

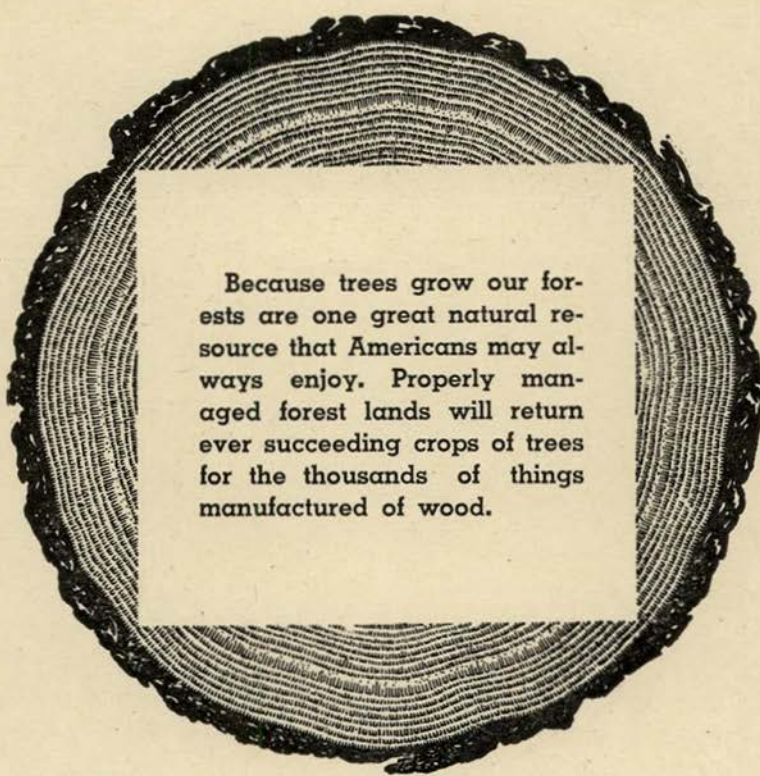
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VOLUME XXX 1948

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Because trees grow our forests are one great natural resource that Americans may always enjoy. Properly managed forest lands will return ever succeeding crops of trees for the thousands of things manufactured of wood.

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The forest industries of America, believing that through knowledge of forest management our nation may always enjoy the blessings of adequate forests, endorse and support "Tree Farming." The lumberjack is a farmer and realizes that through the practice of good forestry we may make full use of our timber resources while providing new crops of trees for tomorrow.

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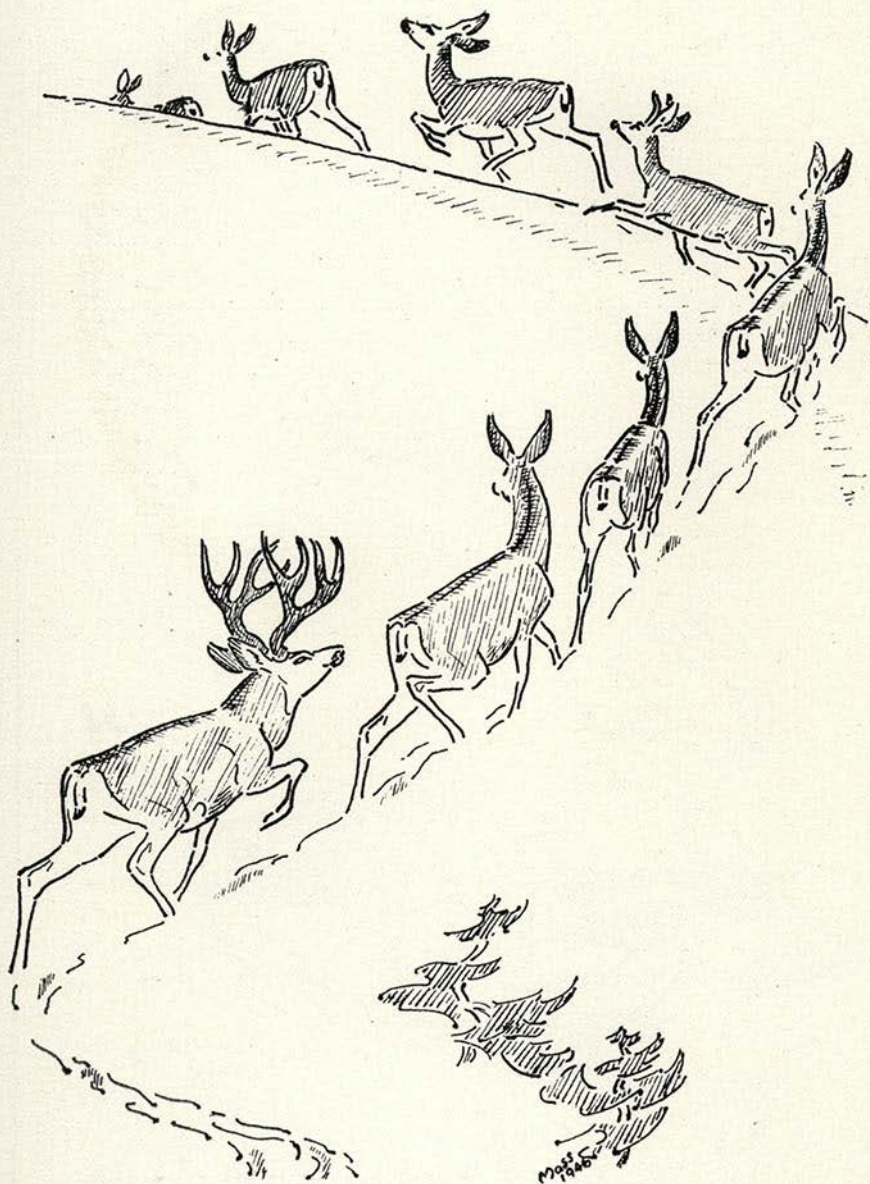
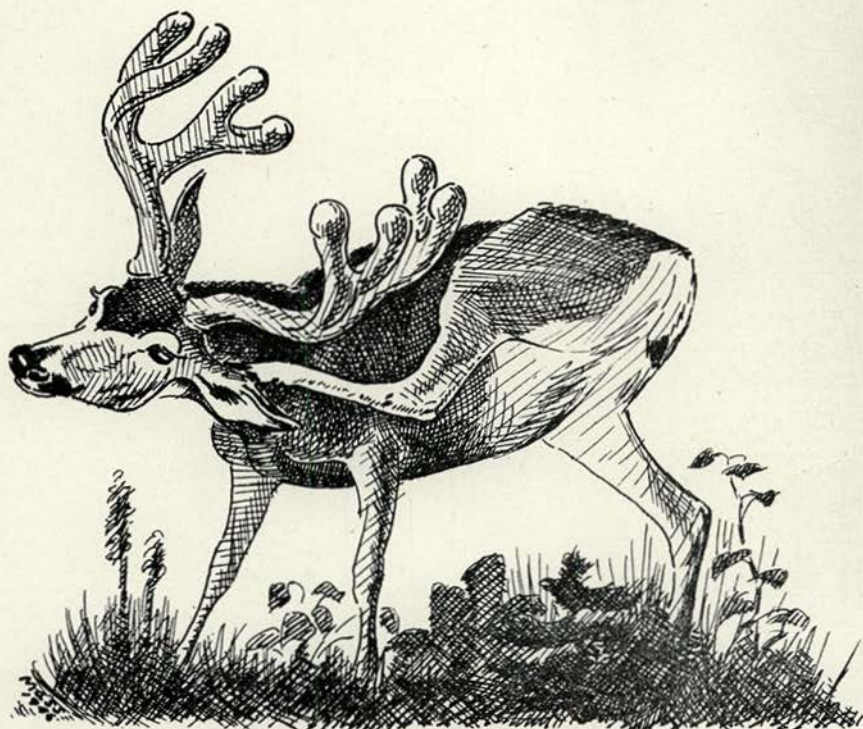


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Dedication

We dedicate this 1948 Idaho Forester to the newly organized Idaho Cooperative Wildlife Research Unit. Establishment of this unit has culminated over eight years of effort by Dean Jeffers. It marks a fine spirit of cooperation between the Fish and Wildlife Service of the U. S. Department of the Interior, the Idaho Fish and Game Department, the Wildlife Management Institute and the School of Forestry of the University of Idaho. Sportsmen and nature lovers of the state are particularly pleased to know that scientific research will be applied to Idaho's increasingly acute wildlife problems and that the training of wildlife technicians will be greatly enhanced. We are proud to welcome the wildlife research staff into the forestry family.





