statistics Unavailable.

PICTURES UNAVAILABLE

FORESTRY CLUB LOAN FUND

For many years the proceeds from the annual Foresters' Ball and the interest from old loans have been building the capital of the Forestry Club Loan Fund until now it has passed the six thousand dollar mark. The purpose of this fund is to give a helping hand via small collateral free loans to Junior or Senior club members needing money to continue their schooling. The conditions under which a student may borrow from the fund are as follows:

1. He must be a regular Junior or Senior member of the Forestry Club in good standing.
2. The amount of the loan is based on the student's need, with \$100 the maximum.
3. No interest is charged if the loan is repaid before October 15th of the year in which the loan is made.

The procedure to follow in securing a Club loan is simple, and to quote Professor Melvin S. Morris, Faculty Adviser, "a loan can be granted within an hour or less, depending on how soon the committee can be gathered."

In order to receive a loan, the student must just fill out an application, available, either at the Forestry School office, or from the Forestry Club treasurer. The application is completed and returned to the treasurer who presents it to a committee composed of three club members and the faculty adviser. This committee reviews the facts and approves or disapproves the application.

After the loan is made, the student has, as previously stated, until October fifteenth of that same year to repay it interest free. After that date interest accrues at the rate of 6%.

MONTANA DRUIDS



First Row: F. C. Cech, R. W. Davidson, R. L. Casebeer, E. L. Davis, W. Mlynek, and J. Faurot.
 Second Row: T. C. Spaulding; W. Ferguson, Treasurer; D. Schofield, President; D. Leaphart, Vice President; W. Lockhart, Secretary; and N. Allison.
 Third Row: O. A. Cech, C. McCarthy, J. E. Schmutz, O. M. Patton, M. A. Wood, R. Molloy, F. G. Clark, and C. W. Waters.



Charles D. Leaphart
 Winner, 1947



Presentation Certificate

ALUMNI SCHOLARSHIP AWARD

Last spring Charles D. (Don) Leaphart received the first of the annual alumni scholarship awards, receiving twenty-five dollars and a certificate of excellence. He was chosen as the outstanding member of his junior class by a committee composed of alumni, faculty and members of the senior class, who based their choice on scholarship, leadership, character, summer work experience and campus activity.

The award has been established as a

memorial to those of the forestry school, students and alumni, who fell in World War II and has been financed through donations from the alumni. The amount of the award each year is the interest from the principle thus accumulated. The hope of the alumni organization as expressed by President Ralph Fields ('25) is that "if the fund does grow large enough to warrant more than one cash award, it may be extended to include outstanding sophomore and freshmen students."



BILL LOCKHART, President

The foliage was in preparation for the Ball. (Ed Note)

THE "WHEEL" SPEAKS

The Forestry Club is one of the largest organizations on the campus and one of the most active. It is an outfit that really does things. As an integral part of the Forestry School it strives always to help build the institution.

Even though the rise in prices has us out on the proverbial limb we have been able to put on the traditional functions and engage in all the usual activities. Last spring the foresters went hillbilly (imagine that) and put on a spring dance that put Dogpatch to shame. By late fall we had become civilized enough to put on the fall dance as a semi-formal—which is getting to be a yearly habit. The spring hike of '47 had one of the largest turnouts in history and the barbecue, prepared by Mr. and Mrs. Monk DeJarnette, was enjoyed by everyone. The fall hike, also a big success, was highlighted by the stories and reminiscences of Mother Evelyn DeJarnette.

We have had teams entered in every intramural sports program that came along with the results sometimes good and sometimes not quite so good—but everybody involved had a good time.

As this is written, the ball is still in its embryonic stages but is certain to be the biggest and best yet. It will be put on for two nights and will feature a huge Paul Bunyan at the entrance, the product of Jack Merkle and an enterprising doorway committee.

One of the toughest problems during the past year has been to get enough reaction from an anemic bunch of shysters to be able to say that the age-old feud was still alive. On Aber Day the law building greeted early risers bedecked with a ramshackle privy above the entrance. The Law School Sisterhood left it hanging there for three days before the maintenance department took it down. However, winter quarter, the ambulance chasers got a transfusion from somewhere and made a feeble attempt to pan us in a convocation skit. Their show (if it could be called that) was plainly crippled by the sudden disappearance before curtain time of the master of ceremonies. We heard he was accused of spending convo in the forestry building. We have hopes that things will soon get back to normal and that we will be able to pass many a pleasant hour a feudin' and a fightin'.

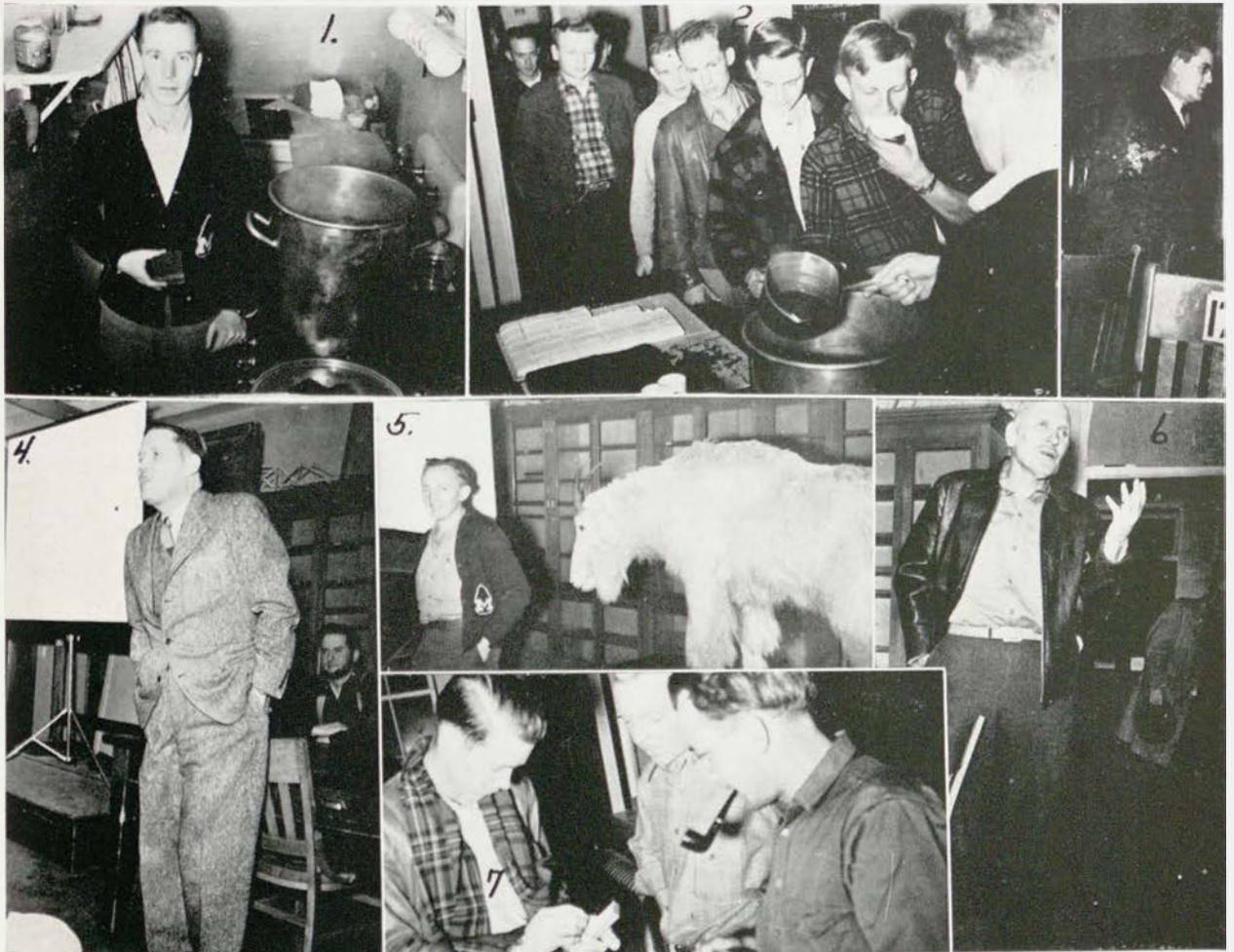
This fall Dean Davis instituted a program to decorate the halls and the old library with exhibits depicting various phases of forestry. We of the forestry club were happy to be invited to help in the project. Part of the job is done and the third floor hall now presents a display of the various grades of white pine lumber. The most effective and interesting part of the whole project is a group of three paintings by "Shorty" Shope at the main entrance. When the work is completed we will have a building of which we can all be proud.

