Idaho Forester

1971

Air Pollution Problem in Lewiston

Acknowledgements

The staff of the IDAHO FORESTER would like to thank all those who have made this magazine possible.

Special thanks go to Dean Wohletz and his secretarial staff of Jackie Green, Betty Kaufmann, and Miriam Smith.

We would also like to thank the alumni, authors of articles, advertisers and fellow students for their support. Thad Peterson deserves special thanks for the many hours of work he gave to the magazine.

As editor, I would like to extend my personal thanks to Professor Elwood Bizeau for his invaluable advice and suggestions and the many hours he spent helping both me and the magazine.

PHOTOGRAPHS

The front cover photo was contributed by Potlatch Forests, Inc. The back cover photo was donated by Professor Fred Johnson.

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Editorial

Steven C. Wilson

The last few years have been years of change in the College of Forestry, Wildlife, and Range Sciences. It is no longer just the 'College of Forestry'. Wildlife, fisheries, and range are rightfully demanding their own identities within the College. The IDAHO FORESTER, as the official student publication of the **entire** College, has tried to reflect this trend with a wide range of articles concerning all aspects of wildland resource management.

However, there has arisen a conflict between different segments of the College who are so intent in achieving their own identities that they are fragmenting the College. Each option in the College of Forestry, Wildlife, and Range Sciences is separate because of its specialized nature, but there is a common bond which should be just as strong. All are concerned with the better utilization of our natural environment for the benefit of as many people as possible. This should be our overriding consideration — **not** whether one is a wildlifer, or a range manager, or a fisheries expert.

The 1971 IDAHO FORESTER does represent the entire College. We hope that our efforts show that common grounds of interaction and communication do exist.

MULTIPLE USE MANAGEMENT

Few natural resources contribute so much to man's material and physiological needs as do the forests.

Potlatch Forests' timberland is managed to perpetually grow raw material for our forest products plants — producing a myriad of products to help fill the nation's needs, generating tax revenue for local, state and federal governments and providing jobs and payrolls in local communities throughout our operating area. Although timber is the primary product, other land uses and values are carefully considered and evaluated. Often referred to as integrated multiple use, Potlatch's natural resource management policy considers all values of the land-timber, water, fish and wildlife, minerals, forage, and recreation and strives to coordinate the protection, development and wise use of these resources into the most compatible and productive combination obtainable.

Using more than 1,000 miles of road built and maintained by PFI, thousands of public visits are made each year by hikers, sightseers, berry pickers, rock hunters, campers, picnickers, fishermen, hunters and other outdoor recreationists.

Potlatch takes pride in providing for man's recreational as well as material needs through the scientific forest management and harvesting techniques incorporated in its multiple use policy.

Potlatch
FORESTS, Inc.
GENERAL OFFICES, LEWISTON, IDAHO

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symbol of quality

Club Report

The College of Forestry, Wildlife, and Range Sciences has been very active this year. Its three principal student organizations, The Society of American Foresters, The Wildlife Society, and Xi Sigma Pi, have all had a full calendar of events.

This third year of operation for the Wildlife Society saw a greatly increased membership, now over 70 members. During the year there was also a vast expansion in the Society's activities. A first place trophy for the top team in the Wildlife Bowl was brought back by the U. of I. group which attended the 1970 Western Student's Wildlife Conclave held in Corvallis, Oregon. The shotgun raffle held during the year was successful, and the money raised was used to send 14 members to the 1971 Western Student's Wildlife Conclave in Fort Collins, Colorado. Monthly meetings were held and a wide range of interesting topics were discussed by guest speakers. Attendance at meetings has been good throughout the year, a large contingent of WSU Wildlifers attend each Idaho chapter meeting to hear the guest speakers.

In September, 1970, the University of Idaho Chapter of the Society of American Foresters was installed as the ninth student chapter of the Society. When the first membership drive was completed, there were forty-two charter members.

Meetings of SAF this year have dealt with organizational and business matters, such as the ratification of the chapter's by-laws. Guest speakers and evening field trips have also built a spirit of professionalism within the membership. The future of the new organization is bright.

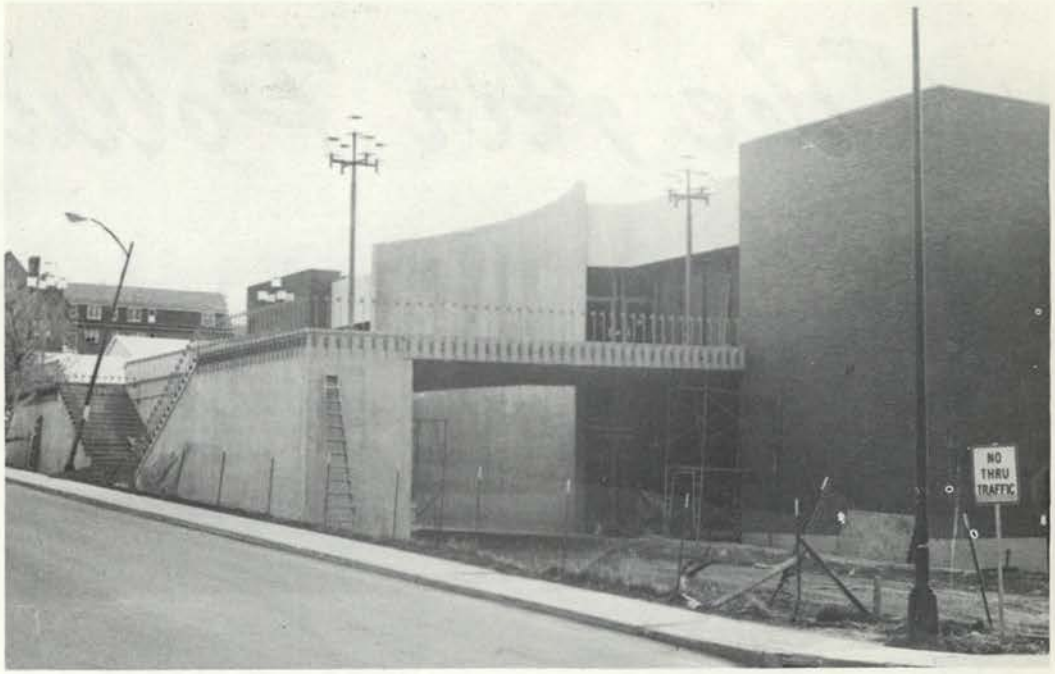
Xi Sigma Pi opened the year by bringing together graduate and undergraduate students in an apprenticeship program designed to give undergrads some practical education by assisting the graduate students in their research. A second project that Xi Sigma Pi undertook this year was to offer its services for liaison and communication between students and faculty. Students were elected to the faculty-student committees and several productive meetings were held. The students now realize that they have a voice in determining the curriculum and organization of the College of Forestry, Wildlife, and Range Sciences. An innovation in the format of the chapter's meetings is the seminar type of gathering instead of the former "business only" type of meeting. This helps promote interest in the activities of the chapter and will help the members continue their important work.

The activities of these three groups is indicative of their desire to enhance the stature of all students in the College. Concern by everyone involved will make this goal a reality.

FACULTY FACES — Row 1, Dr. Ernest W. Wholetz, Dean of the College, Dr. John P. Howe, Wood Utilization, Dr. Robert H. Seale, Associate Dean; Row 2, Dr. Arthur D. Partridge, Pathology, Dr. Merrill E. Deters, Forestry, Tim Thompson, student; Row 3, Kenneth M. Sowles, Forest Industry, Alces Alces Wildlife, Dr. Maurice G. Hornocker, Leader Cooperative Wildlife Unit; Row 4, Elwood G. Bizeau, Wildlife, Dr. Richard R. Knight, Wildlife.

—Photos by Scrivner

A Dream Come True



Through These Portals We Will Pass
(or Fail?)

The New Forestry Building (open for classes next fall)

Photos by Scrivner

The Air Pollution Problem In Lewiston

THREE VIEWS

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Our Continuing Commitment To Pollution Control

Potlatch Forests, Inc.

In recent months, much of American industry has come under attack as harmful polluters of our air and water. Certain individual companies have been singled out for particular attention by well-meaning but generally uninformed groups.

The belief is widespread in many segments of our society that damage to the environment must accompany industrial growth, and that much of industry exhibits a callous disregard for the environment. Certainly at Potlatch nothing can be further from the truth. But we must all recognize that the criteria for plant location, equipment, and design were quite different 20 or more years ago than they are today. Now the task of bringing old plants up to standards desired by all of us in this period of our history is a difficult and time-consuming one. With the best of good will and effort there is no way in which it can be completed immediately.

Given intelligent and objective cooperation and understanding by the public in the areas in which we operate and by state and federal governments, we believe that we can, within a reasonable period of time, bring our plants up to acceptable standards of environmental quality. This certainly is our goal.

The preceding three paragraphs were taken from the foreward of a pamphlet entitled **Our Continuing Commitment to Pollution Control** which was prepared this year by Potlatch Forests, Inc. The foreword was signed by Benton R. Cancell, President.

Following are those portions of the report specifically dealing with air pollution related to the Lewiston, Idaho pulp and paperboard mill. Excluded are those portions dealing with water pollution at Lewiston as well as air and water pollution — problems, accomplishments, and goals — at our Cloquet, Minnesota plant. The complete report is available from the Public Affairs Department, Potlatch Forests, Inc., Lewiston, Idaho 83501.

Pollutants, basically, are by-products created in the processes that convert energy or matter from one form to another. In fact, nature itself creates pollutants. Changes of energy in the earth's crust, resulting in volcanoes, create catastrophic pollution. Natural forces at work on the earth's surface continually convert rock structures into fine materials that cloud streams and rivers. Decay of organic matter creates pollutants in swamps and streams. Seepage of mineral-laden water from the earth can adversely affect water quality. Many natural ecological processes create pollutants.

Industrial facilities, including those that convert natural resources into manufactured processes, unavoidably create waste materials in the manufacturing process. In excessive amounts, these wastes, unless collected or properly disposed of, can create pollution as they escape into the air, water, or ground. To protect the environment, industry must control these effluents and emissions within the allowable limits of the environment.

Potlatch Forests is no exception. The major pollution abatement challenges facing us arise from the processes used to produce pulp and paper. The conversion of wood chips into paper and paperboard requires the use of air, water, and chemicals. The challenge is to use these ingredients with as little waste as possible and to collect and render harmless the waste that cannot be prevented.

Potlatch's air and water pollution abatement programs are designed to meet or exceed state and federal standards. And as standards are established and programs are approved, we are moving ahead with major construction projects to install highly effective pollution abatement equipment and processes.

Air Quality

The production of wood pulp also produces atmospheric emissions of small solid particles, visible water vapor, and various odorous gases in great part measured as total reduced sulfur.

The question of exhaust quality primarily arises in the chemical recovery operation, in which the liquor (pulp cooking chemicals) is recovered for reuse. After the wood is digested into pulp, the black (spent) liquor containing inorganic cooking chemicals and dissolved organic matter is removed from the pulp. In the first phase of liquor recovery, the black liquor passes through a series of evaporators to increase the concentration of solids.

When solids are concentrated to a certain level, sodium sulfate is added, and the solution is sprayed into the recovery furnace. In the furnace, the organic materials are burned to carbon dioxide and water vapor. The inorganic chemicals are recovered as a molten smelt.

The molten smelt flows into tanks and is dissolved in water to become green liquor. The green liquor is treated with lime to renew the solution as white liquor ready for the digesters. The lime mud residue produced in this process is collected, washed, and burned in a kiln to recover lime for reuse in treating further batches of green liquor.

Atmospheric emissions of particulate matter and gases develop from the many complex processes involved in the recovery cycle.

Particulate Control

The most effective equipment now available for particulate control is the electrostatic precipitator. An electrostatic precipitator is a chamber containing electrically charged wires. As exhaust gases pass through the chamber, soot and ash particles receive an electrical charge and adhere to the wires. The action is somewhat like metal filings clinging to a magnet. Periodically the wires are vibrated, permitting the particulate matter to fall to the bottom of the chamber for collection.

The three recovery boilers at the Lewiston pulp mill employ electrostatic precipitators in their exhaust-stack gas stream. A fourth recovery boiler with a precipitator rated at 99.7% efficiency has been ordered and should be in operation in 1972. When this project is completed in 1972, particulate emission from the Lewiston recovery stacks will drop from the current 6,000 lbs. a day to 2,600 lbs. a day.

Odor Control

The most difficult aspect of pollution abatement facing sulfate pulp mills is odor. In the processes of pulp digesting and chem-

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The State Of Idaho's Position On Air Pollution In The Lewiston-Clarkston Area

Arthur W. Van't Hul
Regional Public Health Engineer **Idaho Health Department**

The valley formed by the Snake and Clearwater Rivers with its very deep canyon and its poor ventilation is a natural trap for smoke, gases and other forms of air pollutants. The valley has a high rate of air inversions — well over 200 per year. Inversions are due to a cold air mass aloft and lack of air movement in the valley. If an inversion persists, a buildup of pollutants occurs, visibility is impaired, disagreeable odors assail the nostrils. The resulting buildup of gases and particulates can become physically irritating, especially to those whose respiratory tracts are sensitive to gases and particulates.

The Sources of the Problem

Lewiston has several industries which pollute the atmosphere. The largest single source of industrial air pollution is the mill operation of Potlatch Forests, Incorporated which provides the city's largest payroll. Many businesses and homes in the older portion of Lewiston frequently emit large quantities of heavy smoke through the use of low grade fuels or improper operation of obsolete heating systems. Most of the interstate auto traffic passes over two streets in the bottom of the valley through downtown Lewiston causing a noticeable concentration of exhaust gases at times.