The 1948 Idaho Forester

These are strangely unsettled and busy times. Aftermath of war, the urge to get done quickly those things which have been delayed, housing shortages, family responsibilities, inflation and many changing conditions—all tend to make more complex the task of living, going to school and getting extra jobs done.

A little later than usual this year, the Idaho Forester got off to a reasonably good start and things appeared to be progressing normally until the editor dropped out of school to improve the personal financial picture. The end of school in early June found the Forester not yet ready for the publisher. Some of the stalwarts, however, had seen to the getting of sufficient advertising to assure publication of the annual. They worked diligently to push the Forester along.

Many others contributed time and energy to the various tasks of gathering information and planning the organization of the annual. Records of what they did were not kept, and credit cannot be given where credit is due. All who read the Forester, however, will appreciate that it cannot be put out without a certain amount of work and headaches.

It is hoped that you do find the 1948 Idaho Forester of interest and service.

The Idaho Forester Staff

Editors and Managers

Frank Hawksworth
Art Brackebusch
Bob Wakley

Copy Editors

George Frazier
Glen Youngblood

Photo Editor

John Vandenburg

Circulation

Tom Laurent

Advertising

Everett Green
Omar Campbell
Harry Howard

Faculty Advisor

"Doc" Deters

The "Pan" Handle of Idaho

If you wish to fish in a brawling burn
Where the rainbow lurk below,
Turn both your yearning feet, my friend,
To the 'Handle of Idaho.

If you wish to bathe in a placid pool
To a mountain lake you'll go;
Whose waters are a lure to all—
In the 'Handle of Idaho.

If you love to loll in a soothing sun
And feel your red cells grow,
You'll find such healthful healing
In the 'Handle of Idaho.

If you long for a rest in a cool, clean sleep
Where breathing brings a glow;
It's in the tingling mountain night
Of the 'Handle of Idaho.

But—there is one thing I must tell you, friend,
Wherever else you go,
You'll leave your heart behind you—
In the 'Handle of Idaho.

Faculty

The School of Forestry staff has grown rapidly during the year and now is larger than ever before in its history.

Five new staff members have been added during the year.

To replace Dr. Vernon Young the school has been successful in obtaining the services of Dr. E. W. Tisdale, formerly in charge of the range experiment station at Swift Current, Saskatchewan. Mr. Tisdale was born in Manitoba and received his early schooling there. His graduate work was done at the University of Minnesota, requirements for the doctorate having been completed this year. The Tisdales have two children, Julie and Walter. They all love the out-of doors and every good week-end will find them out on some expedition.

Mr. Charles Poulton is another new staff member in range management. His name will be found on the Xi Sigma Pi honor plaque for the year 1939. He is an Idahoan of long standing having been born at Oakeley. After graduation he worked for the Forest Service on research and administration. During the eight years of work with the service he covered regions 1, 2, 4 and 6 which is probably some kind of a record. Prior to his return to Idaho he taught at Montana State College. He is a veteran of the Navy. The Poultons have two little boys to help keep them busy.

Another Idaho grad returning to join the staff is Dr. T. S. Buchanan, succeeding to Dr. Ehrlick's former position. His name also is on the Xi Sigma Pi plaque, for the year 1935. To his B. S. from Idaho have been added an M. S. from the University of California and the Ph D. from Yale. Prof. Buchanan worked for a number of years with the Division of Forest Pathology, U.S.D.A.

Inducted into the Marine Corps, he served as an intelligence officer and was discharged in 1946 with rank of Captain. Prior to returning to Idaho he was employed by the Weyerhaeuser Lumber Co. as a forest pathologist. The Buchanans live in the University South Hills Homes housing project.

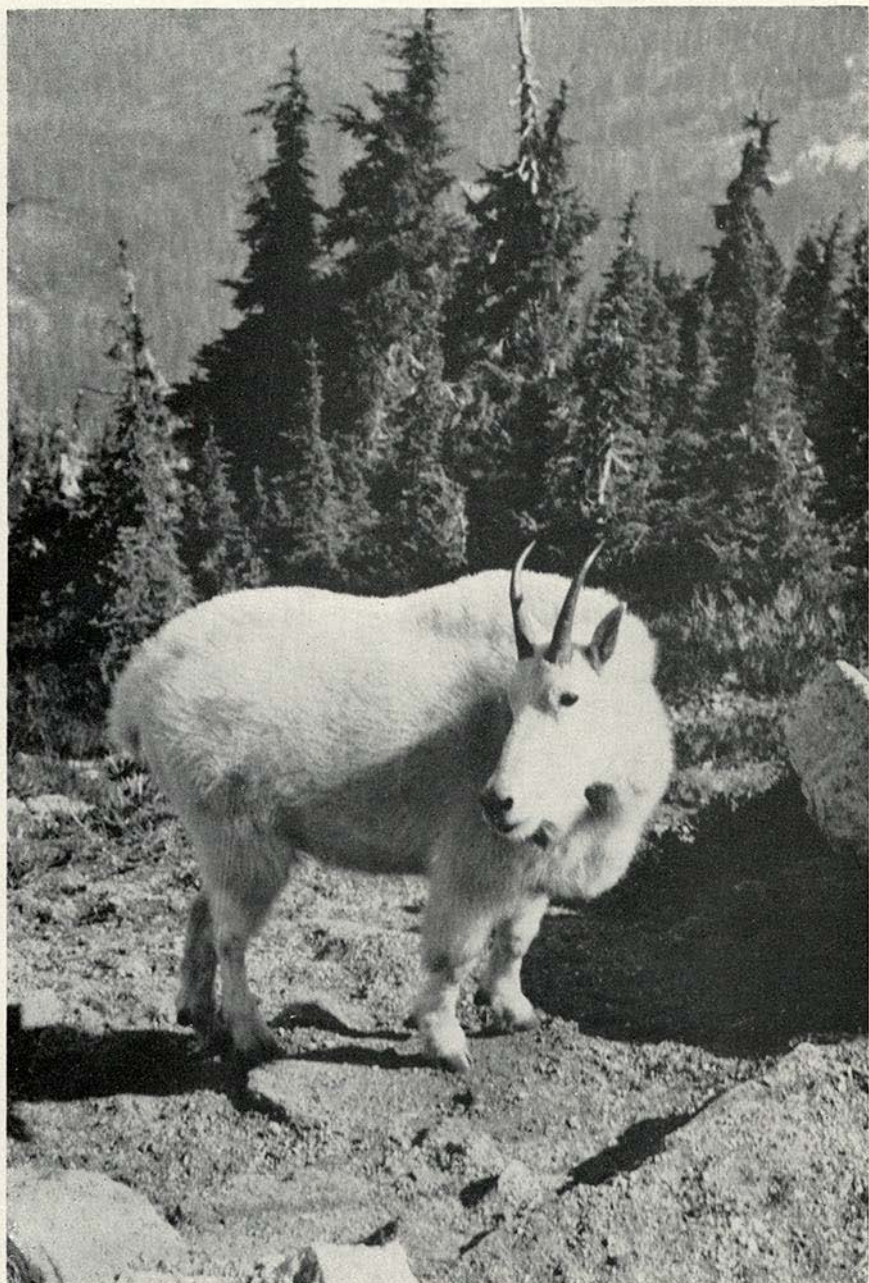
Dr. Paul Dalke has come to Idaho to head up the new wildlife research unit. He hails from Missouri and the Missouri Conservation Department, where he did important research work on the wild turkey. Dr. Dalke is particularly well trained for his work since he is a forester with the Ph D. degree in wildlife management from the University of Michigan. A fine program of wildlife research work has begun to take shape under his direction. The wildlife curriculum has been greatly strengthened and a strong graduate program is developing.