"BILL."



EXECUTIVE BOARD

Left to right, First Row: Euel Davis, Robert Duval, Elmer Heisel. Second Row: George Turcott, Secretary; Bill Lockhart, President; Wes Ferguson, Vice President; Vern Sylvester, Treasurer. Third Row: Lowell Asher, Vern Thompson, Don Schofield, Don Leaphart, John Miller.



CANDID CAMERA AT THE CLUB MEETINGS—1. Chief Cook Dick Bauman in the kitchen. 2. Chow line—Moon serves—McDougal taking a bite, with Staley, Turcott and Walker in line behind him. 3. R. H. Dix, Sales Superintendent, ACM Lumber Department, addresses the Club. 4. President McCain makes his initial address—said it was his first invitation—but we'll make sure it's not his last. 5. Bob Casebeer talks on the mountain goat. 6. The iron duke—Fay Clark—gives us a pre-ball pep talk. 7. Bill Worf takes a chance.

FRESHMEN: *This is a tree.*



First Row: Clarence Healy, George Stokes, Russel Svaren, Bill Kupke, Bob Moench, Melvin Yuhas. Second Row: Monroe DeJarnette, Chuck Waterman, Dick Strong, Roscoe Herrington, Klas Fenell, Glen Thoreson, Ralph Emerson. Third Row: Darrel McCracken, David Greeson, Rex Barkhuff, Bryce Rumph, Larry Berkove, Richard Hamilton, Earl Dedman, Lee Vercammen, Wallace Hoffman, Wayne Wilde. Fourth Row: Howard Johnson, Dale Karkanen, Jim Clinkingbeard, Bob Bennett, John Staley, Bob Fiede. Insert: Bob Duval, Freshmen Representative.

SOPHOMORES: *This is a pine tree.*



First Row: Vern Thompson, Ted Marchie, Dale Robinson, Norman Knapp, John Stearns, Russ Drabbs, John McDougal, Bob Damon. Second Row: Charles Kern, John Brinkerhoff, Bob Nelson, Bill Dockins, Bert Morris, John Fields, John Warnke. Third Row: Harold Forsyth, Bill Worl, R. N. Gashwiler, H. L. Severson, I. L. Emerson, Ivan O'Neil, L. Armstrong. Fourth Row: Bob LaBonte, Joe Tholt, Maurice Wesen, Dick Carter, Joe Sieminski, Royce Satterlee, Dave Hughes, Edward Heilman, Ed Martinson, O. L. LaRowe. Fifth Row: Herb Hunter, Tony Gruba, Charles Pase, Tony Geis, Leslie Donovan, Harold Kuehn, Ed Bangle. Insert: John Miller, Sophomore Representative.

JUNIORS: *This is a ponderosa pine tree.*



First Row: Roger Fish, Dave Lane, Euel Davis, Pat Barden, Gareth Moon, Hushang Bahar, Dick Bauman, Jack Merkle. Second Row: Frank Cech, Chuck Simpson, Jim Furot, Ed Hillis, Gene Forister, Jim Barr, Don Durland. Third Row: Olga Cech, John Weber, Vern Sylvester, Edward Eggen, Bill Walker, Leon Cohen, Joe Zacek. Fourth Row: Harry Hermes, Bill Kincaid, John Verbeek, Joe Martinez, George Turcott, Rus DeGroat. Insert: Elmer Heisel, Junior Representative.

SENIORS: *Cut the damn thing down.*



First Row: Bob Morgan, Smokey Stover, Bob Molloy, Don Leaphart. Second Row: Ioe Saltzman, R. E. Baldwin, Ralph McAvoy, Abijah Cook, Bill Mlynek. Third Row: Norman Allison, Don Schofield, Morton Wood, Wes Ferguson, Bill Lockhart, Don Rogers. Insert: Lowell Asher, Senior Representative.



Initiation Paddle

INITIATION DAY

The usual friendly, informal feeling was surprisingly absent at the second club meeting of the 1947-1948 school year. The majority of those present were dressed in what obviously were their oldest and warmest clothing, and the chest of each person so dressed was adorned with a green oak leaf. They gathered in small groups talking nervously in low tones.

Yes, it was initiation night, and each neophyte, decorated with the order of the oak leaf, had heeded the upper classmen's warning to wear warm, rough, field clothes.

The meeting was called to order and current business quickly dispensed with. President Lockhart turned the meeting over to Chairman John Miller who asked Dean Davis for a few words to welcome the aspiring tim-

ber beasts. Then the iron duke himself, Fay G. Clark, took the speakers rostrum. He told a few of his inexhaustible stock of hilarious stories, and then in a more serious vein gave a verbal sketch of the club's history and what was expected of the members. He presided over the first official act of the initiation, introducing Bertha, the pct-on saint of the Forestry Club. Each initiate then gave Bertha a resounding kiss, thus signifying his acceptance of the club ideals.

Chairman Miller again took charge and drew a map, which although sufficient for one knowing the area, was exceedingly sketchy for a stranger. It showed the location of one certain bonfire, somewhere on Mount Sentinel, near, or at the top, where a representative waited with the traditional paddle. Each initiate was to locate said fire and sign the paddle before returning.

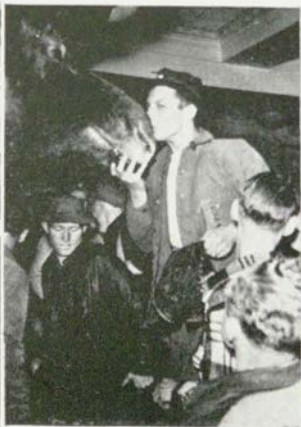
First, however, the group adjourned to the steps of the infamous lair of the lawyers, that den of iniquity in which no true forester would be caught alive. There Jack Schmautz took charge and very carefully explained the danger of associating with any member of the lowly brood inhabiting the place and briefly reviewed the age old forester-lawyer feud. Proper disrespect was then showered on the area, and at a signal the initiates broke into a run toward the lower slopes of the mountain and the climb to the fire, each man vying for the honor of being the first to put his name on the paddle.

Once at the fire, each initiate signed his name and was rewarded for his effort with hot coffee and doughnuts prepared by club cooks.

Thus fortified, the new members made the long descent without incident, and proceeded homeward with the comfortable feeling of really belonging.