The History of Air Pollution Control Activity

As created by the State legislature in 1959, the first Air Pollution Control Commission was an opinion-seeking body. It did not have funds to carry on studies nor to take action. In 1967, the present Air Pollution Control Commission, composed of 5 members, was established by the legislature. The 1967 law established the Air Pollution Control Commission as an independent administrative body and gave it duties and functions. These functions are coordinated within the State Department of Health. The Commission is independently financed and has equipment and staffing to do basic air pollution monitoring. Its main function is the establishment of regulations for the control of air pollution in Idaho. The Director of the Commission coordinates activities with the Federal Government.

Prior to 1967, the Federal Government was assumed to be responsible for establishing air pollution control regulations in inter-state problem areas such as Lewiston-Clarkston. During the period 1961-1967, several studies of the problem were made by Potlatch Forests and by the U. S. Public Health Service. The Federal Government recommended that the states of Idaho and Washington, the communities of Lewiston-Clarkston and the county commissions of the four counties involved should work together in establishing air pollution controls. But outside of a few meetings of a Tri-County Air and Water Quality Control Committee, nothing was done on an area-wide basis. The city of Lewiston developed and adopted a no-burning ordinance which was the only control in the entire valley. In 1967, Potlatch Forests, which had been working on the air pollution problem for many years, presented an acceptable proposal to the U. S. Public Health Service for continuing construction of emission control devices and for a monitoring program.

In Nov. 1970, the state of Idaho was informed by the National Air Pollution Control Administration that the Federal Government was relinquishing its responsibility in the inter-state area to the states of Washington and Idaho and that an air shed was being established for the Lewiston-Clarkston region. By this action, the problem became the responsibility of the states of Idaho and Washington to control air pollution in the area. The Idaho Air Pollution Control Commission will take over responsibility for all future studies involving Idaho air pollution sources in the valley.

What is Being Done?

Air pollution standards for Kraft Mills were developed and adopted by the Idaho Air Pollution Control Commission in March, 1971. These standards are almost identical to those in Washington and Oregon. Continuous monitoring by the Commission staff will be conducted to insure that the newly adopted standards are met.

New furnaces to be installed at the Potlatch mill should greatly reduce many of the pollutants from that source. There is no intent at this time to reduce the large quantities of steam which occasionally create visibility problems in the valley. Some odorous sources have been isolated recently and the smell could conceivably be reduced, but it will not be eliminated completely.

In the final analysis, pollution control is everyone's business — not just industry nor the state and Federal agencies — each citizen must do his part, however small. It is only by working together that we will achieve an environment relatively free of air contamination.

The Smell of Money?

Jack O'Connor, Citizen
Lewiston, Idaho

In 1948, I decided I could no longer live in my native Arizona without developing an ulcer. I was born in Arizona. I grew up there. I had worked and had gone to college in the South and the Middle West, but I was never happy in any place except my native state. I returned to Arizona in 1931. From 1934 until 1945, I was a professor of journalism at the University of Arizona.

In 1934, Tucson had been a charming city of about 40,000 with good shops, good doctors, good restaurants, little crime, clean air. By 1948, the population was probably around 100,000-150,000. Pleasant stretches of desert land where I had picnicked with my family were filled with sub-divisions with Jerry-built houses and fancy names in bad Spanish. Now Tucson has a population of over 300,000 and has riots and rackets.

I had resigned my position at the University of Arizona in 1945 to take a much more remunerative job as a staff writer for a national magazine, one that would enable me to live anywhere. I had wanted to leave Tucson at the time I left the University, but my wife was reluctant. We had a pleasant home and young children to worry about. However, in 1948 she agreed to go wherever I wanted to go.

Actually I didn't know just where I wanted to land. All I knew was that I wanted to find a place where there was some bird shooting, some country to wander around in, some hills and trees and clean air and water. I thought of various places, but two friends focused my attention in Idaho. One was a colonel in the air corps who had been stationed near Boise during the war. Another was a famous motion picture star, who had shot pheasants and had been skiing in Idaho.

In the early spring of 1948 before my wife could change her mind, I sold our Tucson house for delivery on July 1 and left to look over Idaho. I found real estate prices in Boise high and the town had the look of a place that was going the way of Tucson. I remembered that one of my friends had favorably mentioned a place called Lewiston. I left Boise in the afternoon, spent the night in McCall. I slept poorly, got up at the crack of dawn, ate breakfast, and took off.

It was still early when I reached the top of the Winchester grade and began the winding descent to Lapwai. The hills and the fields were green, the sky brilliantly blue, the air scented with the fragrance of pines. I saw dozens of pheasants near the road around Lapwai, some Huns, and some quail. When I got to Lewiston I fell in love with it. This was the place I was looking for. I bought our present house and have lived in Lewiston ever since.

There are a lot of things in this life besides money, and actually I have valued money only because having some of it gave me security, enabled me to have some freedom of choice and movement, and to buy a few things I have wanted — a fine Italian sidelock double in an oak and leather trunk case, for example, an occasional big-game hunt with my wife along, and so on.

Those first few years in Lewiston I used to tell my friends in the East about all the things anyone who lived in Lewiston got for little or nothing. The bird shooting around Lewiston and across the line in Washington was good. Many times my wife and I would get the kids off to school, drive 8 or 10 miles and be back home two hours after we left with a couple of limits of quail. On the first weekend of the pheasant season, the big bright cocks flew around in the Lapwai area like sparrows.

But in the 23 years since I moved to Lewiston the valley has become a much less desirable place to live. The worst blow the Lewiston-Clarkston area has ever got was the Potlatch pulp mill. This monster pollutes the air and the water. It robs the residents of the valley of their sunshine, undermines their health. Many times I have awakened in my Lewiston home to a grey, dirty, stinking day; and after having driven up the Lewiston hill toward Moscow I have discovered that the weather was purely local. On the top of the hill, the air would be clean and the sun bright. Below it was grey, stinking, too thick to breathe, too thin to swim in. Since the pulp mill was installed, I, along with hundreds of other people in the valley, have developed chronic bronchitis. As I write these lines, the wind has changed and I feel better. But for the three days before, the stench from the pulp mill was in every crevice and cranny in the valley, blackening the silver, searing lungs, causing sinus trouble and emphysema.

At first, the reaction around Lewiston was about that of a former major of this fair city. He was quoted as saying that the mill's stench "smelled like money." To me it has always smelled like a common substance, the name of which is spelled in four letters the first being "S." Those who expressed some dissatisfaction with Potlatch's invasion of their homes, the fouling of their air, and the polluting of their water were told that if they didn't like it they could move. They were looked upon as screwballs and soreheads.

One poor guy in Clarkston woke up one morning and found his house had been blackened by the lethal fumes of the pulp mill. He sued Potlatch for the price of a new paint job, but that great firm brought out a high-powered battery of attorneys and beat the case. If he had won, his victory might have given the peasants ideas. Until comparatively recently, Potlatch has maintained with a straight face that it had little or nothing to do with the air pollution in the valley — that it was caused by automobile exhausts, cigar smokers, people burning autumn leaves, and what-not.

The Army Engineers have been laboring like little beavers to finish off the Snake and Clearwater Rivers. They have sold the chambers of commerce on slack water navigation from Lewiston to the sea. Exactly what the series of dams will cost when completed I cannot say, but probably in the neighborhood of a billion dollars. All the jolly little businessmen are sitting around, rubbing their palms together, and thinking the dams will make them rich. There is about as much economic justification for those dams as there was for the flight to the moon. Farmers could ship their wheat out by water for a thousand years and never recover the dams' cost. In the meantime it looks as if the dams will mean the end of the salmon and steelhead runs. Dworshak dam on the North Fork will flood out some of the winter range of North Idaho's biggest elk herd. Dworshak dam was sold as a flood control measure, but since I have been here, the worst thing the flood of the Clearwater has done has been to tip over a couple of unoccupied outhouses. Building the dam has resulted in some profit by merchants and real estate speculators, but that is about the only tangible result.

One of the most terrifying things to me is what the farmers are doing to the environment. It is enough to boggle the imagination! I know one farmer, who (So help me God!) is a bird hunter. On his place there were some willows along the creeks, some brush on the rocky hillsides, a little brush in the draws that ran up into his wheat fields. It was once good bird country. Now he has bulldozed the brush out of the draws and

from along the creek. Maybe he has enough more grass to feed one cow each year for one week. The willows that protected the stream banks are gone and the banks have eroded down to bare rock. There are no pheasants, no Huns, no quail. A year or two ago the farmer told me "I don't know what the hell has happened to the birds. They may have got some disease or those bastards from town probably sneaked in here and shot them all off."

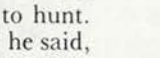
In years past, I spent many happy autumn days wandering around with a dog and a shotgun near Lewiston. I used to shoot some Huns and a pheasant now and then. The last several times I have gone out with a good dog into once productive haunts I have not seen ONE BIRD. Most of the brush has been bulldozed out. Almost all hillsides are so heavily grazed that if there is any brush it affords no cover because cattle have eaten off all grass and weeds under it. Most of the topsoil is gone. Every spring the country is drenched with chemical poisons like DDT and parathion. I ran into a famrer on whose place I used to hunt. "Were there any pheasants last year?" I asked. ' 'Hell," he said, "I haven't seen a pheasant on the place for five or six years. There are a few chukars on the hillsides but that is all." "You poison them off," I said. "We have to farm like that to make money,"he told me.

For several miles upstream from its confluence with the Clearwater, Lapwai Creek used to be a cool haven for game birds and small game. On each side was a narrow belt of willows that protected the birds — and also the stream banks from erosion. Lapwai creek was once a famous salmon and steelhead stream and thousands of fish came up to spawn. Now the stream has been "improved" by the Idaho State Highway Department, the Army Engineers, and the Camas Prairie Railroad. The creek now runs over a barren ugly bed of sterile rocks. The pheasants, the quail, the cottontail, the coons that the willows once protected are gone. I am told that a few steelhead still run up the creek and spawn. How they do it I cannot say.

I am not one to sell short the incredible greed and shortsightedness of the average Homo americanus. We have the ugliest cities in the civilized world, with the possible exception of Tokyo, which I have not seen since 1919. We are using our resources at a breathtaking rate. We probably cannot do much about individual greed. We were born that way. I think, though, that we can curb the short-sighted, poorly educated, barbarous specialists that we support with tax funds and who are raping this fair land — the Army Engineers with their high-powered and cynical public relations department and their wasteful dams, the brainless and barbarous highway engineers who destroy the streams and whose ambition it is to put the country under asphalt, the ignorant and short sighted agricultural experts like the county agent who encourages the farmer to poison the land, to cut the trees, bulldoze the brush, and devastate countryside for short term gains; the foresters, who believe that nothing has a right to grow in the woods that cannot be converted cheaply and easily into pulp or lumber.

I hope that the pioneer era of short-sighted and greedy exploitation of our rich land and resources is coming to an end. I believe it is. A few years ago anyone who didn't think the stench of the Potlatch pulp mill smelled like Chanel No. 5 was considered a nut. Anyone who opposed the construction of dams was considered an enemy of progress and practically a Communist. Anyone who thought it a bit odd to destroy our fragile topsoil to raise wheat at government expense and then give it to India to raise more Indians to hate our guts was considered subversive.

Today, the majority of the people in Lewiston-Clarkston area are weary of the stench of the pulp mill, disgusted with the mill's pollution of the Snake and Clearwater rivers, hostile to more destructive dams.



The indescribable innocence
and beneficence of Nature,
—of sun and wind and rain,
of summer and winter,
such health, such cheer, they afford forever!
Shall I not have intelligence with the earth?
Am I not partly leaves and vegetable mould myself?

Henry David Thoreau

AIR POLLUTION-P.F.I.
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ical recovery, various odorous gases are formed. These gases are measured in great part as total reduced sulfur.

The difficulty in satisfactorily controlling odorous gases is that one part of gas in one billion parts of air can be detected by a sensitive nose. Potlatch is working hard, as is the industry, to abate the emission of total reduced sulfur. Much has been done, and much more is planned.

Currently at Lewiston, the lime kiln is equipped to accept and burn various odorous gases from the pulp making process. In addition to reducing the odor, the lime kiln is also equipped with a scrubber to remove the particulate matter from the kiln exhaust stack. A vaporsphere is being considered in the engineering for Lewiston. This is a holding tank to collect and meter odorous gases to the lime kiln at a rate that will not exceed the kiln's capacity to burn the gases effectively.

The most significant odor abatement technique in place at the Lewiston pulp mill is the oxidation system for weak black liquor. This system is designed to stabilize the formation of compounds that liberate odorous gases during evaporation and burning of spent cooking liquor in the recovery boilers.

Concentrated black liquor oxidation will be added to the process at Lewiston to reduce odorous gases exhausting in recovery furnace operations.

Potlatch is also attacking the odor problem at a different point in the chemical recovery system. This is the point of final evaporation when the black liquor is exposed to hot combustion gases from the recovery furnaces. The contact of the hot gases with the liquor liberates odorous compounds. This has been a major source of odors confronting sulfate pulp mills.

Recently, recovery boiler systems have been developed to avoid exhaust gas contact with the liquor. The new recovery unit ordered for the Lewiston pulp mill will incorporate this feature.

In 1972, the total reduced sulfur emitted from the Lewiston recovery boilers is expected to drop from the current 7,000 to 9,000 lbs. a day to less than 420 lbs. a day. This marked reduction of total reduced sulfur emission will result in less odor from the pulp mill. But as long as some odorous compounds may be detected in ratios as small as one part in one billion parts of air, some odors might still be detected from mill operations.

Air Emission Improvement

Lewiston Pulp Mill	**1970**	**1972**
Particulate - Recovery Boilers (lbs. per day)	6,000	2,600
Total Reduced Sulfur + Recovery Boilers (lbs. per day)	7,000-9,000	245-420

Commitment

Potlatch's commitment to environmental improvement is a continuing one within the limits of technology and our economic ability. The plans and objectives for the period 1971-1974 will lead to measurably significant results.