The Dalkes have four children and are situated in a new home on Hayes Street.

Another addition to the wildlife research unit staff is Mr. Thomas Burleigh who has had extensive experience with the Biological Survey and the Fish and Wildlife Service of the United States Department of the Interior. Recently he completed a monograph on the birds of Georgia, and last winter he was called on special assignment to study migratory birds in Puerto Rico.

The complete staff of the School of Forestry includes the members listed below:

D. S. Jeffers, Dean
Merrill E. Deters, Professor of Forestry
E. V. White, Professor of Forestry
Paul Dalke, Professor of Forestry
Ernest Wohletz, Assoc. Professor of Forestry
E. W. Tisdale, Assoc. Professor of Forestry
T. S. Buchanan, Assoc. Professor of Forestry
Everett L. Ellis, Asst. Professor of Forestry
Kenneth Hungerford, Asst. Professor of Forestry
Charles Poulton, Asst. Professor of Forestry
Vernon Burlison, Asst. Professor of Forestry
Thomas Burleigh, Asst. Professor of Forestry
Albert W. Slipp, Research Associate
Vernon Ravenscroft, Extension Forester
C. R. Stillinger, Pathologist
Franklin Pitkin, Nursery Manager



The Idaho Cooperative Wildlife Research Unit

Paul D. Dalke, Biologist, Fish and Wildlife Service

The Idaho Cooperative Wildlife Research Unit was formally organized on September 19 and 20, 1947.

Establishment of a wildlife research unit at the University of Idaho is the final result of many efforts which have been put forth over the years for more than a decade. The inclusion of the State of Idaho in a bill before the last Congress authorizing the establishment of four new wildlife research units, and the fine cooperation of the State Fish and Game Department, have made possible this move. Idaho was thus the thirteenth state to qualify for participation in the program.

The Cooperative Wildlife Research Unit program was initiated in 1935 under the leadership of J. N. Darling, then Chief of the Biological Survey. "Ding" Darling had stimulated cooperative wildlife research at Iowa State College and had convinced the State Conservation Commission of the need for wildlife research and training. When he became Chief of the Biological Survey, he was impressed with the need for trained men because of the rapid increase in wildlife conservation activities in both state and federal agencies.

Federal funds were secured largely through "Ding's" efforts. Dr. Ira N. Gabrielson, former Director of the Fish and Wildlife Service, personally organized the first eight of the units. Men trained at the cooperative units are now filling responsible positions in wildlife management, administration, research, extension, and teaching.

The cooperative agencies are: State Fish and Game Department; The University of Idaho; The Wildlife Management Institute and the Fish and Wildlife Service, U. S. Department of the Interior. The Idaho Cooperative Wildlife Research Unit is set up as a part of the Forest, Range and Wildlife Experiment Station of the School of Forestry. At the present time the staff consists of Kenneth Hungerford, Instructor in Wildlife Management; Thomas D. Burleigh, Ornithologist, Fish and Wildlife Service (part-time); Paul D. Dalke, Leader, and Biologist, Fish and Wildlife Service, and Mary M. Meagher, Secretary.

The objectives of the Wildlife Research Unit 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.

A good share of the funds contributed by the Fish and Game Department is used for fellowships for graduate students in the training program and in the investigations of big game, game birds and furbearers. The Fish and Game Department is looking to the University to train men in wildlife management for their technical staff. Fisheries management is a recognized need in the wildlife manager's training and the addition of a limnologist and fisheries man is anticipated within the next year or two.

The problems arising in connection with the management of big game herds in both northern and southern Idaho are in need of research and especially where big game may be occupying much the same range as livestock. The seasonal utilization of various kinds of forage, the tolerance of browse species to varying degrees of utilization as well as developing over-browsing criteria are some of the factors to be answered in the management of big game. Herd composition, reproductive success, and predator-prey relationships are equally as important.

The irrigated and grazing lands of southern Idaho, as well as the wheat lands of the Palouse country in northern Idaho present a number of problems with upland game birds. A pheasant survival study has already been started in Latah County in cooperation with the Fish and Game Department's Biologist, Mike Throckmorton, with intensive work on and in the vicinity of the University farms. A study begun by Kenneth Hungerford before the establishment of the Unit on the ecology of ruffed grouse on cut-over white pine lands is now in progress on the school forest in the Moscow Mountains.

There exists in Idaho today a variety of big game, upland game birds, waterfowl, furbearers and rodents unequalled by any state of similar size, topography and ecological conditions. Because of the wide range in altitude and consequent variation in amount of precipitation, a diverse flora has developed. The zones of vegetation are recognized. At lower elevations and in the southern part of the state, sagebrush-grass, wheatgrass-bluegrass, fescue-wheatgrass, mountain mahogany and juniper-pinon pine predominate. The higher elevations throughout the state support such vegetative zones as ponderosa pine, douglas fir, cedar-hemlock, spruce-fir and the alpine or highest zone. Many of our game species and furbearers are found definitely associated with one or more of these zones of vegetation.

The scope of wildlife research in Idaho is therefore broad and the management problems diverse. It is the job of research to seek out the unknown or little understood relationships of our plants and animals and apply this knowledge to the management of our big game, furbearers and game birds.

The Wildlife Research Unit is in temporary quarters on the third floor of Morrill Hall, but by summer permanent quarters on the fourth floor should be available. Four offices, a laboratory, and a museum room will then be occupied by the staff and students.

Growing Space Ratio As Related To The Form And Development Of Western White Pine.

DALE L. ARNOLD

The amount of growing space available to a tree has important bearing on its form and development throughout life. Regulation of relative growing space through thinnings is the primary means the forester uses to control form and rate of growth so that the resulting product will yield the greatest net financial return. Little specific information is available on the growing space requirements of western white pine when growing in less than full-stocked stands. Still less is known of how the species develops under varying conditions of relative growing space.

Growing space ratio, defined as the quotient of crown spread in feet divided by D.B.H. in inches, is a measure of the relative growing space available to an individual tree growing in a closed stand. The ratio is closely related to basal area per acre and any given growing space is equivalent to only one value of basal area per acre.

To gain an understanding of growing space relationships in normal stands of western white pine, average stand diameter and crown spread (spacing) for various ages and site qualities were calculated from normal yield tables. When graphed on cross section paper growing space ratio curves defined by the pairs of measurements proved to be a series of parallel straight lines, one for each site quality, Figure 1. An inspection of the curves showed that in normal stands of western white pine the growing space ratio was approximately the same for all sites at any given age but that the ratios for poor sites were much lower than when stands were compared on the basis of average stand diameter.

Normal yield tables show a maximum cubic foot volume increment for western white pine stands at a little more than 100 years of age. If maximum volume increment is the criterion of site utilization, normal western white pine stands utilize the site at a maximum when the growing space ratio reaches .90, the ratio for all sites at 105 years.

Growing space relationships and tree characteristics were studied in four white pine stands in north-central Idaho. Two were 50 year old pole stands, one was a 37-year old plantation, and the fourth was a free-growing sapling stand about 15-20 years old.

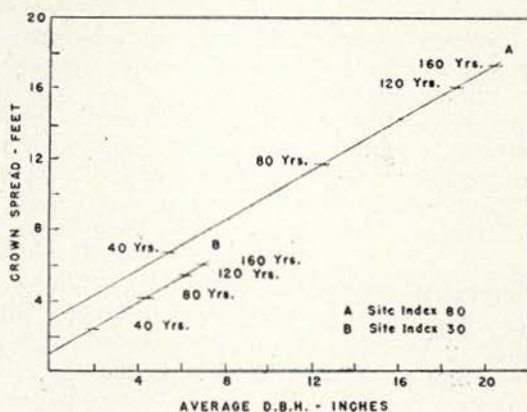
Statistical analysis of the relation between D.B.H. and crown spread showed a high correlation between these measurements. The highest correlations were obtained in the free-growing sapling stand and in the plantation, pointing to the possibility that the size of the correlation coefficient is an indication of expression of dominance. High coefficients would be associated with a poor expression of dominance and low coefficients with a good expression of dominance.