Fay G. Clark reviews the Club history. Proper DISrespect for the lawyers.



A neophyte reverently kisses Bertha.



Fay tells one of his stories. Schmautz reviews the forester-lawyer feud.

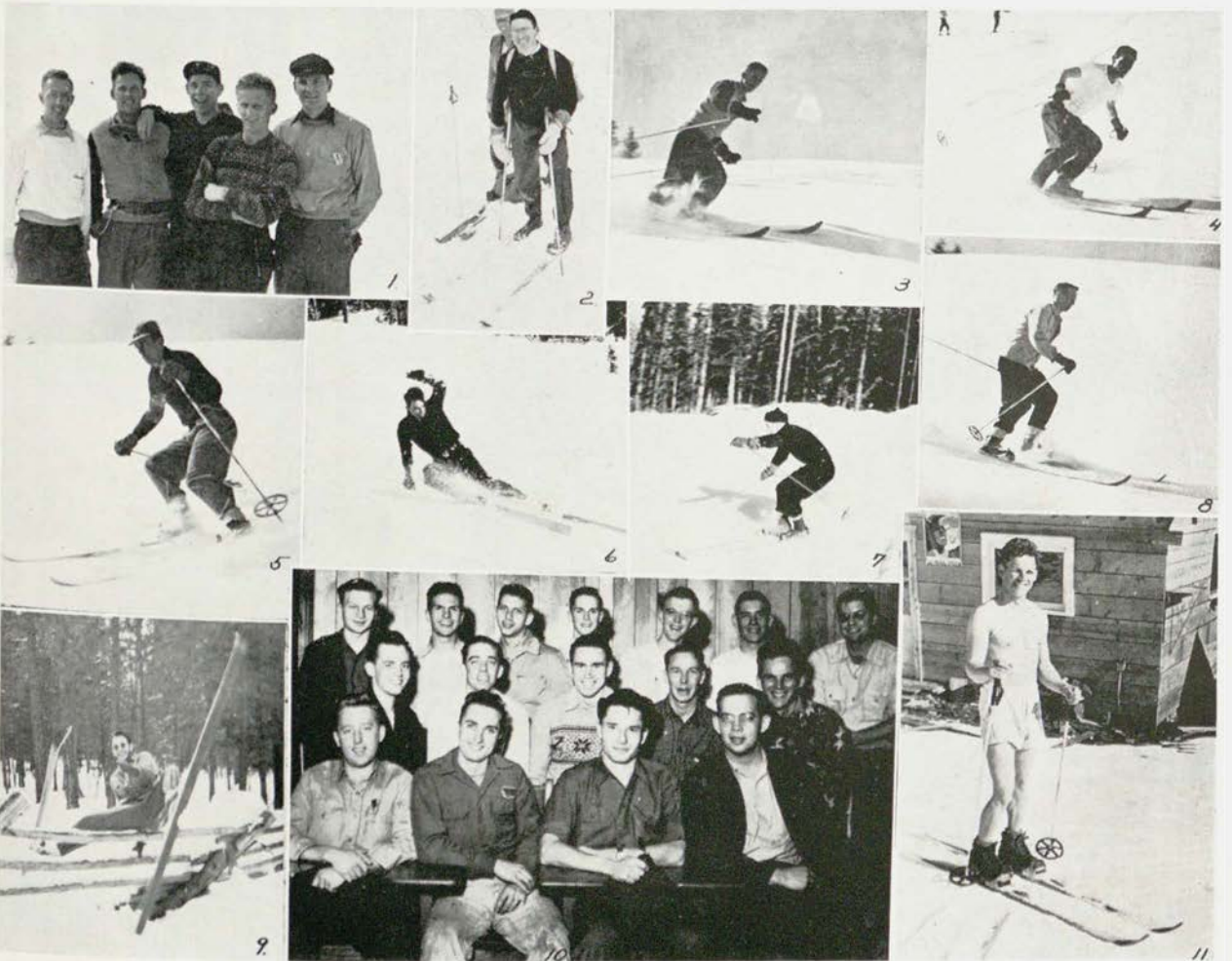


SOFTBALL TEAM—First Row: John Trickle, Robert Patton, Wes Pierce, Jim Dahl, Frank Sieminski. Second Row: Milton VanCamp, Don Leaphart, Franklin Cech, Keith Armstrong, Wes Brennen. Third Row: John Luger, James C. Smith, Manager.



BOWLING TEAM—First Row: Harry Hermes, Ted Marchie, Dick Bauman. Second Row: Bob Molloy, Captain; Ken Vanderwall. Third Row: Bob Duval.

TOUCH FOOTBALL TEAM—First Row: Dave Lane, Joe Martinez, Abijah Cook, Eucl Davis, Ed Hillis. Second Row: John McDougal, Dale Robinson, Ted Marchie, Bob Duval, Frank Cech, Ralph Emerson.



1. Forestry Club Ski Team, Jim Faurot, Jim Barr, Joe Saltsman, Bill Adams, Dan Poole. 2. Bit Stephensen looks over Roy Satterlee's shoulder. 3. Jim Barr. 4. Joe Saltsman. 5. Vern Sylvester. 6. Oscar Kvaalen. 7. Gordon Holte. 8. Dick Bauman. 9. Wes Ferguson. 10. Foresters' Ski Club. First Row: Jim Faurot, Ted Marchie, Bob Moech, Wally Hoffman. Second Row: Dale Robinson, Vern Sylvester, Royce Satterlee, Dick Bauman, Jim Barr. Third Row: Russel Svaren, Bob Duval, Bob Friede, John Staley, Dick Strong, Joe Saltsman, Eucl Davis. 11. Jim Barr, almost bare.

FALL HIKE

By JIM MUELLER

Backed by the dynamic push and supervision of Jim Faurot, the Foresters' fall picnic was another roaring success. The able assistance of Bob Friede, "Spud" DeJarnette, Royce Satterlee, Bill Lockhart and chili-makers extraordinary, Edna Campbell and Jean Hamre, were of no lesser importance in making this mid-October Sunday afternoon at Council Groves a highly enjoyable affair.

Nearly a hundred foresters and their dates attended and were well entertained with games of volleyball, football, baseball, badminton, horseshoe pitching and riflery. Sawing and tree estimating contests throughout the after-

noon and evening offered opportunity to many of the foresters to exhibit their exceptional brawn and brain.

When darkness or fatigue finally forced the picnickers to end games and contests, they eagerly attacked the plentiful repast of hot-dogs, chili, potato chips, pop and coffee.

The final phase of the days outing found everyone gathered around a lusty campfire for an evening of singing and story telling.

As the fire died low, the foresters, their dates and guests, were rounded up and loaded aboard the trucks and busses to return to Mis-soula.

SCENES FROM FALL AND SPRING HIKES—1. Hungry? 2. Line crasher! 3. Joe Tholt and Vern Thompson—Go! 4. DeJarnettes barbecue another. 5. Volley ball—out of bounds. 6. Bangle and Gashwiler going strong. 7. Colleen McCarthy and Olga Cech—true foresters. 8. Ummm good. 9. Ready to eat. 10. Don Schofield times another. 11. On your toes.