In 1972, the emission of particulate matter and odorous gases will be cut dramatically in Lewiston.

Potlatch does not expect these programs to complete its work in environmental improvement. The commitment will continue, and additional sums will be spent in the fight against pollution.

Fire For Elk In Northern Idaho

Thomas A. Leege
Senior Game Research Biologist
Idaho Fish and Game Department

Many people are complaining that elk aren't as numerous as they used to be in much of northern Idaho. This concern is justified only if they don't look too far back in history. Past records indicate that elk were rare when Lewis and Clark traveled through Idaho in the 1805-06 period. Elk remained scarce throughout the region until the early 1900's when their numbers started to increase in the Selway River drainage. Elk populations continued to expand and spread during the 1920's, 30's, and 40's. Numbers peaked between 1935 and 1955, depending upon the particular area. Since then, however, elk numbers have been slowly dwindling on most of our northern Idaho ranges.

Reasons for Large Elk Herds

Elk, like other animals, are products of their environment. There is a direct relationship between changes in elk habitat and changes in elk numbers. Prior to 1910, habitat conditions were poor for elk throughout northern Idaho because timber covered most of the low elevations where elk concentrate during the winter to avoid deep snow. Timber stands provide very little browse in their understory. The 1910 wildfire burned millions of acres in northern Idaho. As a result, brushfields replaced coniferous forests on much of this acreage. Many of the shrub species that followed the fire were ideal elk forage and occurred in large quantities. Elk herds flourished. Additional elk range was created by big wildfires in 1919 and 1934. However, plant communities are continually changing. As they change from the early shrub stages that occur immediately after burning to the climax coniferous stage, conditions for elk deteriorate. In some areas, the crowns of young conifers have completely crowded out the shrubby species. In situations where conifer regeneration has been delayed, (frequently where two or more wildfires have occurred in recent years), the browse supply has held up the longest. However, even on these areas, many of the palatable shrubs have grown too tall for elk to reach. At the same time these tall shrubs have shaded out the low growing forage beneath them. Even on our best elk ranges, the quantity of browse is now less than one-third of the peak production that occurred five or ten years after the wildfires. Browse quality has also declined because of the depressive effect that shading has on nutritive value. Elk numbers decreased in direct response to this forage reduction. This downward trend is destined to continue until habitat improvements occur.

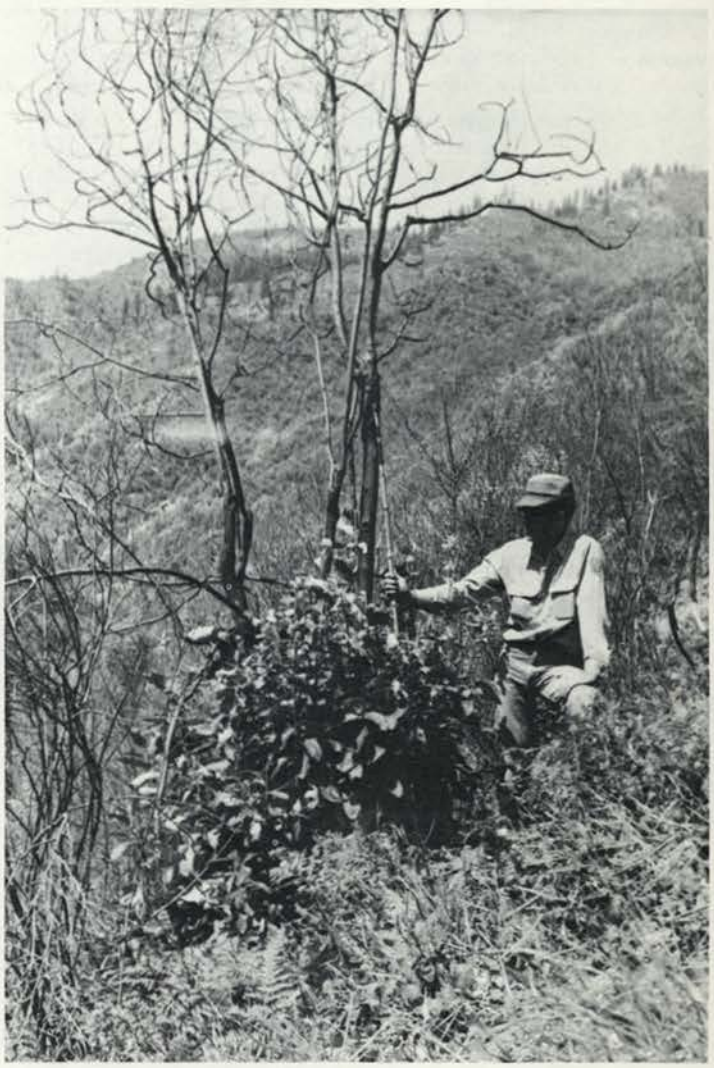
The chances of significant amounts of elk habitat improvement by wildfire have been minimized due to technological advances in fire location and suppression techniques. Logging will increase the browse supply in areas where timber was missed by the early fires, but it will be many years before the young trees on recently burned areas are ready for harvesting. Herbicides have been used with only limited success for improving overgrown browse ranges. Coppicing, the cutting down of tall shrubs to promote sprouting, has proven somewhat successful, but costs are much too high for the limited wildlife funds that are available. In order for a range rehabilitation program to be successful, the technique must be economical as well as effective.

Prescribed Burning Studies

In 1965 the Idaho Fish and Game Department and the U.S. Forest Service initiated a study to evaluate the use of prescribed burning to improve elk ranges. We recognized that fire control would be easiest during the spring shortly after snow melt, and in the fall after the summer dry period ended. Our studies were designed to compare the results that were obtained from burning during these two seasons. We chose study areas in the Lochsa River drainage because of the good access afforded by U. S. Highway 12. Vegetation on the Lochsa is similar to other burned-over drainages to the north and south.

Sprouting Response

About 400 shrubs, representing most of the main forage species on elk ranges in northern Idaho, were measured before and after burning and on control areas. The shrubs most im-



This typical willow had its aerial portions killed by a spring fire just four months before this photo was taken. Available browse has been increased because of prolific sprouting.

portant to elk, because of their palatability and abundance were redstem, willow, mountain maple, and serviceberry. These species, as well as the less desirable ones, sprouted abundantly from the root crown following both spring and fall burning. A few redstem and bitter cherry plants failed to sprout. Others of the same species also died on the unburned control areas; so death was not necessarily caused by burning. Redstem and bitter cherry are intolerant of shading and they are among the first shrubs to disappear as the canopy closes with advancing plant succession.

Willow was the most vigorous sprouter; it produced shoots averaging four to five feet long after one growing season. Individual willow sprouts were as long as 12 feet. Most of the other species grew sprouts that were two or three feet high. Average sprout numbers ranged from a low of ten for cascara to a high of 120 for mountain maple. All species together averaged 40 to 50 sprouts per plant. Fall burning produced fewer sprouts for most species than spring burning, but as a rule the sprouts were longer.

Immediate Browse Increase

Burning effectively reduced the height of shrub crowns and increased browse availability of the tall-growing species like mountain maple, willow, and serviceberry. On one study area where we measured changes in browse production, there was a 300 percent increase of available browse during the first growing season following spring burning. However, these tall shrubs have tremendous root reserves and gain their height back very rapidly after burning. Just four growing seasons after both spring and fall burns, maple, willow, and serviceberry averaged nearly 10.5 feet high. Only 80 percent of their production was considered to be low enough for elk to use. It appears that repeated burns will be necessary to keep these tall-growing shrubs at a usable height.

Long-Term Benefits

The long-term benefits of prescribed burning depend upon the germination of redstem ceanothus seeds and survival of the seedlings. One of the main reasons for the decline of browse on elk ranges is the reduction of redstem plants in recent years. Redstem is very intolerant and some indications are that it is naturally short-lived. Whatever the reasons, it is evident that many redstem plants have disappeared from seral shrub communities. Redstem has adapted to fire. The seeds have extremely durable seed coats that enable them to lay dormant, but viable, in the soil and duff for many years. Only when the seeds are heated by fire or the dormancy is broken in some other fashion does germination occur. Both spring and fall burns cause germination. Fall burning apparently favors redstem establishment by causing more seeds to germinate than spring burning. Also, survival is better after fall burning because seedling growth begins will all other vegetal growth the spring following burning. In contrast, after spring burning, redstem seedlings do not start growth until the following spring; they have to compete against other plants which are beginning their second growing season.

Other Burning Benefits

Other benefits that result from burning include increases in browse palatability and nutrients. Our findings indicate that four years after burning the elk still made greater use of the browse on burned areas, eating stems to larger diameters and even browsing on some species that they rarely touch in unburned areas. Browse protein increased following burning and remained higher for two growing seasons. But by the third year, nutrient content has returned to pre-burn levels.

Soil Erosion

Soil erosion has not been noticeably accelerated by the prescribed burns. Fall burning consumed the litter more completely than spring burning and exposed additional bare soil. For these reasons and because the soil remained unprotected by vegetation over the winter, fall burning caused a greater erosion potential. However, the soil and humus were moist during both spring and fall burns in contrast to the dry conditions found during summer wildfires. The high moisture levels prevented the heat from penetrating and destroying the soil holding properties.

Problems of Application

After it was established that prescribed burning improved elk range, it became evident that several problems would need to be resolved before enough range could be improved to significantly benefit the elk. These problems are: (1) insufficient financing, (2) inadequate manpower and techniques, and (3) multiple use conflict.

Most of the elk range in need of prescribed burning in northern Idaho is found on the Coeur d'Alene, St. Joe, Clearwater, and Nez Perce National Forests. The Multiple Use Act, under which the U. S. Forest Service functions, authorizes these Forests to manage specific areas for elk. It must be established, however, that these areas are more important for elk than other forest uses. Unfortunately, very meager funding is provided to the Forest Service for managing these elk ranges even after their importance is recognized. However, Forest Service personnel initiated a burning program for habitat improvement in 1965 and expanded the program annually until almost 4,000 acres were rejuvenated in 1968. Poor burning weather limited the burning to about 1,600 acres in 1969. Costs were reported at $0.75 per acre because considerable manpower and money were donated from other functions. Almost all of the burning was done in the spring, because it was much less expensive than fall burning. With about 250,000 acres of elk range in need of rehabilitation in northern Idaho, it became clear that more financing was needed to establish a burning program sufficiently large to register reasonable progress. The Idaho Fish and Game Department contributed $7,500 to the Forest Service burning budget in 1970; and about 9,000 acres were treated. The Forest Service is planning to spend $30,000 of Department money in the spring of 1971 to burn almost 14,000 acres. Larger sums of money will be needed to establish a program of desirable size, about 25,000 acres annually.

Money Will Not Solve All Problems

Lack of funds is not the only obstacle slowing progress toward a larger burning program. Many of the areas in need of burning are extremely inaccessible. This problem, coupled with the lack of adequately trained manpower and the occurrence of only a few good burning days each spring, makes it very difficult to get large acreages treated. We are experimenting with a technique whereby ignitor devices can be dropped from a helicopter. This will enable a very few people to ignite many inaccessible areas during the normally short periods of time when burning weather is adequate. If this aerial ignition technique can be perfected, an expanded burning program will be more feasible.

The third problem, that of conflicts with other national forest uses, is a very real one at times. For instance, it is difficult to grow timber on an area that is being burned for elk

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1970 Summer Employment Survey

William L. Scrivner
Student

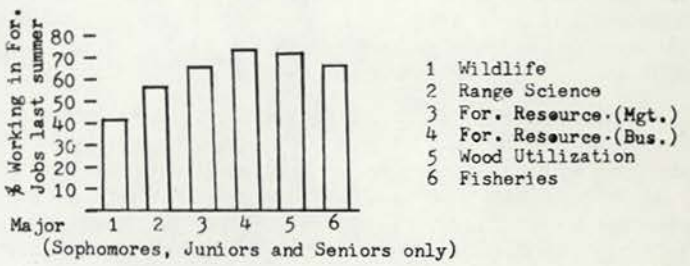
During registration for the spring semester 263 students filled out questionnaires regarding employment last summer. The purpose of the survey was to determine how many students worked in forestry related jobs, how they got the jobs, for whom they worked, where they worked, and how much they were paid. Other questions were included to explain why some students did not have forestry related work. The information from individual questionnaires was punched onto data cards. Frequency distributions were obtained by processing the data through the IBM 360 computer at the University Computer Center. The information gained through this survey will be used by the College of Forestry, Wildlife and Range Sciences to help place students in the best jobs available.

While looking over this report, one should keep in mind that the summer of 1970 was an unusually slow one for forest industries. Due to federal spending cutbacks and a slow-down in the lumber and wood product industries, forestry jobs for students were significantly decreased.

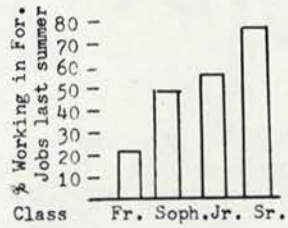
In addition to the frequencies shown graphically, the survey showed that 72.2% of the students employed worked in Idaho. The survey also showed that of those not working in forestry related summer jobs, 83% worked at another type of job. 72.6% of those not working in forestry related jobs did not attempt to find such a job.*

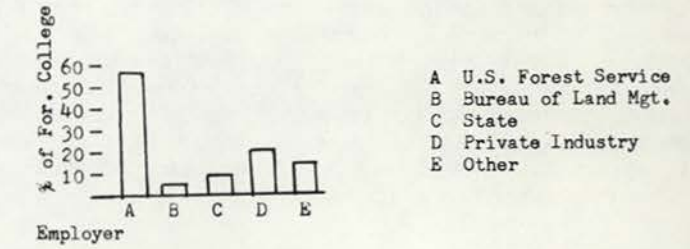
Freshman students were not included in some of the frequencies. This was done to avoid bias caused by large numbers of unemployed freshmen in some groups. At the time of this survey, these students had just graduated from high school; they had not yet affiliated with the University of Idaho nor the College of Forestry, Wildlife and Range Sciences.