The relation of current growth rate measured in rings per last inch of radius to growing space ratio was analyzed statistically. Correlations were significant although less than half the variability in rate of diameter growth could be explained by variations in growing space ratio. Also the tendency in the three older stands for fast growth to be associated with high ratios was reversed in the one very young stand. A curve patterned after curves of the two natural pole-size stands passed through the point defined by the growing space ratio and rate of growth of normal stands of the same age and site class. A set of curves, one for each site index, was prepared showing the rate of growth to be expected for any growing space ratio at 55 years. Each curve passed through the point defined by growing space ratio and growth rate of normal stands on that site, and the slope of the curves was the same as found from analysis of the data from the two older natural stands.

Analysis of the relation between growing space ratio and per cent of live crown failed to show any significant correlation. On the basis of the data it may be said that western white pine is able to maintain fairly good crown lengths even when crowded from the side.

Per cent of live crown like growing space ratio showed significant correlation with rate of diameter growth. Analysis of the samples showed that a 65 per cent live crown length would give a growth rate of 2 inches in diameter per decade, whereas a 40 per cent live crown length would give a growth rate of 1.5 inches in ten years.

In an effort to obtain an expression of tree crown that was more closely correlated with diameter increment a crown area index was devised by multiplying crown spread by length of live crown. An analysis of the relation between this index and basal area increment showed highly significant correlations to exist. Values of the regression coefficients for all four samples were similar, lending additional weight to the theory that crown area index might be a reliable measure of rate of growth. An average curve determined from data of the three older samples was drawn and from it a table compiled showing values of the crown area index required for varying rates of diameter growth by diameter classes.



The Ascent Of Sap In Plants

Copyright 1945

By A. Verbascum Thrappsus

PREFACE

One evening, after the authors had been poring over the voluminous legitimate literature on the subject, they chanced to turn to those lesser known authors mentioned in the following paper. One thing led to another and the following is the result. We agree that it is somewhat ludicrous in places and there are no doubt results of an over application to the subject. (Lord Schenley, that is).

We feel that after wading through a series of papers which, of necessity, must be more or less repetitious, a short "break" in the form of this highly original article might furnish the reader with a little relaxation. Any man saddled with the irksome task of trying to teach a group of Foresters **anything** is entitled to a break once in a while.

Sap Rises in Plants

Scientists have been interested in this phenomena for many years, and during this same period students have voiced the question: "Who gives a Darn?" Undaunted by this opinion, the valiant workers in the field have gone forward in their work until it is safe to state without fear of contradiction that at the present time more library space is wasted on this subject than any other. In order to save the reader time the authors have combined 5,000 of the more highly regarded volumes into these few pages. This is perhaps more detail than is warranted, but what the heck, the government is paying for everything nowadays.

It was believed for many years that Adam was the first sap to ascend a plant. However, Chuck Darwin made a monkey out of him, and since that time the Adam family has been reduced to selling hats.

DiMaggio covered a lot of ground in this field, and his work should merit some consideration. He took the work of Freud as his basis, and stated that there is an inhibition in the cells surrounding the xylem which cause them to be frustrated. This frustration results in spasms which send the water up in plants. He proved by showing that dioecious plants are quite contented; whereas it is only the monoecious plants which have to seek outside interests to utilize their extra energy. Baumholtz (who did most of his work in center field) sums this up very well by stating, "Ich weiss nicht was soll es bedeuten." Maximov did his best to foul things up. He is of the opinion that explaining the ascent of water by only one theory was a capitalistic plot to concentrate power in the hands of a few, and promises that after the Revolution every man shall have his own theory.

The best explanation of the ascent of water in plants is contained in the "Duodiscontentional," or "Old Oaken Bucket" theory, first published by Wolfgang Von Smuck on July 16, 1932, a day that will live in infamy. Von Smuck, Ph.D. (Chicago University, 1901), Fellow of the Royal Society of Botanists; President, Distinguished Danish Dend-

rologists; Charter Member, Alcoholics Anonymous, based his theory on his intensive study of four roses. This theory explains all of the intricate workings of the mechanism responsible for the rise of water, and it is only proper that we dwell on it in some detail.

After his work with the four roses it became clear to Wolfgang that the explanation for the rise of water lay with the little people. To follow this theory to its conclusion, Von Smuck gathered around him a distinguished company of bonded co-workers—Lord Calvert, Sir John Schenley, Mattingly & Moore, and Hiram Walker, who was only eight years old at the time. With this splendid team he couldn't miss, and after the short period of two months he emerged from his lavatory drunk with joy—to tell the following story:

The little people who are responsible for the rise of water can be divided into three groups: the leprechauns, who work in the roots; the gremlinites, who work in the trunk and stem; and the stomatites, who work in the leaves. All three groups are banded into strong unions with tightly closed bucket shops. Each group has its own specific job and cannot infringe upon the work of the others. The phenomena of wilting is easily explained as being merely a jurisdictional strike between unions.

The leprechauns of the root system have the strongest union, led by John L. Casperian, a stripling who rose to power and now rules the system with an iron hand. The hardest work in the roots is done by the leprechauns who carry water molecules in buckets from the soil particles to their co-workers who are waiting in the root hairs. In dry weather an effort is made to ease their exhaustive labor by extending the hair tunnels, but this often proves of little help, and there is a strong movement afoot at present to provide these workers with roller skates. The buckets then are dumped into reservoir cells. The cells on the upper side of the root hairs drain by gravity but the water on the under side must be pumped up, and there is often great dissension among the little people who work in the cellars. The layer of reservoir cells next to the central tunnels has been referred to as "Endodermis", by inexperienced investigators and the explanation of why movement through this layer is sometimes slow is merely that the faucets become clogged. Little difficulty is encountered if the reservoirs are kept well tanked and the workers well oiled. Atom powered tractorettes carry huge loads of water to the trunk of the plant. Lord Calvert has allowed the secret of these tractorettes to leak out, with "Floating Power" and hydromatic drives as direct results.

In the center of the trunk are many hollow tunnels which extend the whole length of the plant to the stem and branches. In these shafts are provided means for the ascent of water. Working with each system are the gremlinites of different classes. The Seventh class (or untouchables) are required to carry water in buckets up straight ladders the entire length of the shaft. The sixth class (or peasants) carry the buckets for short distances on leaning ladders. The fifth class, (Sadsacks) must pull the buckets up on ropes, and the fourth (yardbirds) have pulleys to aid them. The third (Serfs) walk up carpet covered spiral staircases (rest stops provided for passing