INTRODUCING THE FORESTRY WIVES CLUB



Left to right, First Row: Mrs. Bob Arnold, Mrs. Dan Poole, Mrs. Jack Merkle (Secretary), Mrs. George Turcott (Vice President), Mrs. Robert K. Molloy (President), Mrs. William R. Walker (Treasurer), Mrs. James E. Hester, Mrs. Dean A. Score and Mrs. Thomas E. Forister. Second Row: Mrs. Charles M. Dugan, Mrs. Leo A. Rhein, Jr., Mrs. Fred W. Prussing, Mrs. John W. Stearns, Mrs. Joe M. Martinez, Jr., Mrs. David Thatcher, Mrs. Andrew Arvish, Mrs. Herbert York, Mrs. Gordon G. Holte, Mrs. Bob Casebeer, and Mrs. Vern Thompson. Third Row: Mrs. Frank Kocer, Mrs. K. V. Watt, Mrs. Lloyd Weir, Mrs. R. E. DeGroat, Mrs. John Warnke, Mrs. Bob Kincaid, Mrs. Morton A. Wood and Mrs. Richard Carter.

The Forestry Wives Club, which was organized in 1946, meets twice-monthly in the Student Union Building for sessions of needlework, cards, and conversation. To encourage friendship among the women behind the men behind the "slip sticks" is the purpose of this club, and wives of all students registered in the department of forestry are eligible for membership.

At the beginning of fall quarter the girls who were active last year gave a tea to welcome the wives who were new on the campus.

It is the hope of the Wives Club that this new organization will maintain its place on the campus and will continue to foster friendship and fellowship among the wives of forestry students in succeeding years.

SILVIA MOLLOY.



PAUL STOMPS AGAIN

T-I-M-B-E-R-R-r roared a lusty voice and down came the first section of a huge log to start off the 31st Annual Foresters' Ball. For two successive nights a giant thirty-five foot likeness of Paul Bunyan towered over the entrance to his forest ballroom, welcoming all to M.S.U.'s finest dance of the year. And many were those to be welcomed, for more than 1800 happy revelers came to dance to the music of Johnnie Young's Spokane band in the largest simulated forest west of the Mississippi. Vivid memories of the old West were recalled by bearded loggers and ladies in crinolines.

A stoutly fenced corral served to save the chaperons from trampling, while in the far corner, a pair of swinging doors admitted thirsty dancers to the Gay Nineties saloon. It was all on the house, as the crew of white-shirted, black moustached bartenders drew round after round.

This festive gaiety climaxed nearly two and one-half months of hard work and planning by the entire forestry school. Just after Thanksgiving, the cutting and hauling of trees and boughs began and continued 'til mid-January. Over 2000 Doug Fir trees, the result of a thinning operation, and two truckloads of cedar boughs were brought in to convert the men's gym into a Forest Ballroom. No small chore was the painting of "Babe" the blue ox, of Paul's axe and saw, and of the 35-foot likeness of Paul himself. Before the doors opened at 9 P. M., February 6, nearly 4000 man-hours of work had gone into making the 31st, the best "Ball" ever. And a good share of the credit for making it so goes to "Chief Push" Don Schofield and Assistant Push Euel Davis. Planning, organizing, and checking to see that no detail was forgotten became almost a full-time job in the last weeks before the dance. New innovations this year were originated and engineered by Jack Merkle and Dave Lane. Out of Jack's ingenuity came the 35-foot Paul Bunyan at the gym entrance and to Dave goes the credit for the sawing record and the 16-foot log, sections of which announced the dance numbers.

More than fifty alums from all over the state were on hand to see and participate in the good time. J. M. DeJarnette was there, complete with tails, sideburns, and stovepipe hat. To Mrs. J. E. Snead went the "best-dressed" prize. Costume prize winners were Mr. and Mrs. Frank Cech, Miss Annabelle Nesbit and Wes Ferguson. Finest beards were exhibited by Frank Cech and Bob Dusenbury.

Long before prizes were awarded the many weeks of hard work were forgotten and when, a few minutes before midnight, the blue snow came swirling down there were only regrets that it had ended so soon.

JIM MUELLER.



Chief Push Don Schofield warming up to the job.



1. Tom Walbridge's nightmare to ease? the work.
2. Mort Wood and Joe Tholt take "5" before driving in.



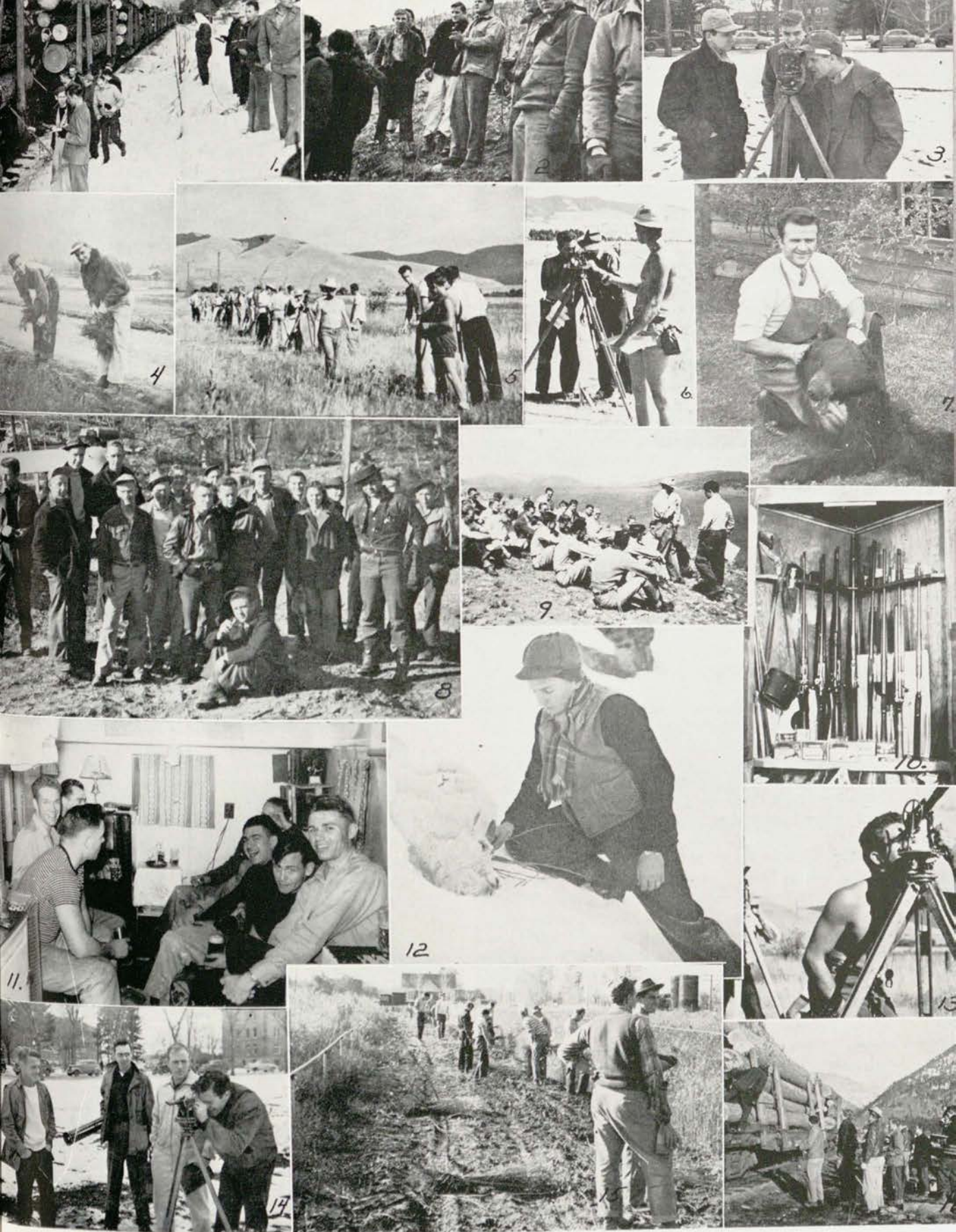
FORESTERS—B. D. O. C. (Best Dance On Campus). 1. Preparations for painting tracks: Bill Worf, Casebeer, Schmutz, Turcott, Kincaid, Gashwiler. 2. Colleen McCarthy and Joe Saltzman get a lecture. 3. Paul in all his glory. 4. Painting Paul's footprint in front of main Hall. 5. Mary and Don Leaphart. 6. Edna-the bull of the woods. 7. Dean congratulates Jack Schmutz—best costume Saturday night. 8. Many hands make light (?) work. 9. The entrance to Bunvan's bar. 10. The DeJarnettes—Monroe and Mother Evelyn. 11. Colleen McCarthy got up on the rafters too. 12. Meet Dean and Mrs. Davis. 13. McDougal polishes Bertha's antlers. 14. Joe Sieminski passes cedar to Johnny Brinkerhoff on the rafter. 15. Leaphart enjoys a coke (?)—Sammons looks grim while the bartenders, Craig Silvernale, Abijah Cook, Ed Hillis, Chuck Burke and Dale Fallon, look on. 16. Starting after trees. 17. "That" is bartender Dick Carter.