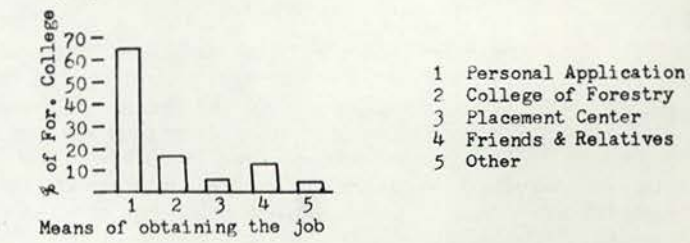
*Percent of entire College (66% of Soph., Jr., and Sr. not working did not attempt to find forestry work).



(Sophomores, Juniors and Seniors only)







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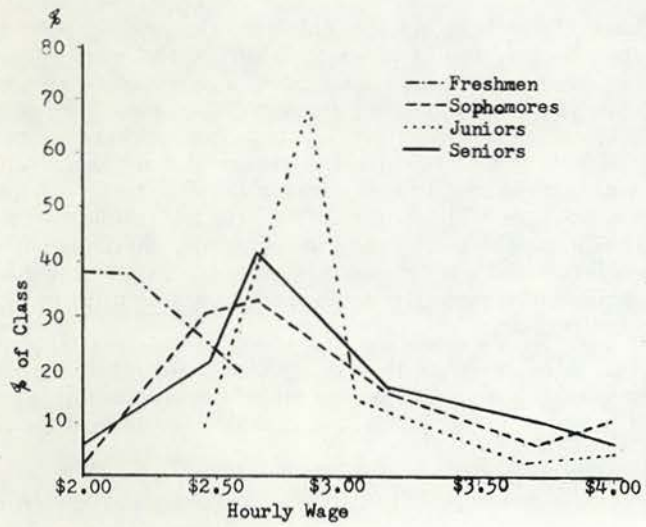
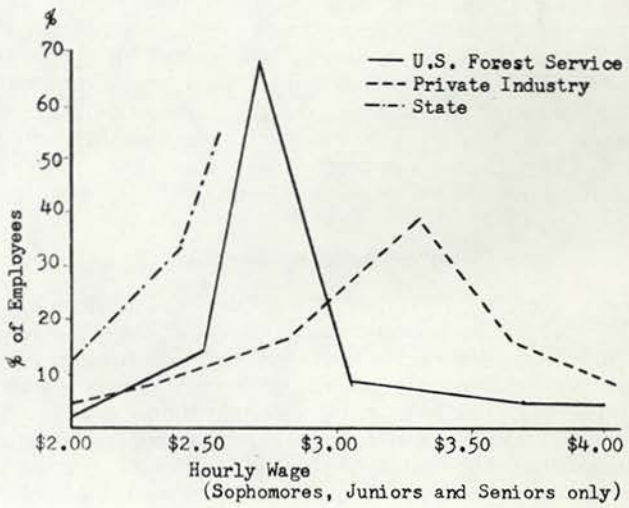


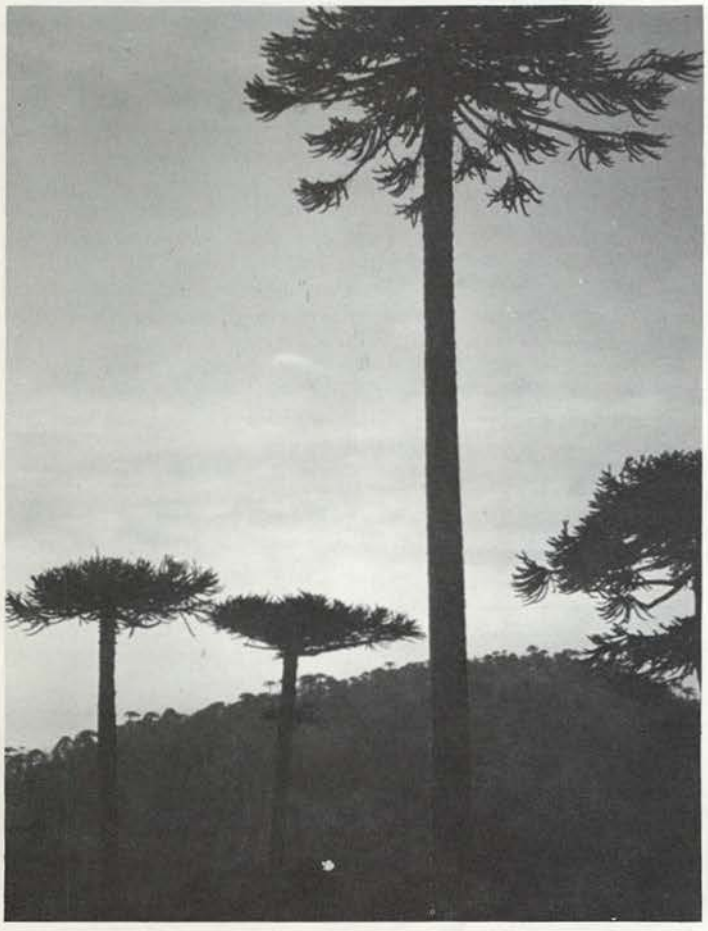


(Sophomores, Juniors and Seniors only)

Forestry in Chile

Charles G. Johnson
Graduate Student

Mr. Johnson spent 2½ years in Chile with the Peace Corps. He worked with the Chilean Division of Forestry in its reforestation program, taught forestry to pretechnical school students and constructed a development plan for one of the national parks.



Monkey Puzzle Tree in Tolhuaca National Park, Chile
Photo by Author

Visualize a country 2600 miles long but only 110 miles wide. This would be equivalent to a measuring rule 24" long and 1" wide. Now consider a few physiographic features. The western side is bounded by the Pacific Ocean and the eastern boundary is the rugged backbone of the Andes cordillera. From north to south, climatic extremes include the driest desert in the world, the Atacama Desert, and a region of dense forested wilderness in the extreme southern third of the country which receives as much as 200 inches of rainfall per year. Thus, Chile is a highly variable country with complex problems owing to its many social and political differences and its relative isolation from the rest of the world.

The Division of Forestry is responsible for the management of Chile's forests which are located primarily in the southern half of the country and comprise 27% of the total land area. Since the government is highly centralized, with transportation and communications difficult between the various zonal and regional offices, the implementation of policies developed in Santiago, the capital city, is extremely difficult. There have been several attempts to decentralize the division and place more policy-making decisions in the hands of the zonal directors, but with little success.

To understand the situation in Chile today, we must look at the past. As Chile was colonized, the native forests fell to the landowners' axes and were burned ruthlessly in an attempt to create needed agricultural lands. Colonization is continuing today, but those lands being cleared of native forest are not suited to agricultural activities. This brings into focus the number one problem faced by Chile's foresters today, — namely the continual erosion of prime forest land induced by ill-advised agricultural practices on slopes too steep to handle the high winter precipitation. Directly related to this problem are the wildfires caused by clearing the forested lands.

One fifth of the accessible forest land or 2.6 million acres has been destroyed by fire and erosion. To combat this tremendous resource loss, the government has undertaken an ambitious reforestation program which (it hopes) will not only restore denuded lands to production, but will foster new wood utilization industries and employment. To promote this program, low interest loans and materials are extended to landowners by governmental agencies working closely with the Division of Forestry. As a further incentive to the landowner, reforested lands are exempted from taxation.

The major species used is Monterey pine *(Pinus radiata)*. It is provided at minimal cost to the landowner through local government nurseries. It survives well on diverse sites and has a very rapid growth rate. This species is ideal grist for the pulp and paper mills. Its common annual increment is 1.0-1.5 inches and you have a pulpable tree at 18 to 20 years. At 28 to 30 years, this species is normally harvested for sawtimber. Other species used are coast Douglas fir, redwood, ponderosa pine, eucalypti, and Himalayan and Monterey cypress.

One of the major deterrents to reforestation is the large percentage of denuded lands under small ownership. These land holdings are generally from 25 to 250 acres in size and are held by poor owners who must utilize the acreage for agricultural ends in order to survive. The difficulties in promoting the program among these numerous owners is a very real problem not yet fully solved. In the region I covered, over 80 percent of the lands classified as having a forest capability were held by these small landowners.

An intensive forest fire campaign was initiated in 1967 which has had a very profound influence among the populace. Fire fighting crews have been trained and deployed to combat the raging fires which are frequent in the plantations and native chaparral in the coast range of central Chile. Lightning is a rare occurrence. The fires all start as a result of man's activity, usually from clearing fires which have gone out of control. To remedy the situation, stiffer fines will have to be leveled against landowners who fail to secure burning permits or who do not take the proper precautions when burning.

Another problem which has received little attention is the yearly encroachment of coastal dunes upon the forested

coastal range. Today 328,000 acres are covered by growing, shifting dunes. Some efforts have been made in widely scattered areas to stabilize the dunes through plantings of acacias, (*Acacia dealbatae A. melanoxylon*) followed by maritime pine (*Pinus maritima*). These experimental plantings have proven the feasibility of dune control, but the limited budget of the Division of Forestry cannot undertake full scale operational plantings.

Chile's wood utilization industry is just getting under way. There are three pulp and paper mills and one tissue mill which produce enough for national consumption, but high grade paper must still be imported. Plans call for a total of eight such mills to handle the projected volume of raw material from the infant pine plantations. There are many small lumber mills which produce poor quality lumber due to antiquated equipment and a general lack of technological training. The product is too far from population centers. Poor transportation between forest and market will not allow a prosperous industry to exist. When transportation and product quality cease to be problems, the lumber industry should grow. The two large efficient mills in the country are operated by U.S. interests and they export most of their lumber.

The Department of National Parks and Forest Reserves, which should have divisional status, is just another department of the Division of Forestry. It is in charge of 36 national parks and 39 forest reserves comprising 11.6 million acres. Many of the parks have failed to meet the criteria adopted by the Latin American Conference of National Parks in 1968 and will soon be re-designated or placed under other administering agencies. Emphasis should be placed on a few of the total number of parks to serve as models for the rest of the parks in the system. Five major parks are currently being studied and developmental designs prepared. However, there is a shortage of personnel to effectively administer and carry out the work needed to build the park lands into a unified system of properly developed parks accessible to the visitor. A more autonomous administrative structure is needed in order to give greater status and funding to the system.

Chile has some very interesting land forms and vegetation protected within the national park system. Two insular possessions in the Pacific, Juan Fernandez Island and Easter Island, contain large areas designated as national parks. Two national parks preserve large stands of monkey puzzle tree (*Araucaria araucana*). This prehistoric relic has its last stronghold along a narrow ribbon high in the southern Andes. Several semi-active volcanoes and the famous Torres de Paine are also included in the system.

There is a difference between the Chilean forester and his North American counterpart. After five years of college education, much like that received by a forest resource manager here, the Chilean forester is usually placed in a top administrative position with the Division of Forestry or a closely related governmental agency or private industry. He assumes no subordinate role prior to his administrative post and receives no real field experience. This creates a gap between the administrator and untrained worker. Realizing this, the educational system has developed two year technical forestry schools which operate similar to those in our country. The reason the professional forester jumps from classroom into a top administrative position is because of the lack of foresters in Chile. The first Chilean forester graduated in 1955. Since that date two universities, the University of Chile and Austral University, have been graduating about fifteen foresters yearly.

This small contingent formed the Association of Chilean Foresters in 1965 to provide an interchange in ideas, advances through research and administration and to discuss matters common to the profession. Regional and national meetings are held with technical papers presented and analyses made concerning the aims and goals of forestry in the country. It has been a particularly good organization which has done much to unify and coordinate Chilean forestry efforts between all individuals and organizations engaged in forestry endeavors.

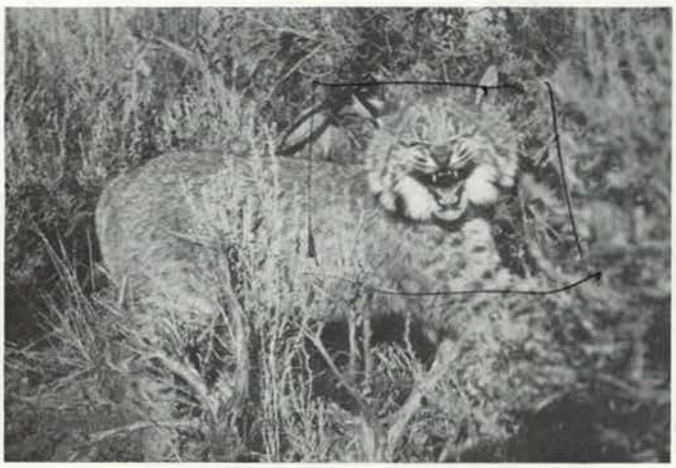
There are many changes evolving. Chile has discovered that a free enterprise system is not necessarily the best means to rid itself of its economic problems. The road to socialism has resulted in part from pressure by a growing number of university-trained people and in part, by a growing awareness of Chile's high dependency on foreign governments and foreign industry. The bold new reforms may give Chileans the industrial independence and stable economy they seek. Although socialism per se will not be the answer, neither is the U.S. style of free enterprise. Chileans believe that when the rich copper industry is theirs and large estates are broken down for distribution among the have-nots via agrarian reform, the goals of industrialization and non-dependence on other governments will be in sight. The forest industry will be able to develop without deficit spending or large international loans. Needed equipment and funds should become available through a resulting import-export market more favorable to Chile than that which now exists. With this better economic situation, jobs will be available for large numbers of unemployed workers and educational opportunities more widely distributed than now. Though the current political situation in Chile may not be favorable for U.S. industries currently operating there, Chileans believe it is good for Chile. Perhaps that is what is most important after all!