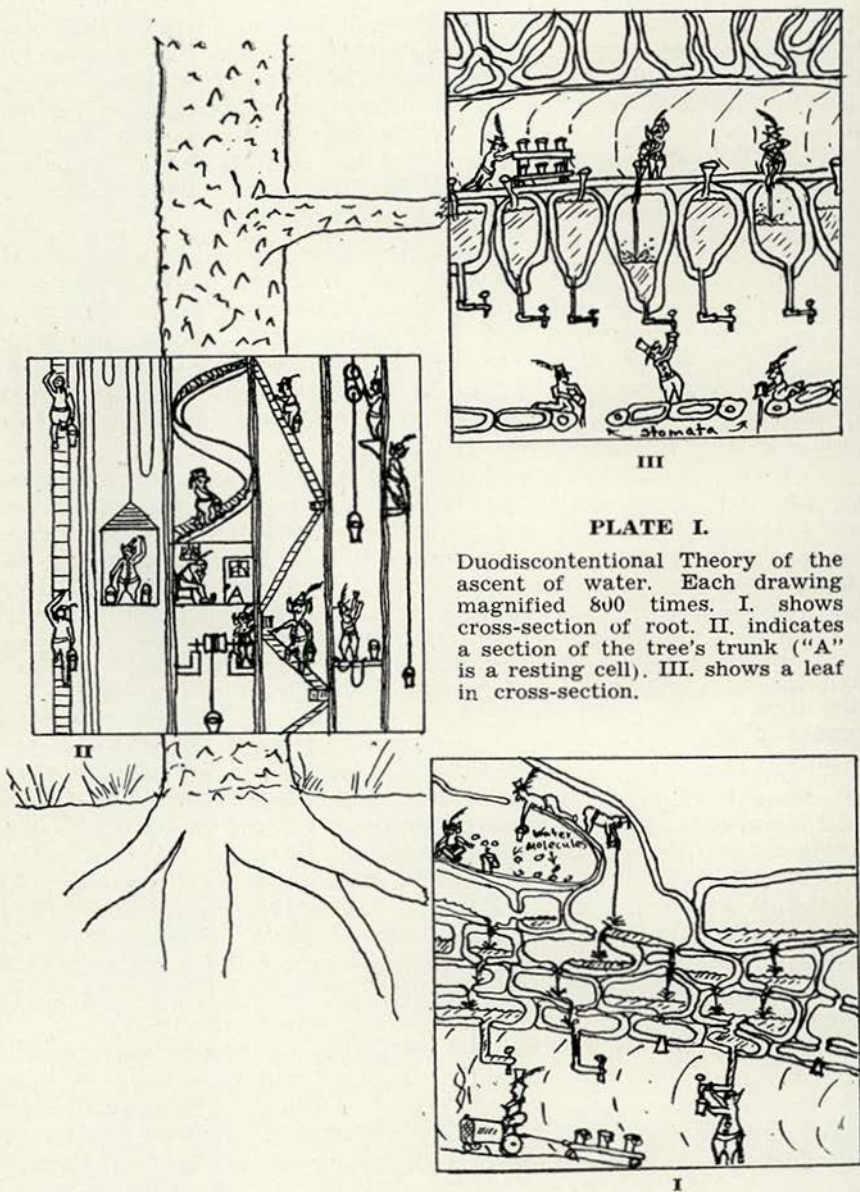


PLATE I.

Duodiscontentional Theory of the ascent of water. Each drawing magnified 800 times. I. shows cross-section of root. II. indicates a section of the tree's trunk ("A" is a resting cell). III. shows a leaf in cross-section.

water). The second (B.T.O.'s) are provided with wenchies, and the first (Chintzes) ride elevators. Breaking of union rules is punished by a drop in class, and should an untouchable (the poor fool) pause in his work he is banished to the Douglas fir region.

Great difficulties have been encountered with B.T.O.'s. Delays amounting to as much as two hours have been recorded in their work. Their only excuse is that they have been oiling their wenchies. Rooms are provided in each shaft, furnished with a chair for tired workers. These rooms have been termed "Resting cells".

The stomata in the leaves are controlled and operated by the stomatites (white collar workers). Carts are filled with buckets and are pushed along the stems by the little people of the teamster's union. A stomatite is stationed at the top of the palisade cells. He takes a bucket from the cart and pours the water in a spout. The palisade cells are provided with a faucet at the lower end and workers stationed by stomata draw water from there and pour it out. The explanation of why stomata are only found on the lower side of leaves is apparent. After all, the little people are only human! In certain plants workers are paid on a bucket-work basis and under conditions of high competition water is dumped out so fast that it clings to the leaves, and is known as "guttation" (from the phrase "He worked his guts out"). Since the little people dress only in G-strings, it is obvious that when the temperature drops they must stop their work. Hence no transportation in the winter. They hibernate during this period in the cambium layers where they rest and eat.

This is probably the best known theory of the ascent of sap in living plants, although it is of private opinion that water is frequently absorbed by the leaves, descends the plant by force of gravity, and passes into the soil—causing floods, accelerated erosion, primary successions, and kindred phenomena.

Should the explanation leave you with some question you had best consult the works of Calvert (either black or red label editions) or Hiram Walker for further information. And the joker is that after an evening spent with the above mentioned authors' works the whole system will become clear. Indeed if you really hit Calverts hard enough you may be able to see the little people in action.

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Graduate Students

Ten foresters were registered for full or part time study in the graduate school.

DALE L. ARNOLD, M. S. 1948

Dale came to Idaho on a Potlatch fellowship. Michigan State is his undergraduate school. He worked in the field of forest management, studying for his thesis problem, the form and growing space relationships of white pine. A brief of one aspect of this work has been written for the Idaho Forester.

STEELE BARNETT

Barnett was registered part time in the graduate school. He studied the application of the law of diminishing returns to forest rotations.

VERNON BURLISON

Burlison sandwiched in some graduate study in range with his teaching and extension work. He plans to devote the summer of 1948 to field work which will be the basis of his thesis problem.

MAX FEE

Max is another of the graduating seniors with so few requirements to complete that part time graduate work seemed desirable. His main interest was to get a start in forest management graduate work so that the degree would be easier to get when circumstances make it possible to take a year off for study.

VICTOR GRANADA

The fame of Dr. White's wood conversion laboratory reached to Paraguay to attract Granada to Idaho. He plans to complete the master's degree requirements under Dr. White by June 1949.

ROY HOELKE

Game management is Roy's primary interest. His research problem is concerned with Chinese pheasant management, but one might find him around the lab doing any of a wide variety of jobs, building up a broad base of experience and knowledge. He plans on getting the coveted M. S. in 1949.

JOHN KRIER, M. S. 1948

John stayed on after receiving the B. S. degree in 1947. Awarded the S.C.S. fellowship, he studied various ways of breaking the dormancy period in seeds of species useful in soil conservation plantings. Not satisfied with the M. S. degree, he has obtained an assistantship to work toward the Ph. D. degree at Yale.

RICHARD L. LINGENFELTER

Dick continued graduate study in range management for most of the school year. Opportunity for a civil service appointment with the range experiment station at Du Bois proved very attractive, and he wasted no time in reporting for duty.

JIM MATTOX

A Potlatch fellowship made it possible for Jim to work toward the M. S. degree with a range management major. In addition to his graduate work Jim assisted in the dendrology lab and performed various other duties around the department. He plans to get the M. S. in 1949.

CHARLES POULTON, M. S. 1948

Poulton worked as hard at studying as at teaching. Supplementing graduate work at Montana State, he finished the M. S. degree requirements in the field of animal nutrition under Dr. Kieth of the Animal Husbandry Department. His thesis was on the toxic effects of selenium.

JACK ROWE

Rowe hails from Texas where undergraduate work was completed at Rice Institute. He is working on some reactions in carbohydrate and polysaccharide chemistry. Naturally this study is under the direction of Dr. White in the wood conversion laboratory. The two year research program will lead to the M. S. in 1949.

GRADUATES OF THIRTY-FIVE YEARS AGO

Last year there was initiated a policy of presenting the graduating classes beginning with 1911. This year the class of 1912 would be scheduled for presentation. Unfortunately there were no degrees awarded in forestry at the University of Idaho in the year 1912.

Through The Year

With The ASSOCIATED FORESTERS



Summer Camp — 1947

BY DON BRISLAIN

Purpose—To separate the men from the boys, and from the standpoint of location, the men from the girls also, or so it appeared. (A mile and a half into town). We were welcomed into camp by a fresh thunderstorm that left as suddenly as it came—sixteen days later. The sun came out just as we finished our surveying course, but in spite of the weather, we all had our quota of turning points. In fact, Zorb darn near turned and went home to Cincinnati several times.

But surveying was only the beginning of a series of educational courses. We will all remember fire control—Hungerford roped off an area and we simulated fighting the fire which was raging within said area. After putting out the fire in nothing flat (that's right, nothing was flat—everything was uphill) we mapped the area and estimated the acreage and perimeter, getting results ranging from Kenyon's 0.0000015 acres to Mueggler's two townships. However, the able leadership of Walkley and Brackebusch made the task a much more pleasant one than we had ever hoped. These two boys were appointed fire bosses and wielded their power so diplomatically that they were both found hanging from a Pacific Yew that had no business being there anyway.