MORE FORESTERS—1. Saturday night winners. 2. Johnny Young's orchestra—good! 3. Signing Paul's memory book. 4. In Bunyan's bar. 5. Chow time. 6. Preparing to paint tracks. 7. Wives club members serve. 8. Dancin'. 9. Friday night winners.

FALL FORMAL





CRUISING AROUND!—1. Fay Clark's measurements class scales at Bonner. 2. Doc Lowell takes the "geologists" out. 3. Norm Knapp and Vern Thompson watch Walbridge check the bubbles. 4. Harris Wiltzen and Stratton tie a few. 5. Surveying en masse. 6. Carter dresses in comfort. 7. Schmautz got his bear. 8. Paul Brun's logging class at ACM Camp No. 8. 9. Joe Kramer on Waterworks Hill. 10. Don Schofield's armory. 11. Moon tosses a trailer party. 12. Bob Casebeer finds a dead mountain goat. 13. Vic Sladdon shoots the sun. 14. Bob Patton using the scope. 15. Work proceeds at the nursery. 16. Wes Castles and Fay Clark check scale while the class looks on.

THE ROLE OF PATHOLOGY IN FORESTRY

By CHARLES W. WATERS

Professor of Botany and Forestry, Montana State University.

Forest Pathology is often defined simply as the study of forest tree diseases. Such a definition carries with it the connotation that the limits of the field are prescribed by the ability of the forest pathologist to recognize disease symptoms, to evaluate effects upon the host and to be able to place the causal organism in its proper taxonomic position.

While the importance of this phase of forest pathology should in no wise be minimized, forest pathology means a great deal more than this. Doctor Meinecke, one of the outstanding pioneers in the field of modern forest pathology, has ably expressed this when he states that "Forest pathology embraces the study of those factors which cause damage or loss to the forest as an ecologic and economic unit. Its ultimate goal is the control of those influences and their reduction to the lowest level possible within the limits of practical forestry."¹ Thus, forest pathology becomes an intimate and inseparable part of silviculture and management.

The responsibility of the forest pathologist begins not only after the damaging agencies have made their presence felt in the forest but also in preventing the appearance of such damaging factors. Through an intimate knowledge of the relation of disease to cultural practice, he should be of invaluable assistance in such prevention. Too often in the past, the idea has been prevalent that before such damaging factors or agencies become of concern to the forester, they must be of such magnitude that extensive losses are incurred. In other words, a disease must assume epidemic proportions before it becomes worthy of serious consideration.

Today, we are beginning to realize that prevention rather than cure is the soundest and cheapest way to health, whether it be in the case of man, an agricultural crop or a forest stand, that once a disease has assumed widespread proportions, eradication or control becomes at least extremely costly, if not actually impossible. The history of human medicine has demonstrated this in a dramatic manner. With few exceptions during the past half century, in the more scientifically advanced nations of the world, have epidemics reached alarming proportions. Yet, there are undoubtedly as many potentially deadly pathogens in existence today as ever in the history of the human race.

Forest pathology, then, if it is to discharge its fullest responsibility in the field of forestry, must keep pace with developments in the fields of human, animal and agricultural pathology and strive to become a science of prevention rather than cure. Unfortunately, the problem

is more difficult in the case of trees than with wheat or corn. The propagation of resistant genetic strains, intensive applications of preventative sprays and dusts, selective fertilizing in deficient soils and well regulated rotation of crops, such as practiced in agricultural operations, are not yet within the economic reach of the forester.

Due to the long-time maturing of the forest crop with resulting low financial returns per unit of area, the weapons which the forester can use in a practical manner against disease consist largely of proper site selection and various cutting methods. Yet, if such measures can be applied without upsetting the natural composition of the forest, most endemic diseases can probably be held in check. It is only when, through the interference of man or other agencies, the natural balance between these native diseases and the tree hosts is upset, that these diseases may become of serious economic importance. The nearer natural forest conditions are maintained, the stronger will be nature's check on the diseases present therein.

The question might reasonably be asked at this time—is there a real need for disease control and how important is it in the overall picture of our forest economy? Referring to the Report of the Chief of the Forest Service for 1947, the following statement is made:

"During the decade, 1934-43, the estimated timber loss from insects and disease was 622 million cubic feet each year. Average annual drain from fire during the same period was 460 million cubic feet. This estimated drain caused by insects and diseases represents only the more obvious losses, usually occurring as a result of epidemic outbreaks. The total effect would be vastly greater were it possible to measure the damage caused by the normal activity of a myriad of disease and insect pests ever present in the forests."²

While no precise breakdown between the comparative losses sustained through insects and fungi is possible, it has been estimated that the latter accounts for a greater proportion of damage than the former. Thus, it would seem that a problem does exist and that there is a real need for a closer integration of pathological principles into silvicultural practice. The importance that is attached to plant pathology in the broad field of modern agricultural practice would make it appear that forest pathology has a similar, though possibly less effective, role to play in the field of forestry.

Forest pathology, in its modern interpretation, is a young science. When the first courses

¹Baxter, D. V., "Pathology in Forest Practice," Page 1, Chapter 1.
²Watts, Lyle F., Report of the Chief of the Forest Service, 1947.

were offered in the American forestry schools, they consisted largely of a taxonomic treatment of the pathogenes found on forest trees. Little attention was devoted to the disease implications. Later, some consideration was given to control measures but they were largely of the nature of an eradication philosophy rather than one of prevention." In recent years, forest pathologists have become convinced of the necessity for the latter, especially in the handling of our native diseases. They have pointed out the dangers that may exist in the artificial regeneration of extensive areas of pure stands without testing thoroughly the suitability of site and possible predisposition to disease. Attention has been called to the potentially harmful results of attempting to extend the range of tree species beyond that delimited by nature, unless preceded by extensive experimentation.