Bobcats

Theodore N. Bailey
Graduate Assistant
Idaho Cooperative Wildlife Research Unit
University of Idaho

The old lava tube was an ideal den for the female bobcat to raise her two kittens. The tube once transported hot lava from a nearby crater, but some time in the distant past the top had collapsed allowing entrance underground. The den was cool during the hot summer months, and rabbits, the bobcat's main prey, were plentiful nearby. The female still wore the aluminum tags I placed on her ears in February. She weighed 21 pounds then, about average for an adult female bobcat. She probably mated with one of the two adult male bobcats I captured and released in the same vicinity — either the 29 pound "tom" taken near the den, or a 24 pound "tom" I captured two miles away.

It was August when I first saw the scattered remains of rabbits near the lava tube. The tell-tale kitten tracks in the dust advertised it as a bobcat den. That evening as I lay concealed behind some sagebrush, I saw the tag-wearing female leave the den. She scanned the surroundings for about 30 seconds before swiftly climbing the rocks to ground level and disappeared into the darkening sagebrush. She could provide me with valuable information about family relationships if I could place a radio transmitter on her. I also knew she would be difficult to capture. She, like other female bobcats with kittens, would probably use different routes to enter and leave the den. She would move the kittens to another area at the slightest hint of danger. But I managed to recapture her a few days later. After carefully measuring a dosage of immobilizing drug, I place the drug in a syringe mounted on the end of a pole and injected the drug into the female's hip. Five minutes later, after the female was unable to move, I examined her and fitted her with a radio transmitter collar. The drug would wear off in 2 to 3 hours. This female bobcat and her two kittens would now provide me with much information about the life of a bobcat.



Juvenile male bobcat with ear markers.
— Photo by Author

Tagging and tracking bobcats with radio transmitters are part of a bobcat population study I began in 1969. The study is conducted through the Idaho Cooperative Wildlife Research Unit. The Unit Leader, Dr. Maurice Hornocker, is my graduate advisor on the project. In addition to my personal interest in the bobcat, several other reasons prompted the study. First, the bobcat is a predator. In animal communities, predators often help reduce violent fluctuations in the numbers of prey, and they operate as a selective force eliminating diseased and unfit individuals. A factor influencing the efficiency of predation is the size of the predator population. One objective of my study is to learn how the size of a bobcat population can be determined. Second, bobcats are solitary, but even solitary mammals exhibit some form of social behavior. Territoriality, as a form of social behavior, could limit the number of bobcats living on a given area. Understanding how territoriality functions with the bobcat might benefit other species of wild cats that are endangered.

Current demand for bobcat fur has made the bobcat an important furbearing species. In Idaho, as in many other states, the bobcat is not considered a game animal and is therefore not protected by law. This situation makes it difficult to find a study area where bobcats are abundant but undisturbed. The Atomic Energy Commission's National Reactor Testing Station, a large area of rugged lavas and ancient craters in southeastern Idaho, was chosen because hunting and trapping were prohibited within its boundaries. I would capture, tag, and release the bobcats living on a selected area of the Station. Recapturing, snow-tracking, and radio-tracking would give an estimate of population size, composition, and distribution. Bobcat carcasses would be collected from trappers near the study area to give additional information on bobcat ages, reproductive rates, and food habits.

Bobcats breed throughout the year, but the peak breeding period on my study area occurs from January through March. After a gestation period of about 60 days, the kittens, varying from 2 to 5 per litter, are born in protected locations such as caves and rock piles. Most kittens are reddish-brown in color with many black spots, but a dark gray color phase can occur in the same litter. When mature, these dark gray bobcats are sometimes called "lynx cats" and are mistakenly believed to be different from the "bobcat". The female weans the kittens by bringing prey to the den. Blacktailed jackrabbits and cottontail rabbits are the major foods of the bobcat on the study area. Prey taken in lesser numbers are kangaroo rats, chipmunks, pack rats and mice.

As the kittens mature, or if the den is disturbed, the female moves them to other locations. Later, the kittens accompany her on hunting trips. If threatened, she will signal her kittens to take protective cover in the rocks. If no protective cover is available, she may hide her kittens under sagebrush and later return for them after the danger has passed. Females may even bring prey to captured kittens. Because of their dependence on her, the female's death probably means death for the kittens. Kittens may remain with the female for at least six months. But as they grow older, they begin spending more time alone. The female may meet and stay with a kitten as it moves within her range, but eventually she may escort it away and return alone.

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Western Red Cedar Bark — A Pollutant Or A Product?

Roy Adams
Research Assistant in Wood Utilization

For many years wood and bark residues have created one of the most serious problems for the wood based industries. But in the past two decades our concept of wood waste has changed drastically. We now consider former waste residues as valuable raw materials. Improved technology has made it possible to use sawdust in pulping operations. Sawmill edgings and slabs now provide chips for pulping or board products. These uses absorb a sizable quantity of the wood resources; but large volumes remain and **bark** is the main unused residue.

Pole producing companies are an important wood industry in northern Idaho. These companies use western red cedar exclusively. Removal of the bark allows preservative to enter the wood. Cedar bark degrades so slowly that it constitutes a fire hazard if left in the forest, so the debarking operation occurs at the mill. Until recent implementation of air pollution regulations, pole producing companies disposed of the bark by burning it in the infamous teepee burners.

Red Cedar pole yard in Northern Idaho. This Burner is no longer used to burn Cedar bark. (Photo by Scrivner)

Fuel

Many teepee burners can operate within existing air pollution regulations, but may require some modification to do this. If one keeps the temperature within the burner sufficiently high, a significant reduction in smoke and particulate matter occurs; and the burner only smokes extensively when first ignited. Dry bark forms a good fuel with ¾ the heating value of coal. However, it becomes an increasingly marginal fuel as moisture content increases, due to the use of much of the heat produced to evaporate its own moisture. Even bark peeled in the summer contains considerable moisture. Thus, in order to keep the temperature up when burning, the burners require underfire heating using natural gas or oil. Most pole companies find this cost prohibitive.

Faced with the accumulation of excessive amounts of cedar bark, the Rocky Mountain Pole and Treating Association requested that the University of Idaho's Wood Utilization staff help in solving the problems of cedar bark utilization. In 1968, the five companies cooperating with us in this project produced some 2.5 million cubic feet of cedar bark.

Uses of Bark — Past and Present

Since the birch-bark canoes of the Indians, bark has found many varied uses. Exotic species provide such products as cinnamon flavoring; the cocktail ingredient, angostura bitters; the antimalarial drug, quinine; and an aphrodisiac, yohimbine. Some products derived from West Coast species consist of cork, waxes, tannins, dyes and pharmaceutical chemicals. Other methods of utilization include **fuel, land fill, soil amendments, chemical production,** and **board products.** Let us examine each of these uses in relation to western red cedar bark.

Fuel for Power?

A committee set up recently by the Governor of Idaho will determine the feasibility of utilizing municipal and wood industries' solid wastes (including bark) in a steam-electric generating plant in northern Idaho. Members of the University of Idaho faculty from Business and Wood Utilization will assist the committee in its work.

Landfilling — Poor Method of Disposal

Companies which cannot meet the air pollution standards for burning, utilize landfill sites for disposal of their bark. When suitably located, these fills do not result in air or water pollution. Landfilling offers the only immediate solution to the problem of bark disposal without pollution. However, landfilling has several serious drawbacks. High land costs and Department of Public Health regulations make acquisition of suitable sites difficult. Transportation costs are high. Cedar bark compacts poorly. It can constitute a fire hazard; and because of the stringy nature of cedar bark, the debarker often produces pieces of bark several feet long which are extremely difficult to handle mechanically.

Use As a Soil Amendment

Bark and other wood wastes have found extensive use as mulches or soil conditioners. Larger pieces of bark make good ornamental material, while the small particles make good soil conditioners. Bark provides physical benefits to the soil, e.g., improvement of soil porosity, water retention, weed control, and temperature regulation. However, bark has no intrinsic value as a fertilizer. In fact, the decay producing micro-organisms associated with the bark consume nitrogen from the soil causing a nitrogen deficiency unless corrected by addition of fertilizer.

Several factors would appear to limit the utilization of western red cedar bark as an ornamental material or mulch or as a soil conditioner. The stringy nature of the bark would prevent its use as chunks for ornamental purposes. Workers have found that pure cedar sawdust depresses the growth of young pea plants, probably because the extractives interfere

with nitrogen fixation by bacteria in the soil; the same effect may apply to cedar bark. High transportation costs limit this form of utilization to a reasonable radius from the mill. Since such large quantities of bark from other species exist; and since other species can do a better job, competition would appear too keen for cedar bark to make successful inroads in this field.

Chemical Utilization of Bark

Barks have a more complex chemical structure than their corresponding woods. We can divide the components of bark into extractives and residues. The extractives constitute that part which dissolves in solvents such as water, alcohol, benzene, and ether. These extractives could furnish valuable chemicals. For example, Douglas fir bark yields such products as insecticide carriers, resin extenders, and dihydroquercitin, used for medicinal purposes. The Chemistry Department at the University of Idaho has started isolating various fractions of cedar bark extracts in an effort to determine if these could provide potentially useful chemicals. Due to the many different compounds present, this study takes a great deal of time.

Destructive distillation of wood, i.e., heating in the absence of air, produces such products as charcoal, turpentine, acetic acid, and pitch. Charcoal, the end product of destructive distillation, has a potential market in briquets for recreational use. The present market demand for chemicals and charcoal from destructive distillation is not strong enough to make much of a dent in the large quantities of bark available.

Board Products Research

Board products can provide an outlet for large quantities of bark. Previous work has shown that cedar bark and wood residues make reasonably good insulation board and hardboard. We can class these as fiber boards formed using a wet process. Professor Kenneth Sowles, Assistant Professor of Wood Utilization and I decided to study the use of cedar bark in making particle board. We define particle board as wood particles bonded by synthetic resin adhesives under heat and pressure.

Using facilities at Washington State University, we first passed the cedar bark through a tumble drier, then through a hammer mill to reduce the particle size. We determined the particle size distribution by passing a sample through screens of different sizes. This showed a large percentage of fines or dust which we felt would be detrimental to the properties of the board, so this was removed. After redrying the particles, we sprayed them with phenolic resin in a rotating drum. We then spread the particles into a mat 12-by-15 inches in size and pressed this mat into a board ⅝-inch thick, using temperatures over 270 degrees F. to cure the resin.

After leaving the board for several days to allow moisture content to equilibrate and the resin to finish curing, we determined bending strengths and internal bond strength (tensile strength perpendicular to the surface) of samples taken from the board. The bending strengths exceeded those required by standards for wood particle board, but the internal bond did not. We feel that the low strength of the individual particles impart an overall low strength to the total board. As the next step, we plan to form boards from bark reduced down to individual fibers.

We have shown the feasibility of producing boards with reasonable strength from western red cedar bark in the laboratory. The capital investment necessary to set up a new mill or a new production line in an existing mill for production of these boards requires more study before the process can be regarded as commercially feasible.

However, we are sure that all of the research into bark utilization will eventually provide the breakthrough necessary for us to think of bark as a valuable raw material rather than a waste product.

☆ ☆ ☆

It is something to be able to paint a particular picture,
or to carve a statue,
and so to make a few objects beautiful;
but it is far more glorious to carve and paint
the very atmosphere and medium through which we look,
which morally we can do.
To affect the quality of the day,
that is the highest of arts.

Henry David Thoreau

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The morning wind forever blows,
the poem of creation is uninterrupted,
but few are the ears that hear it.

Henry David Thoreau

Water Quality and Steelhead Migration Studies

on the

Lower Snake River

C. M. Falter
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The Lower Snake River extends from Lewiston, Idaho to its confluence with the Columbia River at Pasco, Washington. Throughout this stretch, it is an immature stream, with short gradual rapids alternating with ½ mile long deep pools. Development of this region of the Snake River has been swift in the last decade. Three low head dams have been constructed and a fourth one is about 20% completed. When the fourth dam is completed, 140 miles of free-flowing river will have been transformed to 4 placid pools. We are only now becoming concerned as to the effects of these impoundments on water quality.

There are two main reasons for our concern:

1) The historical and recreational interest in the Snake River runs of salmon and steelhead. Over 200,000 salmon and steelhead pass through the Lower Snake River each year, swimming upstream to spawn in upper reaches of the Snake River and its tributaries. The recent demise of these runs has prompted sudden interest in the long term effects of river developments., i.e., a re-evaluation of the prevailing notion that **any** development represents an increased net gain to society from the "zero" worth before development.

2) Then of course, there has been a sudden strengthening of state and federal water quality standards as well as stepped up enforcement of existing standards . . . all in the interest of environmental quality.

Impoundment of a free flowing stream has several adverse effects on the water:

— Plankton populations of algae increase in the slow moving or still water.

— Oxygen levels will show more extreme diel fluctuations, with lower nightly lows and higher daytime highs. This is because of planktonic algal production, a decrease of the surface area to volume ratios, decreased surface turbulence recharging oxygen, and reduced water velocity thereby concentrating decomposition over a smaller area.

— The river has a much reduced natural aireation capability.

— Reservoir water tends to have higher mean temperatures than the previously free-flowing stream.

— Beds of submerged aquatic vegetation develop over shallowly-submerged agricultural lands.