Forest Communities was another course which offered much. It was here that we were first exposed to the various zones. First there was ponderosa pine which gradually gave way to Douglas fir, which in turn gave way to alpine fir as we progressed upward into the stratosphere. Every step of the ascent was more thrilling than the last and we realized that as we neared the summit a constantly changing environment was displacing that previously encountered. At last we came to the ultimate—the acme—the peak of the forest types, all others having succumbed to altitudinal restrictions. Gone was the lordly ponderosa pine. Even king



alpine fir was gone—now what was next? What monster could survive an elevation as high as this, we thought as we plodded over snowy crevice and craggy cliff. What sort of indefatigable dendritic giant of the woods would now take its place as the prima donna of the woodland. At last we came upon it, with Dean Chandler catching the first glimpse—a dandelion.

Perhaps at this point some mention should be made of the camp facilities, especially after having read of the wilds of Elk Summit. Let's start at the kitchen—perhaps breakfast is being served. No doubt muffins are on the menu. Personally, I ate the menu, leaving the muffins for Ellis. Our lunches were better though—it was here



that we really found out just what George Washington Carver did for the peanut, and what the peanut did for us shouldn't happen to a dog. Supper was the real meal, however. Remember the steer that we got wholesale? We often wondered how they killed that thing. There surely wasn't a gun on the peninsula capable, we know. Rumor had it that the beef was really the famous McCall sea monster who wandered into Hazelbaker's tent one night, and Don, being a thrifty soul, devised an intricate trap which had for its bait the deadliest poison known to man—the bran muffin—which after being devoured swelled the intestines 300 times their normal size. But really, plaudits must be due Don Hazelbaker who did the finest job in the whole camp, and if ever thanks are due a man for a job well done, they are due Don. He thumbed his nose at rising costs and at the same time turned out food that was eaten with gusto at each and every meal.



every move. After looking at that sheep for four hours, the boys began to watch each other. Remember how you had to count how many blades of grass were eaten by that ram per minute per square foot per degree Centigrade—"per Burlison"—he was so tired of it all.

As summer camp ended, however, we all realized we had gotten a lot out of it. Not as much as the summer had drained out of us

Getting back to studies, let us now drift into Range Communities. It is here that you become plot happy—you can't make a move without laying out plots 6'x6'. One particular project in this connection that Int-Hout, Conard, and Graham will certainly never forget is the one where they had to enclose a sheep in one of those plots and watch his

perhaps, but as the poet says, "Lass das Vergange vergangen sein"—or "Long Live Ernie—may he never be overtopped."

A few criticisms could be heard as the students gathered refreshed and eager after the summer experience for the fall semester. George Lea thought it heartless of the school to send us down to McCall without first being taught that a nickel on "Double zero" does not guarantee a sustained yield. Even without a preparatory course in Biometry, however, several of the boys were seen to be pursuing significant figures during the course of the gay and carefree summer. As the typical student, Harry Wegeleben, summed up summer camp with the following sage remark, "It's like castor oil—a little goes a long way," which can be interpreted to mean, "We learned more about forestry in 10 weeks at McCall than in two years on the campus."



Forestry Week And Banquet 1948

April 26 through May 1 marked "forestry week" this year, and it was climaxed by the annual Forestry Banquet on April 29. To catch the public eye regarding forestry, wood products were exhibited in down town Moscow during forestry week. Every imaginable product of wood was selected and displayed, and much attention was attracted to the importance of forestry in our daily lives. Even Junior was attracted to the display, though, perhaps only because of the model train with its load of wood and wood products.

On Thursday night, April 29, the forestry students from the University and numerous foresters in the state, gathered at the Moscow Hotel for the annual banquet. Mr. George L. Drake, Manager of the Woods and Forestry Division of the Simpson Logging Company, located at Shelton, Wash., gave the feature talk of the evening. His subject was "Scandinavian Forestry," featuring the management of forest lands in Sweden. Mr. Drake's address was based on his trip to Sweden last summer and he gave a very interesting talk on Swedish practices in growing and harvesting Scotts pine and Norway spruce. Picture slides of Swedish management added to the understanding, as did colored slides on England and other scenic places in Scandinavia.



Woodchopper's Ball



LEVERETT CURTIS

The 1948 Woodchopper's Ball lived up to the traditions of former years. An abundance of greenery gave the Union an outdoor atmosphere and an aroma reminiscent of the deep woods.

Entering the ballroom one could notice a congested mass of humanity in one corner. Curiously edging into the crowd one would be confronted by "Low Ball" Evans, "High Ball" Herron, and their able assistant, Dave Schmitt, behind their old fashioned bar, complete with elk-head, foot-rail, and you know what. Their main attraction appeared to be some private concoction which they were dispensing. Whatever ingredients they used, it must have been one of Paul Bunyan's favorite recipes because, after several drinks, strange things began to take place.

A high percentage of foresters and their gals made up the crowd. They evidently had a good time since almost everyone stayed to the end, after which Andy Anderson and his crowd took over to clean up the room and put the Woodchopper's Ball to bed for another year.

Committee chairmen were: general arrangements, Leverett Curtis; refreshments, Tom Evans; decorations, Norm Green; clean up, Andy Anderson; and favors, Bruce Colwell.

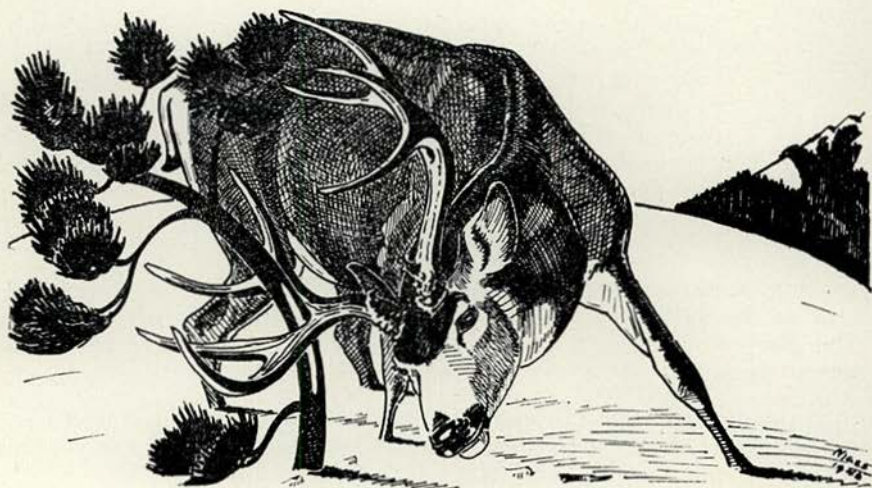
XI SIGMA PI

This year the Idaho chapter of the national forestry honorary had many activities to keep its members busy. Several forestry programs were given by Xi Sigma Pi members over the local radio station, KRPL. A feature of this program was devoted to conservation subjects in forestry and farming. The annual clean-up of Price green was carried out, although this project was delayed because of the heavy spring rains.

One of the most interesting projects was the making of a score or so of gavels with which to call to order Xi Sigma Pi meetings across the nation. This project started several years ago when nine of the chapters were requested to send woods representative of their states. This year under Professor Ellis' supervision these woods were glued together into blanks and lathe-turned into gavels. The woods used were:

- Birds Eye Maple—from Michigan State
- Cherry—from Purdue
- American Horbean—from North Carolina
- Butternut—from Minnesota
- Catalpa—from Louisiana State
- Oak—from Pennsylvania State
- Madrone—from the University of Washington
- Juniper—from Utah State

The handles are made of Mountain Mahogany representing the University of Idaho. When completed and polished these gavels will be sent to various chapters.



Yellowstone Field Trip

If you're a lover of the out-of-doors and are thrilled at the sight of numerous big game animals, you probably envy those students who went to Yellowstone Park on the Game Management Field Trip early in April of this year. The trip, under the able supervision of Dr. Dalke and Professor Hungerford, proved to be both interesting and educational.