In Western Montana and Northern Idaho alone, there are at present several diseases which are demanding the immediate attention of the pathologist working in close cooperation with the silviculturist. The so-called pole blight of western white pine, the causal agency of which has not been determined, has assumed alarming proportions during the past decade. The Douglas-fir needle blight, which has progressively increased in virulence and intensity during the past few years, played its part in materially decreasing the output of Christmas trees during the past year. The increase in economic value of the lodgepole pine has brought to light the seriousness of the mistletoe problem. The host-parasite relation which exists in the case of this disease is imperfectly known and less is known concerning possible control by silvicultural methods. Examples such as these could be multiplied several-fold but these will suffice to illustrate the necessity for intensive study followed by effective control.

Introduced, or exotic, diseases present an even more alarming picture. Although we have already experienced several disastrous outbreaks, such as the chestnut blight, white pine blister rust and Dutch elm disease, it is likely that many more diseases of similar nature exist in various parts of the world and may be introduced at some future time with equally disastrous results. Increase in transportation facilities to all parts of the globe facilitates the ease with which such diseases may find their way into our forests.

Obviously, the solution to the problem of introduced diseases must be sought in a direction quite removed from that recommended for the native diseases. Here the answer must be found in the erection of effective barriers against their introduction into this country. Such barriers must consist of rigid quarantine laws with sufficient machinery set up to insure effective enforcement. A review of the history

of the battle against white pine blister rust, the chestnut blight and the Dutch elm disease demonstrates the relative ineffectiveness of attempting to eradicate a disease once it has become firmly entrenched. A better demonstration of the truth of the old adage, "An ounce of prevention is worth a pound of cure," could scarcely be desired, especially when the pound of cure becomes so highly problematical.

American pathologists should be sent to foreign countries to familiarize themselves with the life histories of the native pathogenes there so that they might be readily recognized once they made their appearance within our forests. If the life history of the Dutch elm disease organism had been fully known prior to its introduction into this country, several years' advantage might have been gained in the fight. To be forewarned (and informed) is to be forearmed. It is unlikely that many major battles have been won, the battle plans and lines of strategy of which were not drawn up until during the heat of conflict.

What measures then should be taken to make the services of the pathologist more effective in the field of forestry? First, and foremost, there should be more pathologists—men who have been conditioned in the fundamentals of plant physiology, ecology, soils and silviculture before pursuing their field of intensive specialization. Such specialists should then be made an integral part of the regular staffs of federal, state and private forest agencies. Further, a working knowledge of forest pathology should be a part of the education and training of every forester who shares any responsibility in the management of forest lands. Consciousness of disease and its intimate relation to the management of the forest stand should be as uppermost in the mind of the forester as is the consciousness of fire. The hazards of fire are no more to be feared than are the hazards of disease.

Finally, another quotation from the 1947 Report of the Chief of the Forest Service seems to sound the keynote of the whole matter when it states, "In the long run, good forest management, applied on a nation-wide basis, will be the best defense against most insects and disease."³

To this might be added the admonition that while nature is a generous and cooperative ally, she might become an uncompromising and relentless foe.

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³Watts, Lyle F. Op. Cit.

TIMBER BEASTS IN CAMP

It was a cool, clear morning in the middle of April last year when a bunch of stump jumpers started milling around the Forestry School in their woods clothes.

This group was the Timber Management and Forest Engineering classes preparing to leave for their annual spring trip. Arrangements had been made for us to do our field work on the logging operations of the J. Neils Lumber Company at Libby, Montana.

The Timber Management boys were to do some cruising and make growth studies on land the Company had cut over and is planning to log; while the engineers were to do road location work.

After a right coolish ride, we finally made it to the logging camp, which is at Warland, Montana. We bedded down in a Forest Service camp that was just across the river from the Company camp, and ate all our meals with the J. Neils crew.

That country was dandy for studying. Various companies have been logging in the area for quite a few years and there is still quite a bit yet untouched. It was on areas that had been logged that the boys were making growth and reproduction studies.

The Company at that time was planning to open up a new drainage and the engineers were to do some of the preliminary road location work. We had to locate quite a few private property lines in addition to the location of the road itself, and we learned a lot about the Company's methods as concerns such procedures. By the time we were through, we had a line located up the main drainage about as far as the timber went and a preliminary grade line a long way beyond that. The road has since been built and quite a bit of it is on our location.

After about a five week stay at Warland, we took off for Northern Idaho and Eastern Washington on a sight-seeing trip with Dean Davis. First to the Priest River Experiment Station, then to Spokane and the paper mill, and the White Pine Sash Door Company. Then on to Moscow, Idaho, and the area that was infested with the Tussock moth. Lewiston, Idaho, was next with the big sawmill. While down there we went out on the Potlatch Logging operation. Then back to the Deception Creek Experiment Station in the white pine country. We got a lot of good first hand information there because Dean Davis had had quite a hand in the building of the station and had started some of its first experimental plots and areas. Then finally, back to Missoula and a good hot bath and some pretty clothes for a change.

BOB DAVIDSON.



GRASS GREMLINS GO SOUTH

Reversing normal migration patterns, the Grazers went south for the spring. On the first senior range management trip to the Southwest since the war, Prof. Melvin S. Morris and five seniors toured over 5000 miles in four weeks, observing range, soil and wildlife management techniques. Students accompanying Prof. Morris were Oscar W. Ayers, Robert L. Casebeer, William Lukes, James E. Street and Jack E. Schmautz.

Much of the time Terra Firma was our bed and the starry skies our tent. Most of the meals were prepared bachelor style by the fellows with only five meals coming via the "greasy spoon." Evidently we acquitted ourselves credibly in the culinary arts for we all came back with our trousers tight at the waist line; especially Casebeer, who gained some 15 pounds and needed a periscope to see his shoe laces.

First stop was at Dubois Sheep Experiment Station to see good pasture management and intensive work on sheep breeding. On the way thru Utah we observed results of mud flows and their causes in Wasatch Mountains; overgrazed deer ranges on the Fishlake National Forest; and range management practices at the Desert Range Experiment Station.

With but brief stops at each place we continued on thru the game range of the Kaibab where snow drifts impaired our progress. Who said there is no snow in Arizona?

Gus Pearson's yellow pine plots at Fort Valley Experiment Station came next; then thru the picturesque Oak Creek Canyon to Zane Gray's famous Tonto Basin where we met Ranger Bruce Centerwald ('32) and family—a warm western welcome indeed.

At Santa Rita Experiment Station we saw brush removal and Forestry grads Ray Bitney ('25), Roy Canfield ('26) and Joe Wagner ('35). Practically a Montana Reunion in the southwest!

Desert reseeding practices took us through the Papago Reservation and then to San Dimas Experiment Station in the famous California evergreen chapparral.

Range management in the annual grass type at San Joaquin Experiment Station and the Ponderosa Pine type at Black's Mountain Experiment Station; and game ranges of the Modoc Interstate Deer Herd kept us occupied in California.

Then past Goose Lake and Abert Lake, both teeming with wild fowl to Missoula via Spokane and Coeur d'Alene, where we met the timber beasts on their swing through the northwest.

The trip was not all business however. We visited many points of interest, among them, Zion Canyon, Grand Canyon, Sequoia, Yosemite and Kings Canyon National Parks and the Montezuma National Monument.

We were treated most cordially every where and our sincere thanks goes to all responsible for the true hospitality shown us.

JACK E. SCHMAUTZ.



FORESTRY SCHOOL PRACTICAL COURSE

Last spring the Forestry Club advanced an idea which was designed to give forestry students at Montana State University a chance to familiarize themselves with the practical aspects of forestry which could be applied to their summer employment. This idea materialized into the "Forestry Club Practical Course."