— Toxic gases might occur from biological decomposition in deep water layers. We must keep in mind the nature of these Lower Snake River reservoirs. They are "run of the river" impoundments as opposed to storage impoundments. In these Lower Snake reservoirs we can expect little or only localized vertical stratification of water layers; most of the water masses are freely circulating and intermixing. Thus, there is little opportunity for widespread occurrence of reducing conditions which produce toxic gases.

Water quality in the three existing reservoirs below Lewiston is passable . . . at least whatever problems might be there are not glaringly evident. But then, there really is no reason to suspect major problems. The only unnatural inputs to this section of the Lower Snake are:

1. Increased silt from agricultural lands.
2. High nutrients from these cultivated lands.
3. Slight amounts of organic matter from cattle feeding operations along tributaries to these pools. Various pollutional inputs at Lewiston are reduced somewhat by partial decomposition, or algal utilization by the time the water enters the first existing impoundment, Little Goose. These inputs are presently being assimilated by the river with no severe effects. They will, however, be flowing directly into the Lower Granite pool at Lewiston.

We must consider the following sources of pollution loading into the Lower Granite pool:

1. Lewiston and Clarkston sewage effluent - high in organic matter and plant nutrients.
2. Potlatch Forests Inc. Kraft process pulp and paper mill wood fibers, sugars, plant nutrients, bacterial load, and components toxic to aquatic life.
3. Leached plant nutrients and dissolved organics from log ponding.
4. Cattle feed lot drainage - high in plant nutrients (especially nitrates) and bacterial load.
5. Food processing wastes - organic materials especially resistant celluloses.

The Water Quality Section of the Environmental Protection Administration is supporting our water quality-steelhead migration research in this section of the river to explore effects of water quality change and impoundment on adult summer steelhead. Concurrently, a second goal in this study is to document the present water quality in the Lower Granite area and to predict resulting water quality after impoundment. This latter goal (a joint WSU-Idaho effort) is part of a larger work plan currently in progress. It is funded by the Army Corps of Engineers, which is documenting water quality in the entire Lower Snake, from the Columbia into Hell's Canyon.

If water quality problems are predicted in Lower Granite, the overall study will identify causes and make recommendations to improve the situation. For example, if discrete density currents high in industrial or domestic wastes flowing through the impoundment are predicted by this study, design modifications of the dam could be made to allow for various layers to be drawn off, preventing buildup of stagnant water masses. Or perhaps the pool could be drawn down at times of fish passage to maintain free-flowing conditions at that critical Snake-Clearwater Rivers confluence.

Specific parameters being assessed on a year-round basis are:

Water temperature
Light penetration
Hydrogen ion concentration
Alkalinity
Total Hardness
Total Dissolved Solids
Oxygen
Organic matter (Total and dissolved)
Chemical oxygen demand
Biological oxygen demand
Bacterial occurrence
Algal composition and production
Total iron
Ortho phosphates
Nitrates
Sulphates
Chlorides
Hydrogen sulphide
Carbon dioxide
Ammonia
Mixing patterns of the Snake and Clearwater River waters below their confluence
Tannins and Lignins

We have selected eight sampling points on the Lower Snake and Clearwater Rivers to obtain this information. In addition, the Corps of Engineers is conducting basic physical and chemical measurements at 4 additional points on Little Goose and Ice Harbor reservoirs.

This physical and chemical information will be used in the 3-dimensional modeling of the hydrodynamics of the pool, after which the total known limnology of the free flowing river can be fitted to this model for estimates of water quality and biological production of this strategic impoundment. Algal production is the aspect with which we're most concerned.

The Snake coming out of Hell's Canyon is no mountain stream. It carries a stout load of organics and essential macro- and micro algal nutrients. Our chief worry with impoundment is that increased algal production due to impoundment alone will be "spiked" by addition of nutrients in the Lewiston-Clarkston area. Most dissolved nutrients will still be left after the proposed secondary sewage treatment. We have some indication of this possibility. Oxygen sag curves from the Snake-Clearwater confluence (pollution loading point downstream) show an atypical peak several miles below the confluence, suggesting increased production by the existing planktonic and periphytic (attached) algae. The increased algal populations with the advent of slack water will cause an even higher oxygen peak with subsequent lower nighttime oxygen levels as algal production increases in the stilled river.

How far can oxygen levels drop before we can label it as a significant deterioration of water quality? In the mid-summer to fall period, oxygen levels presently drop to less than 6 mgm/liter in the free-flowing river. Migrating adult salmon and steelhead will not pass upstream through water of less than 5 mgm/liter oxygen. Post impoundment oxygen levels could drop below 5 mgm/liter at times during runs of summer steelhead and summer chinook.

Low oxygen levels are but one aspect of our concern for post-impoundment water quality in Lower Granite pool. Another major point is the fate of the toxic components of future wastes dumped into the pool. The pulping effluent from PFI, for example is high in biochemical oxygen demand, suspended solids, and a very complex organic mixture of compounds significantly toxic or confusing to the olfactory senses of fish. Some of these toxic components are mercaptains, sulphides, low pH or acid wastes, and quinones.

Faced with this pending change in water quality, we have set out to describe migrational patterns and behavior of adult summer steelhead in this section of the river before impoundment by Lower Granite Dam. We can then recognize post-impoundment changes in these patterns and, perhaps, even correlate observed changes with specific changes in water quality. Beginning in 1969, we have tagged and tracked 25 adult steelhead per year in the Snake River above and below Lewiston, Idaho. We then map and summarize their travel paths. We have posed the following hypothesis:

Altered limnological conditions will have no effect on steelhead migration patterns.

Before we can accept this, we must have explored all possible avenues which may show it not to be true, i.e.: there **is** some effect. Some considerations we are looking at . . . .

1. Steelhead travel time through the area.
2. A change in general migration pathways.
3. General pathways may be similar, but we may find specific avoidance by steelhead at certain areas due to high concentrations of Kraft Mill effluent, low dissolved oxygen, high carbon dioxide, low or high pH, or even concentrations of hydrogen sulphide.
4. Total numbers passing through the area may change.
5. There may be an increase of wandering or indecision of fish to pass up either river at the confluence.

Our tracking efforts are concentrated in July, August, and September since water quality is at a yearly low point due to low flow and high temperatures.

To date in the pre-impoundment phase, we have seen no consistent patterns of fish avoiding existing pollution sources, but analyses have not been completed. Eventually, fish behavior and water quality interactions will be exposed with multiple correlation techniques.

Range Sheep Production and Nutrition

Wally Butler
Graduate Student

The Intermountain Region of the Western United States is an important range sheep producing area. Idaho is a major sheep producing state, ranking eighth in total sheep production in the United States. Of the sheep produced in Idaho, vast numbers are produced on range forages.

The Study Area

The area in which I am working is in southeastern Idaho, predominantly on state-owned land. The entire study area is owned or leased by the Idaho Citizen's Grazing Association. Some additional work is being done in cooperation with the Eastern Idaho Grazing Association, also predominantly on state-owned land.

The area is characterized by mountain ranges and intervening valleys, varying in elevation from 7,729 feet above sea level to a low of 5,925 feet. Most of the slopes are moderate to gentle and the valley bottoms are relatively flat or low rolling hills. All of the watershed is within the Blackfoot River drainage. Blackfoot River Reservoir divides the area into a west half and an east half.

Vegetation zones vary from a marshland type around parts of Blackfoot River Reservoir through vegetation zones of sagebrush-grass, mountain brush, and forest types. The sagebrush-grass zone is the most extensive vegetation type; it extends from the lower valley bottoms up the slopes to relatively high elevations.

Land Use

Past use of the area has been primarily for grazing with mining, cropland agriculture, and recreation becoming more important. This sector of Idaho was, at one time, one of the largest shipping points for lambs in the United States. Up until World War I extensive flocks of sheep from Utah and Nevada grazed there during the spring, summer, and fall months. In 1919, Governor Alexander forced the formation of the Association. The main purpose for his action was to keep the out-of-state sheep off Idaho's state-owned lands, thus the name Idaho Citizen's Grazing Association.

In a range situation, sheep are watered every other day. These sheep have just taken their water and are beginning to move away in a loose grazing pattern.

—Photo by Wally Butler

How the Sheep Operations Work

The sheep operations that use these lands are typical ewe-lamb operations except for one yearling operator. Five of the ewe-lamb operations lamb on the range beginning in May, the remainder lamb in February and March under shed conditions.

The average ewe-lamb operation consists of about 3,400 head of ewes. The range in size of operation is from 800 to 7,000 head.

The sheep men move their animals to Association-controlled land about May 1, when range-lambing begins. In early July the sheep are moved to the Cache and Caribou National Forests. About one-half of the operators truck their sheep to the National Forests; the others trail their sheep. Lambs are weaned and sold in mid-September as the sheep are moved from national forest land back to Association range where they remain until about November 1. Most of the sheep are then trailed across the Fort Hall Indian Reservation on their way to public land administered by the Bureau of Land Management. Privately owned and leased lands provide forage for the sheep beginning in late December, but one operator winters on desert lands in Utah and Nevada. Shed lambing operations move to the lambing sheds in late January or early February. In late March or early April the sheep move from wintering areas to public lands of the Bureau of Land Management. They cross Fort Hall Indian Reservation lands in late April and arrive back on Association range by mid-May.

In range lambing the bucks are placed with the ewes in early December at a ratio of about one buck per 50 ewes. The rams stay with the ewes for about 40 days. Bucks of the black-faced breeds are used for commercial lamb production and bucks of the white-faced breeds are used for replacement ewe production.

Ewes are culled in the fall of the year. Some operators cull at the time the lambs are weaned, others wait until later in the fall. Culling is done on the basis of the condition of the teeth, age, soundness of udder and producing ability.

The range-lambing operations have an average lamb crop of about 105 percent at weaning time. Of the lambs weaned, 44 percent were fat lambs, weighing about 92 pounds, and 56 percent were feeder lambs, weighing about 80 pounds.

Shed-lambing weans a larger percentage of lambs than range-lambing and the percentage and weight of fat lambs from shed-lambing is also greater. Increased production occurs under shed-lambing because the ewes receive more individual attention; more lambs are saved. There is of course a larger labor cost with shed-lambing.

Objectives of the Study

The objectives of the study are (1) to ascertain the nutritional value of the forage available to the sheep, and (2)

to characterize the botanical and chemical composition of the diet of the sheep in relation to the nutritive requirements for optimum production.

These objectives are being accomplished by ascertaining the forage quantity and quality in the area, and by collection and analyses of the diet of normally grazing sheep. Forage work is done by use of production and phenology plots. Production samples are analyzed for available nutrients. The sheep diets are collected using esophogeal fistulated wethers. Botanical composition of the diet is ascertained using a modified version of the point-centered quadrat method of vegetation analyses.

Nutritional value of the diet actually consumed and the value of the forage available will be compared to sheep nutritional requirements as set down by the National Research Council. The adequacy or inadequacy of the diet will be evaluated and a system of grazing can then be developed.

The recommended system will be aimed at securing optimal sheep and lamb output based on nutritional value of the various range types.

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Time is but the stream I go fishing in.
I drink at it; but while I drink I see the sandy bottom and detect how shallow it is.
Its thin current slides away but eternity remains.

Henry David Thoreau

ELK-LEEGE
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range. The forest supervisor must make the decision that the area is going to be dedicated to elk range in the same manner that other areas are dedicated to timber production or campsites for recreation. The decision is made only after the proposal has been studied and recommendations have been made by forest service personnel specializing in the uses that will be affected by burning. Conflicts have been minimal because areas proposed for burning are normally poorly stocked with trees. Originally, prescribed burning was not done along highways for aesthetic reasons, but experience has shown that the burning evidence is only present for two or three months. Therefore, no attempt is now being made in most cases to hide these burns from the public. This is fortunate as some important winter ranges are on canyon walls adjacent to highways.

Additional Research is Needed

A great deal has been accomplished toward the goal of restoring the productivity of elk ranges in northern Idaho, but much work remains. Continued research is necessary to document long-term effects of burning and reburning on soil and vegetation. New burning techniques must be worked out along with devising better criteria for determining proper burning conditions and satisfactory areas for burning. We will continue to keep a close watch on the elk for indications that they are responding to our efforts in terms of increased calf crops and stabilized or expanding populations. Only when this occurs can we say that the burning program has been a success.

BOBCATS-BAILEY
continued from page 17

A bobcat population on a given area is composed of adults, immatures or nonbreeding individuals, and kittens. Only the adults remain year after year; the immatures are temporary residents; and the kittens disperse to other areas. When an adult dies, its place is taken by one of the immatures passing through the area. Apparently bobcats are able to detect each other's presence in an area. Although the manner in which this is accomplished is unclear, bobcats may use their droppings, or scats, to signal their presence. Scats are left in conspicuous locations such as near cave entrances, rock outcrops, and along the rims of craters — places where other bobcats would pass by. The scats in these "marking areas" could function as follows: fresh mark — bobcat nearby, area occupied, going on involves the danger of an encounter; a less fresh mark — proceed with caution; an old mark — go ahead. A bobcat, before passing such a mark, would deposit its own scat, thus advertising its presence. The age and sex of bobcats using these marking areas and the time of year they are used varies. Thus the "marking" function is complex.

As one delves into the lives of bobcats, one discovers how little we really know about them. Regardless of how long we study he will always retain much of his mystery — silent, curious, stealthy and seldom seen — a truly wild creature in a wild environment.