We left Moscow Easter Morning, and after several stops to fix the brakes on the ambulance, and an overnight stop in Missoula, Montana, we neared Gardner, Montana. This was our headquarters for the next



four days. As many of you probably know, Gardner is located near Mammoth Springs and is the north entrance to Yellowstone Park.

Since we were all "outdoor" men, we decided to rough it our five nights in Gardner, by renting cabins complete with hot and cold running water and equipped for cooking, and immediately going to

the grocery store to buy luncheon meat, bread, etc. Each day thereafter we made our own lunches as we stayed in the field all day. What a rough time! There was one exception, H. Taylor, R. Brown and Co., must have done some cooking, for each evening a cloud of smoke emitted from



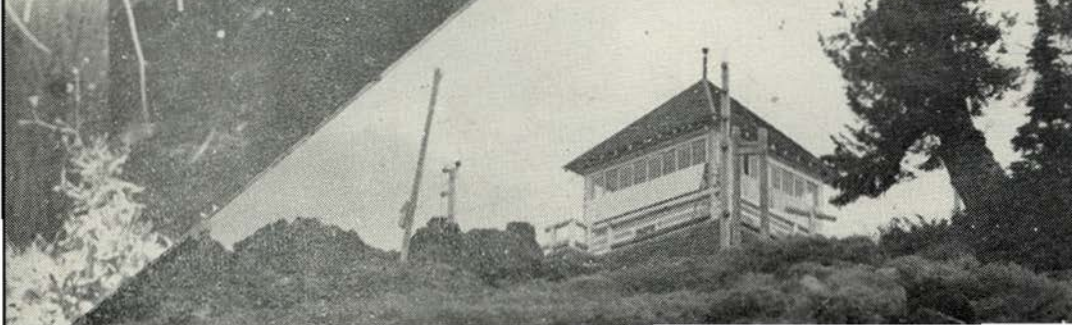
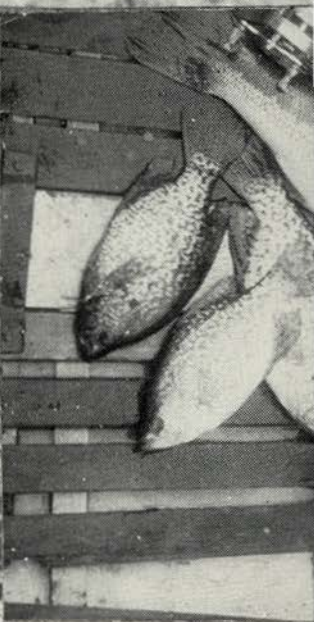
their cabin smelling of onions and burnt meat.

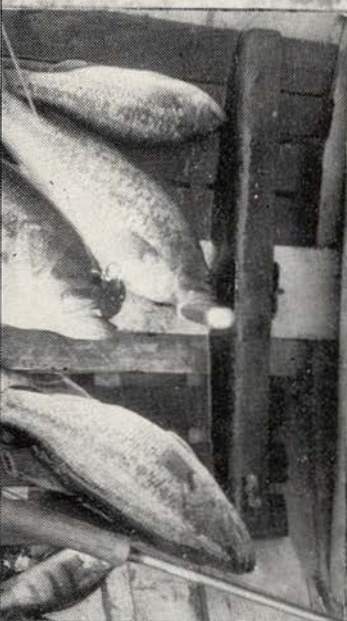
Winter is really the opportune time to go to Yellowstone if you want to see lots of game. If you're a humanitarian you'll be quite

disappointed because the animals are very thin. Each day we encountered dead and dying animals with starvation being the primary cause of death. The winter range, heavily over-grazed due to the excessive number of animals crowded onto a relatively small area, was practically non-existent. The perennial grasses have been dead for years, the deciduous shrubs and trees are fast disappearing, the



sage brush is being killed, a very definite "browse line" can be found on the Juniper and Douglas-fir trees, and even the very unpalatable





greasewood and rabbit brush is being browsed. At present, it is definitely a case of survival of the fittest.

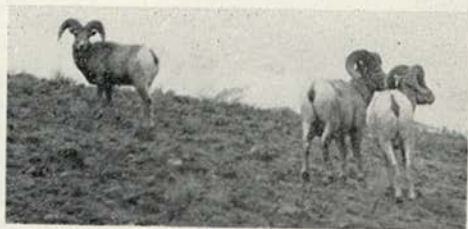


We wanted to gain some first hand knowledge of the problems related to big game management and we found them at the North Yellowstone winter game range. You have to see the area before you will believe it is possible for such a crit-

ical condition to exist. It's there but what is the solution to the problem? We didn't have the answer.

Some of the animals seemed to have found the answer to their winter food problem. I'm referring now to about a dozen mule deer that winter near Mammoth Springs. The little roadside beggars are ever present and are looking for a handout of orange peels, candy, or whatever you can spare them.

Probably the most excitement of the trip was encountered the day we visited the Buffalo ranch in Lamarr Valley. It seems that Roger Hungerford, Harry Taylor and Bob Rowen couldn't stand prosperity and tried to drive an old bull elk out into some deep snow. The bull had been very photogenic — he stood still while the fellows took pictures. When they decided they had taken enough pictures, they thought the bull should move on. Roger snow-shoed up close to the bull and was going to hit him and not on the head either. At this instant the bull turned around so Roger could pat him on the horns, but Roger wasn't there. He is the only person I know that can change direction and start running without even having his snowshoes on the ground. It was very fortunate that the bull did not continue his charge. (Rog, did you have any extra business for the laundry?)



The Park Service personnel were very accomodating. Mr. Condon, Chief Park Naturalist, gave us an exceptionally interesting talk. We listened for three and one half hours without a break and no one slept. I think the Professor picked up a few points on how to hold the class at attention.

We established several permanent line transects to determine the density of the vegetation on the range. These will be used by future study groups to determine if the range is deteriorating or improving.

Our trip home was quite uneventful. The ambulance continued to have brake trouble. A majority of the fellows slept all day Sunday after having enjoyed a Saturday night in Missoula, Montana. I think a few of the gang went to a movie for their entertainment. I'm not certain where Evans and Herron spent the evening. I did hear something mentioned about a high class bar, though.

Seniors

STEELE BARNETT

FOREST PRODUCTION
Tulsa, Oklahoma

Activities—Associated Foresters, President, 1 yr.
Associated Foresters, 1-2-3-4 yrs.
Phi Gamma Delta, 1-2-3-4 yrs.
W. 6th St. Village Council, Fire Marshal,
3-4 year.
Vets Cooperative of Moscow Inc., Board
Member, 4th year.
Minor I Club, 2nd year.



ELLSWORTH READE BROWN

RANGE, WILDLIFE
Cheney, Washington

Activities—Associated Foresters, 1-2-3-4 years.
Associated Foresters, Secretary, 3rd
year.
Intercollegiate Knights, 2-3 year.
Intercollegiate Junior Knight, 3rd year.
Hell Divers, 1st year.
Baseball, 1st year.
Wesley Foundation, 1-2-3-4 years.



CHARLES R. HUNGERFORD

RANGE-WILDLIFE MANAGEMENT
Moscow, Idaho

Activities—Associated Forester, 1-2-3-4 years.
Phi Gamma Delta, 1-2-3-4 years.
Xi Sigma Pi, Secretary, 4th year.
Xi Sigma Pi, 3-4 years.
University Band, 1-2 year.
Vandal Ski Club, 3-4 year.



ROBERT WILLIAM NEEL

RANGE-GAME
Orlando, Florida

University of Fla., Wash. State College
Activities—Associated Foresters, 2-3-4 year.





CHARLES ALLEN BIGELOW

FOREST MANAGEMENT

St. Helena, California

California Aggies 1939-1941

Activities—Associated Foresters, Vice President,
3rd year

Associated Foresters, 2-3-4 year.

Xi Sigma Pi, 3-4th year.