A committee, advised by Mr. O. M. Patton of the Forestry School Nursery, was selected and the program was set up with guest speakers from the Forest Service and other allied concerned, acting as instructors. Films were shown in conjunction with these lectures.

Because of the brief time available for setting up the course, the curriculum was not as complete as it should have been; however, because of the competent instruction given in the courses offered I am sure that those who attended derived a great deal of value from the classes.

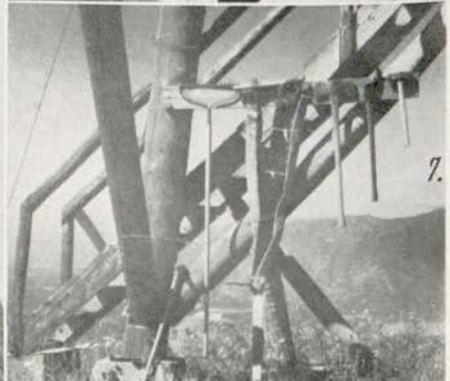
The demonstrations were given on Saturday afternoons throughout the quarter so as not to conflict with regular school classes and corresponding films were shown at the club meetings when possible. Classes completed during the course were: horsemanship and packing, demolitions, and care and handling of equipment. Films offered covered fire fighting, and telephone maintenance.

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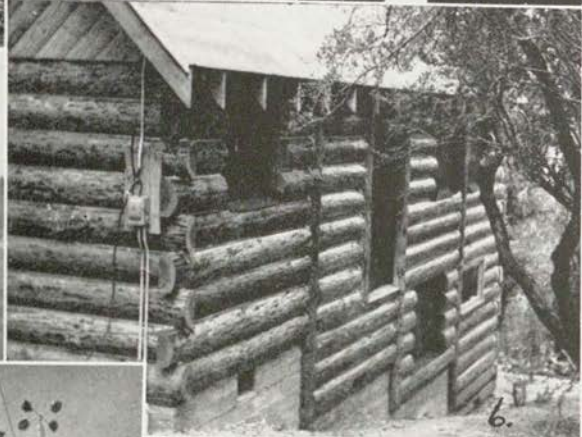
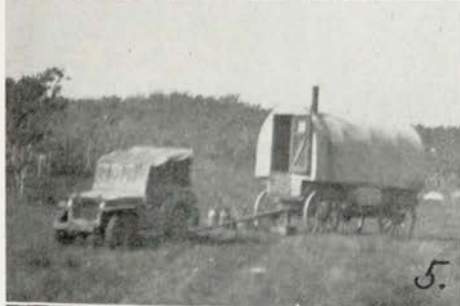


1. Major Kelly mantaining up. 2. Not a bad job!

ing, and telephone maintenance.



SUMMER WORK—THE LOOKOUT—1. The fire finder. 2. A real breakfast. 3. Thirsty? 4. Pat Bardon cooks his own. 5. Lowell Asher on a lookout deluxe. 6. On a rocky crag. 7. Tools!



SUMMER WORK—1. John Verbeeck and partner. 2. Ed Heilman. 3. Lowell Asher. 4. Joe Zacek. 5. "Sheep Jeep". 6. "The House That Fergie Built." 7. Harry Hermes and Jim Faurot. 8. And no parachute. 9. Ted Marchie and Clayton Fanslow. 10. Ted Marchie—tree trimmer. 11. Joe Saltzman and Albert Muchmore, '40, Ranger, Beaverhead Forest. 12. Ain't he cute—Howie Wesbecker and Al Gintner. 13. Jack Schmutz.

THE NEW LOOK

Instigated by Dean Kenneth Davis, the "New Look" has made its appearance at the Forestry Building on the MSU campus. An opening move to decorate the building was presented to the Forestry Club at a meeting this fall and a committee was appointed to formulate plans and push the program along as rapidly as possible.

Over the Christmas holidays, three paintings by "Shorty" Shope, famous native Montana artist, were mounted along the steps on the south wall just inside the entrance to the building. In addition, a display of lumber grades was attached to the walls of the hallway on the third floor. When the new library was moved to the former assembly room on the second floor, the room which housed the library previously on the first floor was converted to a large lecture room and a room in which to hold Forestry Club meetings. The enclosed glass shelves along the walls were left bare but present plans call for removal of some of the partitions of the cabinets and addition of larger glass panes so as to facilitate better vision for the onlooker. Behind the glass panels, there will be exhibits showing the various phases of forestry and a section will be devoted to Club activities. It should be stressed at this time that there will be a minimum of "museum pieces"—it is the intent of the staff to keep an up-to-date exhibition at all times, replacing older articles and techniques from time to time as more modern developments are accepted and practiced in forestry.

For the present, panoramic enlargements of photographs showing Montana's beautiful and unsurpassed hinterland are to be mounted on the north wall opposite the paintings. If ar-



rangements can be made with "Shorty" in the future, these photographs will be replaced with three more oil paintings to complete the set of six which were originally started in the 1930's.

Staff Forester O. M. Patton has been designated to head the committee and he represents and coordinates the efforts of the faculty. Undergraduate student members of the committee include Mrs. Olga Cech and Bob Molloy.

BILL MLYNEK,
Chairman.