Alumni Directory

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ADAIR ROBERT A
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AGTE STEVE D
AHLER ERNEST E
AHLSKOG HOWARD E
AHRENHOLZ FREDERICK W
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ANDERSON BERNARD A
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ANDERSON SCOTT M
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ANDREWS DARALD
ANDREWS DUANE S
ANDREWS LYLE W
ANDREWS MILTON D
ANDREWS RUPERT E
ANDRUS DALE
ANGELL HERBERT W
ARGYLE JOSEPH D
ARMOUR CARL
ARMSTRONG JAMES P
ARNASON ALLAN T
ARNESON LAWRENCE N
ARNOLD DALE L
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AVERETT ROBERT C
BACHMANN ROGER W
BAHR THOMAS G
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BAILEY EDWARD D
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BAKER GARY E
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BECK BRYCE
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BLM FED CTR BLD 50	DENVER	COLO	80225
220 N E CONIFER AVE	CORVALLIS	ORE	97330
1617 S EASYWAY	ANAHEIM	CALIF	92804
RT =2 BISHOP ROAD	KNOXVILLE	TENN	37918
413 IDAHO	BOISE	IDAHO	83702
PO BOX 1143	QUINCY	CALIF	95971
1621 N 60TH ST	LINCOLN	NEB	68505
316 LILY ST	MOSCOW	IDAHO	83201
ST OF IDA FOR DEP	OROFINO	IDAHO	83544
520 N 19TH ST	COEUR DALENE	IDAHO	
BOX 5	MCCALL	IDAHO	83638
FED BLDG USFS	MISSOULA	MONTANA	59801
BOX 26	DONNELLY	IDAHO	83615
FED FISH HATCHERY	JACKSON	WYOMING	83001
BOX 122	HAYDEN LAKE	IDAHO	83835
BOX 753	MULLAN	IDAHO	83846
YAKIMA AGENCY BX261	WHITE SWAN	WASH	98952
PO BOX 707	BEND	ORE	97701
BOX 104	EAGLE	IDAHO	83616
FAO UNITED NATIONS	ROME	ITALY	
2002 E 28TH	TACOMA	WASH	98404
2716 REDWAY ROAD	BOISE	IDAHO	83704
390 S WATER AVENUE	IDAHO FALLS	IDAHO	83401
1509 HEMLOCK ST	LAKE OSWEGO	OREG	97034
BLM	DILLON	MONTANA	59725
2830 FLORIDA NE	ALBUQUERQUE	N M	87110
RTE 1 BOX 160	OROVILLE	WASH	98844
BOX 335	HAILEY	IDAHO	83333
ROUTE =1	RATHDRUM	IDAHO	83858
1430 RICHE CT	RICHLAND	WASH	99352
ROUTE 1	GOODING	IDAHO	83330
DRIFTWD=5 125 W 2ND	MESA	ARIZ	85201
MAC-SOG	APO SAN FRANC	CALIF	96222
1210 N ELLIOTT	COQUILLE	OREGON	97423
PLANT SCI DEPT U I	MOSCOW	IDAHO	83843
2208 TEVIS ROAD	SACRAMENTO	CALIF	95825
3102 S MANITO BLVD	SPOKANE	WASH	99203
3920 BALCHEN DRIVE	ANCHORAGE	ALASKA	99503
8901 BRAEBURN DR	ANNANDALE VA		22003
604 KANAHA STREET	LANIKAI OAHU	HAWAII	
IDAHO CITY RS	IDAHO CITY	IDAHO	83631
VETMEDICINE TEX A&M	COLLEGE STA	TEX	77843
RT 4 BOX 417-2	PORT ORCHARD	WASH	98366
606 OAKLEY PLACE	ALEXANDRIA	VA	22302
BOX 175	HEADQUARTERS	IDAHO	83534
12 & INDEP AVE USFS	WASH 25	D C	20250
U S F S	SANDPOINT	IDAHO	83864
2510 MULKEY	CORVALLIS	OREG	97330
RR =3	AMES	IOWA	50010
2139 JACKSON STREET	LACROSSE	WISCONSIN	54601
GALLATIN NAT FOREST	LIVINGSTON	MONT	59047
10803 KELMORE ST	CULVER CITY	CALIF	90230
RT 1 BOX 24	DICKINSON	N DAKOTA	58601
25 REDDING PLACE	OAKLAND	CALIF	94619
	MACKS INN	IDAHO	83433
C/O MONSANTO	SODA SPRINGS	IDAHO	83276
251 S 3RD E	SODA SPRINGS	IDAHO	83276
FOR SP FISH BLDG	DENVER	COLO	80225
1502 BALFOUR LANE	CINCINNATI	OHIO	45231
PO BOX 35	CRAIG	ALASKA	99921
BX 243 BUR LAND MAN	SHOSHONE	IDAHO	83352
677 CHAUTAUQUA BLVD	VALLEY CITY	N DAKOTA	58072
BOX 206	CLARK FORK	IDAHO	83811
645 PARK BLVD	ONTARIO	ORE	97914
6525 ROBERTSON DR	BOISE	IDAHO	83705
BOX 323	MEDORA	N DAKOTA	58645
RD =1 BOX 69	G BARRINGTON	MASS	01230
STAR ROUTE	DIXON	MONTANA	59831
BOX 396	PARMA	IDAHO	83660
FOREST SCIENCES LAB	BOZEMAN	MONT	59715
ROUTE 1 BOX 13	ATHOL	IDAHO	83801
BOX 21	EAGAR	ARIZ	85925
332 S MICH RM 1836	CHICAGO	ILL	60604
2715 DAVENPORT AVE	DAVENPORT	IOWA	52803
BLM BOX 1867	IDAHO FALLS	IDAHO	83401
225 HILLSIDE AVE	PIEDMONT	CALIF	94611
LAKE ST FOR EXP STA	GRAND RAPIDS	MINN	55744
2307 MARKET ST	CHEHALIS	WASH	98532
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1614 ALISO DR NE	ALBUQUERQUE	N M	87110
DEP NATURL RESOURCE	SULTAN	WASH	98294
525 AVILA RD	SAN MATEO	CALIF	94402
3315 S PROCTOR	TACOMA	WASH	98409
BOX 297	CAREY	IDA	83320
DNR BOX 381	SHAWANA	WISC	54166
RT =2 BOX 130	POCATELLO	IDAHO	83201
HARBALD APTS BOX 81	FRANKLINTOWN	PENN	17323
4918 DUFFER R NW	ALBUQUERQUE	N MEXICO	87114
811-23RD AVE NW	NEW BRIGHTON	MINN	55112
217 LAKEVIEW	AMERY	WISC	54001
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45 VALENTINE RD	BRIARCLIFF	N Y	10510
WIND RIVER NURSERY	CARSON	WASH	98610
BOX 511	SHOSHONE	IDAHO	83352
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RT 2 BOX 20	BEND	ORE	97701
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110 RITCHIE AVENUE	TRAIL	B C	
2802 W BANNOCK	BOISE	IDAHO	83706
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612 MOORE	MOSCOW	IDAHO	83843
75 NIGHTENGALE =216	GULF BREEZE	FLA	
SOIL CONSERVA SERV	ABERDEEN	IDAHO	83210
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CABLE DWIGHT R
CAIN GARY L
CALLAWAY GEORGE R
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CAMERON ROBERT L
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CAMPBELL JESSE L
CAMPBELL JOHN D
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CANADY MICHAEL L
CANFIELD ELMER R
CANTRELL HARMON R
CAPELLEN JIM E
CAPLES JAMES W
CAPORASO ALESSIO P
CARD ANDREW J
CARLSON CHARLES E M
CARLSON MELVIN R
CARMICHAEL JAMES E
CARMICHAEL RALPH L
CARPENTER ROBERT S
CARPENTER STANLEY B
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CARTER JAMES C
CARY ORVILLE B
CASEY OSBORNE E
CAZIER SAMUEL E
CHANDLER DEAN B
CHATTERTON CLEVE E
CHEN CHUNG-HSIEN
CHEN TOU
CHERRY PARLEY E
CHICKEN ROBERT B
CHOMLIS JOHN
CHOUINARD MARVIN B
CHRISTENSEN DAVID L
CHRISTENSON GENE L
CHRISTIANSEN NEILS B
CHRISTY DAVID A

USFS RNG & WILDLIFE	WASH	D C	20250
FORESTRY U OF MONT	MISSOULA	MONT	59801
2619 GN MARSHALL NE	ALBUQUERQUE	NEW MEX	87112
US FOR SERVICE	GRANGEVILLE	IDAHO	83530
1133 W HIGHLAND	REDMOND	OREGON	97756
RT 1 3RD & MANSELL	QUINCY	CALIF	95971
1021 VIRGINIA AVE S	MOSCOW	IDAHO	83843
107 N SECOND ST	WILLIAMS	ARIZONA	86046
495 EAST 13TH ST	IDAHO FALLS	IDAHO	83401
ROUTE =1	EPHRATA	WASH	98823
BOX 503	SMELTERVILLE	IDAHO	83868
723 N 4TH	MONTEVIDEO	MINN	56265
RM 4230 S AGR BLDG	WASHINGTON	D C	20250
NORTHERN REGION FIO	LAMPANG	THAILAND	
BX 133 AVERY RGR ST	AVERY	IDAHO	83802
969 CRESCENT ST	PLACERVILLE	CALIF	95667
811 N WASHINGTON ST	CENTRALIA	WASH	98531
DEPT NAT RES BX 480	FORKS	WASH	98331
4310 GHARRETT RT 3	MISSOULA	MONTANA	59801
BOX 62	GORDONSVILLE	TENNESSEE	38563
BOX 4043	IDAHO CITY	IDAHO	86361
BOX 4043	IDAHO CITY	IDAHO	83631
1182 E 3100 N	OGDEN	UTAH	84404
BOX 523	MILL CITY	OREGON	97360
RT 3 BOX 157	GAITHERSBURG	MD	20760
PO BOX 546	CUBA	N MEXICO	87013
912 ELM AVENUE	COEUR DALENE	IDAHO	83814
806 PECAN ST	CROSSETT	ARK	71635
3519 13TH STREET	LEWISTON	IDAHO	83501
BOX 72	AVERY	IDAHO	83802
114 NORTH IDAHO	GRANGEVILLE	IDAHO	83530
RANGE CONSERV SCS	POST	TEXAS	79356
711 NORTH FOREST	SANDPOINT	IDAHO	83864
605 G ST SW	WASHINGTOND C		20024
PO BOX 30	CASCADE	IDAHO	83611
CLEAR CRK CIV CONS	CARSON CITY	NEV	89701
BOX 547	WARMSPRINGS	ORE	97761
37 ALGONQUIN WOOD	WEBSTER GROV	MISSOURI	63119
BLACKROCK RGR STA	MORAN	WYO	83013
1660 BROOKHURST ST	MEDFORD	OREG	97501
BOX 143	MCCALL	IDAHO	83638
201 W 46TH ST	VANCOUVER	WASH	98665
RT =1	MISSOULA	MONT	59801
2784 GRIFFIN CK RD	MEDFORD	OREGON	97501
888 S ORANGE GROVE	PASADENA	CALIF	91105
WASH ST DEPT GAME	MT VERNON	WASH	98273
725 EAST E ST	MOSCOW	IDAHO	83843
BOX 802	PITTSBORO	N C	27312
BOX 153	KENTON	MICH	49943
	ASH FLAT	ARKANSAS	72513
BOX 1348	OMAK	WASH	98841
1435 GERALD AVE	MISSOULA	MONT	59801
ROUTE 1 BOX 162	ROCHESTER	N H	03867
RT 2	MANCHESTER	IOWA	52057
1625 HENRY LANE	MCKINLEYVIC	ALIF	95521
PO BOX 2570	ASHEVILLE	N C	28802
1020 EAST F	MOSCOW	IDAHO	83843
105 PRINCESS APTS	POCATELLO	IDAHO	83201
COOP WILDL RES VPI	BLACKSBURG	VA	24061
30 INSPIRATION DR	SUSANVILLE	CAL	96130
RT 2 BOX 63	RIGBY	IDAHO	85442
EXT FOR U OF I	MOSCOW	IDAHO	83843
407 PROSPECT AVE	NORTH WALES	PA	19454
2519 COLLEGE AVE	BERKELEY	CALIF	94303
518 N MAIN STREET	CLINTON	TENNESSEE	37716
735 N 3RD STREET	MONTROSE	COLORADO	81401
2036 THORNBURG DR	LARAMIE	WYOMING	82070
80 STEPHEN DRIVE	PLEASANTVLLEN	Y	10570
2825 NW 35TH	OKLAHOMA	OKLAHOMA	73112
PO BOX 245	BERKELEY I	CALIF	94704
330 ALTURAS DRIVE	TWIN FALLS	IDAHO	83301
BOX 4460	TUCSON	ARIZONA	85717
ST REGIS R D	ST REGIS	MONTANA	59866
358 AMHERST	LAVERNE	CALIF	91750
1800 SHEPARD AVE	MT CARMEL	CONN	06518
ROUTE 1 BOX 201	HAYDEN LAKE	IDAHO	83835
324 MOBLEY DRIVE	BOISE	IDAHO	83706
DEPT BOTANY U OF M	ORONO	MAINE	04473
6914 SIESTA DRIVE	MISSOULA	MONT	59801
C/O SOIL CONS SER	TOWNER	N DAKOTA	58788
5230 148TH ST SW	EDMONDS	WASH	98020
CHALLIS NAT FOR	MACKAY	IDAHO	
330 FIRST AVE	MONTE VISTA	COLO	81144
6916 SUNSET TERRACE	DES MOINES	IOWA	50311
PLANT PATH U ARIZ	TUCSON	ARIZ	85721
ROUTE 2 BOX 37	SANDPOINT	IDA	83864
DEPT OF NAT RES	CATHLAMET	WASH	98612
C/O COLERA MINING	NORTH FORK	IDAHO	83466
1631-27TH ST	OGDEN	UTAH	84403
DEPT NAT RES	VANCOUVER	WASH	98660
2037 VESTA WAY	SACRAMENTO	CALIF	95825
2512 REDWAY RD	BOISE	IDAHO	83704
451 CASSELMAN G5	CHULA VIST	CALIF	92010
FOREST RES LAB OSU	CORVALLIS	OREGON	97331
312 S WASHINGTON	MOSCOW	IDA	83843
DEPT OF FOR U OF K	LEXINGTON	KY	40506
363 PARK AVENUE	E HARTFORD	CONN	06106
PO BLDG USFS	PROVO	UTAH	84601
P O BOX 81	PARADISE	CALIF	95969
PO BLDG FIRE STAFF	BAKER	OREGON	97814
U S FOREST SERVICE	KALISPELL	MONT	59901
	AFTON	WYOMING	
APARTADO POSTAL 485	GUAYAQUIL	ECUADOR	
BOX 2111	POCATELLO	IDAHO	83201
CAMPUS COURT 26 OSU	CORVALLIS	OREGON	97330
NATL TAIWAN UNIV	TAIPEI	TAIWAN	CHINA
PO BOX 5767	DENVER 17	COLO	80217
SIUSLAW NATL FOREST	HEBO	ORE	97122
1800 AVE OF STARS	LOS ANGELES	CALIF	90067
103 E 3RD ST	COSMOPOLIS	WASH	98537
201 SOUTH MAIN ST	FREMONT	NEBRASKA	68025
ROUTE 4	SPARTA	WISCONSIN	54656
STATE U COLL OF FOR	SYRACUSE	NEW YORK	13210
RT 1 BOX 772	QUINCY	CALIF	95971