THOMAS CULBERTSON EVANS

FOREST PRODUCTION

Pocatello, Idaho

Univ. of Idaho, Southern Branch

Activities—Associated Foresters, 3-4 year.

Independent Caucus, 4th year.

Independent Council, 3rd year.



MARK MEYER JOHANNESSEN

FOREST MANAGEMENT

Warren, Idaho

Utah State Agricultural College

Activities—Xi Sigma Pi, 3-4 year.

Idaho Foresters, 3-4 year.

Vandal Ski Club, 4th year.



GRANT BURTON POTTER

FOREST MANAGEMENT

Estherville, Iowa

Worthington Jr. College, Worthington, Minn.

Activities—Xi Sigma Pi, Forester, 4th year.

Xi Sigma Pi, 3-4 year.

Associated Foresters, 2-3-4 year.

"I" Club, 3-4 year.

Football, 3-4 year.



DONAL WILLIAM BRISLAIN

WOOD UTILIZATION
Pueblo, Colorado

Baylor University, Waco, Texas

Activities—Associated Foresters, Secretary, 4th year.

Phi Gamma Delta.

Forestry Week, Chairman, 3rd year.



JOHN OLIVER HERRON, JR.

MANAGEMENT
San Diego, California

San Diego State College

Activities—Associated Foresters, Ranger, 4th year.

Associated Foresters, 1-2-3-4 years.



JAMES MARTIN

WOOD UTILIZATION
Fort Bragg, California

Activities—Associated Foresters, 3-4 year.



CHARLES FEARN SUTHERLAND, JR.

FOREST MANAGEMENT
Moscow, Idaho

Activities—Xi Sigma Pi, Ranger, 4th year.

Xi Sigma Pi, 3-4 year.

Sigma Xi, 4th year.

Idaho Foresters, 1-2-3-4 year.

Pershing Rifles, 1st year.

Seniors

- HILMER DALE CARRINGER** RANGE
Hailey, Idaho — Boise Junior College
Activities—Associated Foresters, Sophomore Representative, 2nd year.
Associated Foresters, Senior Representative, 4th year
Tennis, 2-3 year.
- FRANK ROOSEVELT CRAWFORD** FOREST MANAGEMENT
Burley, Idaho
Activities—Associated Foresters, 1-2-3-4 year.
- MAX WILLIAM FEE** FOREST MANAGEMENT
Moscow, Idaho
Activities—Associated Foresters, 1-2-3-4 year.
I. K., 1st year
I.M.A., 1-2 year
- HAROLD FRANCIS HAUP** RANGE — SOIL CONSERVATION
Spokane, Washington — University of Colorado, University of Michigan
Activities—Idaho Foresters, 1-2-3-4 year
Xi Sigma Pi, Vice President, 4th year
Xi Sigma Pi, 2-3-4 year
Sigma Xi, 4th year
- ROY HARRY HOELKE** RANGE — GAME MANAGEMENT
West Allis, Wis. — University of Wisconsin
Activities—Forestry Club, 2-3 year
Independent Caucus, 2-3 year
Orchestra, 2-3-4 year
Band, 2-3 year
Campus Club Exec. Board, 4th year
University of Wisconsin Forestry Club, President, 1st year
- FRANK THOMAS MCGINNIS** FOREST MANAGEMENT
Rome, Georgia — George Washington University, Wash., D. C.
Activities—Gold Team, 2-3 year
- JOHN CHARLES PAYNE** FOREST MANAGEMENT
Creston, B. C., Canada
- CULVER DUFF ROSS** FOREST MANAGEMENT
Boise, Idaho — Boise Jr. College
Activities—Xi Sigma Pi, 3-4 year
Associated Foresters, Secretary, 1-2-3-4 year
- ROBERT ANDREW ROWEN** RANGE — WILDLIFE
Twin Falls, Idaho
Activities—Associated Foresters, 2-3-4 year
- HARRY J. TAYLOR, JR.** RANGE — GAME
Twin Falls, Idaho — Idaho State College
Activities—Associated Foresters, 1-2-3-4 year
- ALAN H. WOOG** FOREST MANAGEMENT
Crestwood, New York — University of Idaho, Southern Branch
Activities—Xi Sigma Pi, 4th year
Associated Foresters, 2-3-4 year
Tennis Team, 2nd year



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- AHLKOG, RALPH HUGH, '33—Safety Officer, U.S.F.S., Milwaukee, Wis.
- AHRENHOLZ, FREDERICK WILLIAM '36—U.S. Forest Service, Sonora, Calif.
- ALBEE, LESLIE R., '35—Dist. Conservationist, Soil Conservation Service, Box 1671, Rapid City, S. D.
- ALLEGRETTI, JOSEPH JEROME, '41—14141 Frankson Ave., St. Paul, Minn.
- ALLEY, JACK ROBERT, '28—1235 E. Fremont, Pocatello, Idaho.
- ALLEY, JACK ROBERT, '40—Box 125, Clarkia, Idaho.
- ANDERSON, BERNARD A., '28—Forest Service Bldg., Ogden, Utah.
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- BAKER, BERTRAM CHARLES, '41—824 3rd St., Devils Lake, N. D.
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BLAISDELL, J. PERSHING, M. S. (For.), '42—U.S.S.E.S., Dubois, Idaho.

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BOOKER, EDWARD CONNELL, '38—c-o U.S.G.S., Salmon, Idaho.

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BOYD, BUFFORD CORNELIUS, '41—708 3rd St., Lewiston, Idaho.

BRADLEY, GLEN S., (Ranger Short Course), '28—District Forest Ranger, Shake Creek Ranger Sta., Sawtooth Nat'l. Forest, Hailey, Idaho.

BRADO, GLENN EUGENE, '37—District Forest Ranger, Sawtooth Nat'l. Forest, Ketchum, Idaho.

BREON, EUGENE ELIAS, '41—(Deceased).

BRIGGS, NORMAN JEWETT, '38—Development Engr., Development Dept., Weyerhaeuser Timber Co., Longview, Wash.

BRIGHAM, MORTON ROY, '39—Box 91, R. R. No. 2, Lewiston, Idaho.

BROCK, JOHN ERNEST, '39—(Deceased).

BROWN, CHARLES GILBERT, '36—C-6, A.S.F.T.C., Ft. Belvoir, Va.

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BROWN, JAMES PLEAS, '41—Colville Nat'l. Forest, Colville, Wash.

BROWN, STEWART EDWARD, '35—Insurance Agent, Missoula, Mont.

BUCHANAN, THOMAS STEWART, '35—Nortonia Hotel, SW Eleventh St., at Stark, Portland 5, Ore.

BUCKINGHAM, ARTHUR, '30—Forest Supervisor, Teton Nat'l. Forest, Forest Service Bldg., Jackson, Wyo.

BUFFAT, JACK LATTIN, '41—105 Princess Apts., Pocatello, Idaho.

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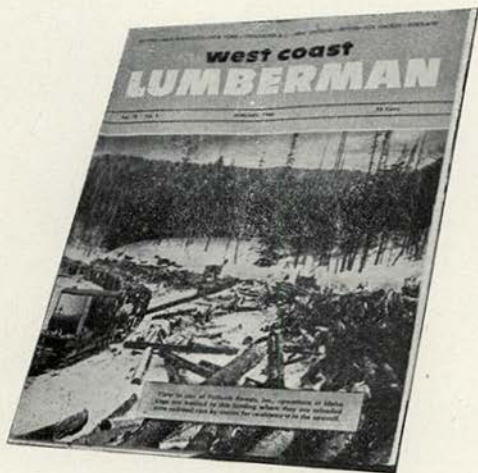
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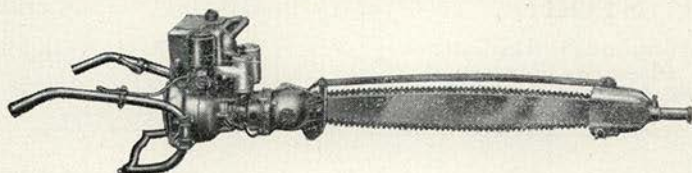
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