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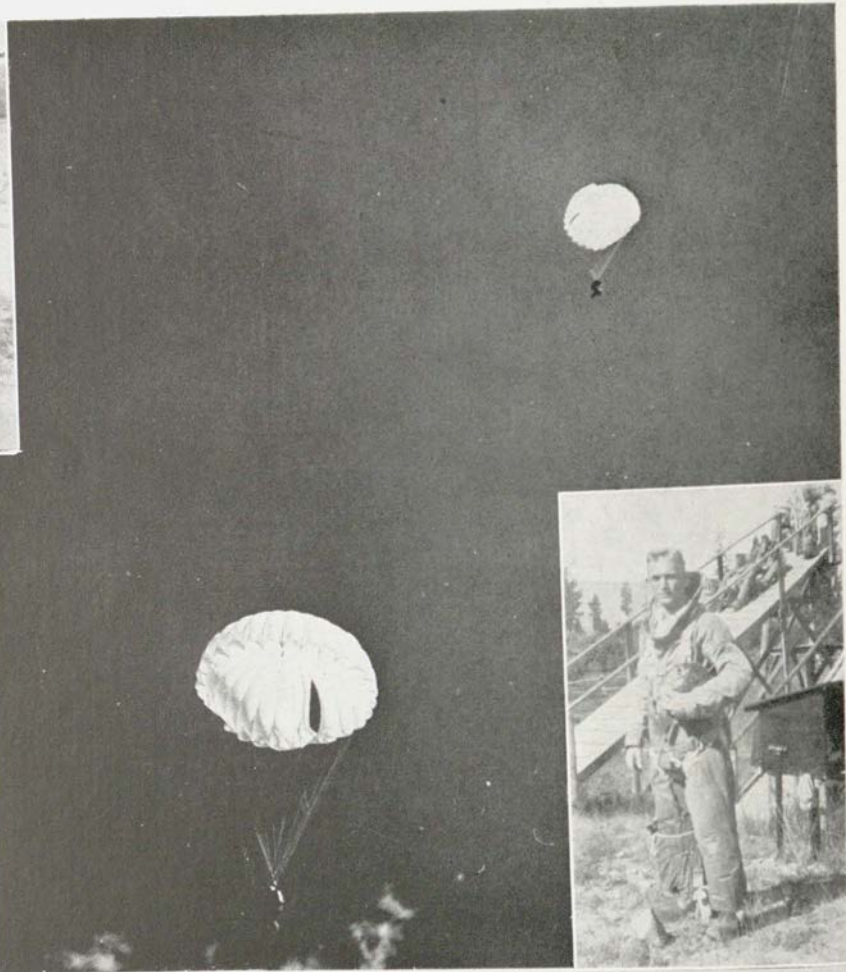
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Jackson, Chester W., '29, M.S. '33	Deceased
Jackson, E. Glenn, '40	Box 362, Red Lodge, Montana
Jansson, J. R., '38	U.S.F.S., Canyon Ferry Ranger Station, Helena, Montana
Jennings, Rudyard Clune, '41	Box 409, Millburn, New Jersey
Jensen, Chandler V., Bot. '34	Redmond, Oregon
Johnson, August Orlo, '41	Box 372, Idaho Falls, Idaho
Johnson, J. W., '29	Address Unknown
Johnson, J. William, '38	Box 321, Plains, Montana
Johnson, Roy A., '40	Box 37, Dewitt, Iowa
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Kibler, Fred C. Jr., '40	Home: Box 171, Jordan, Montana
Knutson, Alton Leonard, '41	Home: Box 7, Devon, Montana
Kohner, William G., M.S. '20	Professor of Forestry, John Muir Junior College, Pasadena, California
Kuziol, F. C., '24	c/o U.S.F.S., Salt Lake City, Utah
Krause, Paul A., '39	c/o U.S.I.S., Fort Duchesne, Utah
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Krueger, William C., '41	519 West Babcock, Bozeman, Montana
Kumler, Charles G., '27	Bruns Gen. Hosp., Ward C-23, Santa Fe, New Mexico
Lambert, Lahman, '24	2717 Chestnut St., Camp Hill, Pennsylvania
Landt, Eugene F., '40	Madison, Laboratory, U.S.F.S., Madison, Wisconsin
Lansing, Harold, '16	Deceased
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Lepley, Thomas Carson, '46	Butler, Wisconsin
Lewis, Kenneth, '39	Lavina, Montana
Lewis, Harold, '37	Killed in action, 1943
Lewis, Stanley H., '39	Lavina, Montana
Lewis, William H., '42	318 S. 4th St., Alhambra, California
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Loucks, John Thomas, '40	Hecla, South Dakota
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Lukes, William P., '47	920 Fifth Ave. South, Great Falls, Montana
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Lynch, Donald W., '39	712 N. 4th Ave., Sandpoint, Idaho
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Muchmore, Albert F., '40	Wise River R. S., Wise River, Montana
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Muhlick, Clarence, Bot. '33	Botany Department, University of Washington, Seattle, Washington
Murchie, Archie A., '31	MacKay, Idaho
Mullen, John O., '46	Jerome, Arizona
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Myers, Robert, '36	c/o S.C.S., Chamberlain, South Dakota
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Pfister, Ernest J., '41	Killed in action, 1945
Phillip, Milton F., '40	Deer Lodge National Forest, Philipsburg, Montana
Phillips, Floyd, '30	U.S.F.S., Woodland Park, Colorado
Phillips, Lewis I., '40	2120 N. Puget Sound Ave., Tacoma 7, Washington
Piatt, William R., '40	2120 N. Puget Sound Ave., Tacoma 7, Washington
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Plummer, William H., '40	Killed in action, 1944
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Pool, Clifford, '38	Box 163, 931 N. 4th(Springfield, Oregon
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Fowers, Gordon Irl, '42	Northern Cheyenne Agency, Office of Indian Affairs, U.S.D.I., Lame Deer, Montana
Preston, John C., '26	Supt., Mount Rainier National Park, Longmire, Washington
Preston, Phil, '39	Ontario, Oregon
Preuss, William, '38	Address Unknown
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Quam, Alden Norris, '38	Address Unknown
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Rudolph, Rosser, '30	Office of Indian Affairs, Merchandise Mart, Chicago, Illinois
Running, Morris, ex. '32	Deceased 1946
Russell, Harold, '26	S.C.S., Portland, Oregon
Sadasuk, Jacob Jack, '31	Address Unknown
Sanderson, J. Everett, '45	Magee Ranger Station, Coeur d'Alene National Forest, Coeur d'Alene, Idaho
Sandvig, Earl D., '23	1681 Quebec, Denver, Colorado
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Spaulding, Clarence K., '28	Forest Supervisor, Gainesville, Georgia
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Stephens, Virgil, '34	Burro Mountain Ranger District, Meeker, Colorado
Stephenson, Albert Dale, '35	Pine Ridge Indian Reservation, Pine Ridge, South Dakota
Stevens, Terrill D., '36	Head Dept. of Forestry Alabama Polytechnic Institute, Auburn, Alabama
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Underwood, Habert E., '40Address Unknown
Valderrana, Felipe, '22Address Unknown
Van Bramer, Glenn, '46 (Degree granted posthumously)Killed in action, 1942
Van Meter, Thomas, '26601 Ford St., Missoula, Montana
Van Winkle, Harry H., '27c/o U.S.F.S., Jackson, Wyoming
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Venrick, John W., '4281 South Warren, Helena, Montana
Vierhus, Louis M., '29Address Unknown
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Wardell, Malcolm Sterling, '47Canyon Ferry R. S., Helena National Forest, Helena, Montana
Warg, Samuel A., '38 MSFir Manufacturing Company, Myrtle Creek, Oregon
Warren, Cameron James, '41Koessler Warren-Lumber Company, Missoula, Montana
Warner, Neil G., '28Deceased
Watters, Billy, '38421 Woodworth, Missoula, Montana
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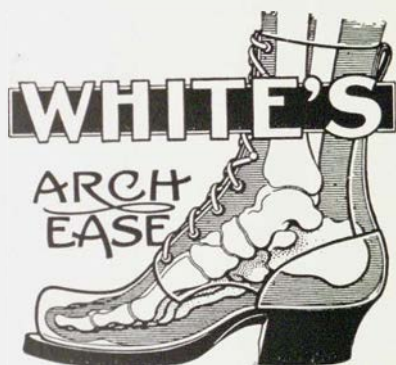
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Wheatley, Howard, '39Address Unknown
Whilt, James W., '40Missoula Park Commission, Missoula, Montana
Whisler, F. H., '15Deceased, 1943
Whisler, Harold, '20Deceased
Whitaker, Jocelyn, '14Address Unknown
Whitaker, Richard, '33Address Unknown
White, Jack C., '33c/o S.C.S., Russerville, Arkansas
White, Wellington I., '18Deceased
Wilkie, Stephen, '36, '38 MSRosebud, Montana
Williams, Dick, '39Box 295, Steele, South Dakota
Williams, Ross A., '21Regional Forester, Soil Conservation Service, Lincoln, Nebraska
Wilmsen, Clinton G., '40Killed in action, 1944
Wilson, James E., '47County Agent, Superior, Montana
Wolfe, Kenneth, '212847 N.E. 30th, Portland, Oregon
Woolfolk, E. Joe, '32Division of Range Research, U.S.F.S., Washington, D.C.
Yarlett, Lesis L., '42S.C.S., Pleasanton, Texas
Yochelson, Albert, '29c/o G.L.O., Phoenix, Arizona
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