CHRONIC RYDER W
CHUGG FREDERICK M
CHUPP NORMAN R
CLACK JAMES H
CLARK BURTON O
CLARK DEWEY E
CLASON JAMES P
CLAUSEN MELVIN D
CLEAVELAND ELBERT C
CLEMENTS ROBERT E JR
CLONINGER RUSSELL T
CLOSNER FORREST H
CLUBB WILLIAM F
COATS DURWOOD F
COATS ROBERT T
COCHRAN ALLAN R
COCHRANE ROBERT B
COLE GENE F
COLLINS BENJAMIN F
COLWELL BRUCE E
COLWELL JOSEPH A
COMPAGNONI PANFILO
COMSTOCK DONALD E
CONKLIN DAVID G
CONNAUGHTON CHARLES A
COOK FREDERICK T
COOK LEROY L
COONROD MELVIN A
COOPER BRUCE
COPES DONALD L
COPPICK SYDNEY
CORAY EDWARD A
CORLETT JON C
CORNELL BLAINE L
COSSITT FLOYD M
COSTALES PATRICK G
COUCH JOSEPH JR
COVER JACK E
COX DAVID R
CRANDALL JOHN A
CRANSTON WILLIAM V
CRAWFORD FRANK R
CRAWFORD JAMES R
CRAWFORD JOHN E JR
CRAWFORD KENNETH J
CRNKOVICH DAVID C
CRONEY THOMAS J
CROOKS JAMES R
CROSNO ROBERT G
CROUCH GLENN L
CRUZ EUGENIO DE LA
CRYDER MICHAEL J
CULP TRYGVE H
CUMMINGS LEWIS A
CUNNINGHAM RUSSELL N
CURNES GERALD L
CURRIER WILBUR F
CURTIS ALAN B
CURTIS HARRY J III
CURTIS LEVERETT B
CZERWINSKI MICHAEL H
DABBS WILLIAM V
DAHL BILLIE E
DAHMEN HAROLD
DANIELS JESS D
DANIELS KENNETH M
DANIELS LARRY L
DANIELS WILEY W
DARST EDWARD J
DAVIDSON WILLIAM J
DAVIS BRENNAN B
DAVIS JAMES L
DAVIS JERRY A
DAVIS MERRILL S
DAVIS ROBERT
DAVIS STERLING P
DAY STANLEY G
DEAN DANIEL L
DEAN RONALD E
DECKER IVAN C
DEMARCHI DENNIS A
DEMASTERS STEVE B
DEMEYER JOHN R
DEPREE JAMES W
DESHLER WILLIAM O
DETLEFSEN WILLIAM D JR
DEWEY LYNN M
DEWEY MICHAEL L
DICK JAMES JR
DICKISON JAMES R
DIFFENDAFFER JAMES D
DILLON COL FRANCIS H
DINGMAN THEODORE E
DISSELBRETT DAVID A
DIXON GERALD E
DODD JACK B
DOLL GILBERT B
DOTY ROBERT D
DOUGLAS DONOVAN L
DOUGLAS JOHN F
DOUPE WOODROW W
DOWNING JOSEPH C
DREW LARRY A
DREWEK JOHN JR
DREYER WILLIAM H
DRIVER WILLIAM R
DUDLEY ROBERT R
DUFFY JERRY L
DUNGAN JAMES L
DUNN CHARLES A
DUTTON LAWRENCE A
EASTERBROOK PAUL W
EASTMAN EUGENE A
EBERHARD MILTON K
EBY DAVID O
EDGINGTON JOHN RICHARD
EDLEFSEN JIM
EDMUNDSON ELDON H JR
EDWARDS CHARLES H
EDWARDS DOUGLAS F
EDWARDS JOHN R
EDWARDS MILTON B

RT 3 BOX 38 DEER PARK WASH 99006
BOX 123 AVERY IDAHO 83802
9029 FASHION DR SACRAMENTO CALIF 95826
PO BOX 8669 ENSLEY BIRMINGHAM ALA 35218
PO BOX 245 BERKELEY CALIF 94701
604 JEFFERSON RICHLAND WASH 99352
B L M MEDFORD ORE 97501
9409 BURNETT DR BOISE IDAHO 83705
BOISE CASCADE CORP BOISE IDAHO 83701
BX 63 PINE GROV INNWINCHESTER IDAHO 83555
5724 S 3RD ST ARLINGTON VA 22204
2642 MCKINNEY BOISE IDAHO 83704
BOX 25 JEROME IDAHO 83338
INYO NATL FOREST MAMMOTH LAKECALIF 93546
1016 N 29TH BOISE IDAHO 83706
3626 GREENLAND AVE ROANOKE VIRGINIA 24012
LOWER TRIN RGR DISTSALYER CALIF 95563
KRASSEL RANGER STATMCCALL IDAHO 83638
909 WEST NYE LANE CARSON CITY NEVADA 89701
1040 NO 23RD ST COEUR DALENE IDAHO 83814
204 E N CENTRAL TUSCOLA ILLINOIS 61953
812 W 4TH STREET MEDFORD OREGON 97501
USFS SALMON RIV RD RIGGINS IDAHO 83549
E 1217 26TH AVE SPOKANE WASH 99203
PO BOX 3623 USFS PORTLAND ORE 97232
BLM 729 NE OREGON PORTLAND ORE 97232
210 JACKSON ST BX92PRIEST RIVER IDAHO 83856
FOREST SERVICE BLDGOGDEN UTAH 84401
312 W 28TH VANCOUVER WASH 98660
FOREST SCIENCES LABCORVALLIS OREGON 97330
SCOTT PAPER CO CHESTER PENN 19015
1220 SOUTH 3RD RENO OREGON 97701
224 N W 14TH ALBANY ORE 97321
50 S VIRGINIA ST RENO NEV 89504
5911 HILDERBRAND NEATLANTA GEORGIA 30328
PO BOX 363 WAIMEA KAUAIHAWAII 96796
USFS 50 7TH ST NE ATLANTA GA 30308
PRIEST LAKE RS RT 5PRIEST RIVIDAHO 83856
WESTOVER PK APT 14DDURHAM N C 27701
W 3019 BROAD SPOKANE WASH 99208
BOX 731 LAKE CITY FLORIDA 32055
2310 CONANT DR BURLEY IDAHO 83318
BEAR SPRINGS RGR STMAUPIN OREGON 97037
3200 LOURAINECIRCLESANTA FE NEW MEX 87501
3370 EIGHTH DRIVE BAKER OREGON 97814
239 EAST 11TH IDAHO FALLS IDAHO 83401
2960 PEARL ST EUGENE OREGON 97405
3190 N ATLANTIC AVECOCOA BEACH FLORIDA 32931
BOX 622 KINGS BEACH CALIF 95719
225 EAST 17TH AVE OLYMPIA WASH 98501
PO BOX 2121 MANILA PHIL
1528 7TH AVE E TWIN FALLS IDA 83301
BOX 686 OKANOGAN WASH 98840
SAN ISABEL NAT FOR LAVETA COLORADO 81055
1465 N CLEVELAND ST PAUL MINN 55108
1821 DIXON AVE MISSOULA MONT 59801
FED BLD 517 GOLD SWALBUQUERQUE N M 87105
1408 EMERSON ST NW WASHINGTON D C 20011
RT 2 BOX 280G MONROE WASH 98272
11040 14TH AVE NE SEATTLE WASH 98125
TROUT CRK RGR STA TROUT CREEK MONTANA 59874
BOX 83 FOWLER KANSAS 67844
RNG MGMT TEXAS TECHLUBBOCK TEXAS 79406
628 S HAYES MOSCOW IDAHO 83843
926 L STREET CENTRALIA WASH 98531
240 NOWELL AVENUE JUNEAU ALASKA 99801
BOX 475 RIGGINS IDAHO 83549
BOX 932 SALMON IDAHO 83467
LAKE CITY CALIF 96115
403 SECOND BOX 471 PINEHURST IDAHO 83850
3311 COUNTY CLUB LNSACRAMENTO CALIF 95821
P O BOX R SOLDOTNA ALASKA 99669
OKANOGAN NAT FORESTWINTHROP WASH 98862
KANIKSU NAT FOREST TROUT CREEK MONTANA 59822
5165 CARLINGFORD RIVERSIDE CALIF 92504
SOILS UNIV OF CALIFRIVERSIDE CALIF 92507
140 NORTH 18TH AVE POCATELLO IDAHO 83201
GENERAL DELIVERY HINES OREGON 97738
ANIMAL SCIENCE OSU CORVALLIS OREGON 97330
128 NORTH 14TH ST POCATELLO IDAHO 83201
943 VICTORIA ST KAMLOOPS B C
SWEET IDAHO 83670
WASHOUGAL HONOR CMPWASHOUGAL WASH 98671
1394 WALENTA DRIVE MOSCOW IDAHO 83843
FOREST SERV BLDG KEMMERER WYO 83101
1245 E 11TH ST FREMONT NEB 68025
1605 INDIANA NE ALBUQUERQUE N M 87110
1830 S THURSTON ALBANY ORE 97321
411 REYNOLDS AVE CENTRALIA WASH 98531
R R 1 BONNER FERRYIDAHO 83805
1714 ABBS BOISE IDAHO 83705
9204 MARIA AVE GREAT FALLS VA 22066
981 ELIZABETH APT 1SAN FRAN CALIF 94114
1239 CHESTNUT #13 CLARKSTON WASH
ENTIAT RANGER STA ENTIAT WASH 98822
BOX 816 WHITEFISH MONT 59937
3034 CIRCLE WAY OGDEN UTAH 84403
ROUTE 1 ENDICOTT WASH 99125
6822 NORTHVIEW BOISE IDAHO 83704
655 CODY COURT DENVER COLO 80215
USFS 210 MAIN ST BOISE IDAHO 83702
MANTI RANGER DIST MANTI UTAH 84642
BOX 22613 ROBBINSDALE MINN 55422
1109 S 15TH AVE WAUSAU WISC 54401
KICK HORSE FOR PRODGOLDEN B C
305 E STORY BOZEMAN MONTANA 59715
928 E D ST MOSCOW IDAHO 83843
ROUTE #1 COLBERT WASH 99005
5552-39TH NE SEATTLE WASH 98105
PO BOX 122 ST JOHN WASH 99171
PO BOX 1992 ANCHORAGE ALASKA 99501
RT 2 BOX 271-A EMMETT IDAHO 83617
SUNSHINE STAR RTE KELLOGG IDAHO 83837
ROUTE 2 BLACKFOOT IDAHO 83221
10432 JOEL LANE RANCHO CORD CALIF 95670
315 E 8TH HOLDENVILLE OKLA 74848
1202 LONGMONT AVE BOISE IDAHO 83706
45C N FAIRWAY PULLMAN WASH 99163
5818 CLOVER DR OAKLAND CALIF 94618
822 ST MARIES AVE COEUR DALENE IDAHO 83814
DEP NATURL RESOURCEOLYMPIA WASH 98501
186 ORR ST AUBURN CALIF 95603

EGGER BRUCE E
EGGLESTON JAMES EUGENE
EIJE JOHNSON U
ELG HAROLD CARL
ELLER DOUGLAS D
ELLER NANCY K
ELLIS FRANCIS G
ELLIS IRWIN D
ELLISON LAURENCE N
EMERSON RAYMOND R
EMMINGHAM WILLIAM H
EMMONS ROBERT H JR
EMORY DONALD MILES
ENDRESS WILLIAM C
ENGLAND ALAN G
ENGLER GEORGE N
ENGSTROM LOUIS A
ENGWER JOHN CLIFFORD
ENSIGN WILLIAM W
ENTER KARL W
ERHART DENNIS R
ERICKSON DAVID J
ERICKSON DAVID L
ESTES KENNETH
ESTHEIMER CARMON H
EUBANKS JAMES O
EUBANKS THOMAS R
EVANS GARY R
EVANS GEORGE H
EVANS THOMAS C
EVEREST FRED H
EYRAUD EUGENE E
EZEH IGNATIUS O
FALLINI JOE T
FALTER CONRAD M
FANDRY DONALD D
FARMER EUGENE E
FARMER LOWELL J
FARNSWORTH DENNIS I
FAULKNER DAVID R
FAVOR FRANK J
FEE MAX W
FELLIN DAVID G
FELTMAN JOHN H
FENDER MONTE E
FERGUSON ROBERT M
FICKE HERMAN O
FICKES EARL M
FIELD WALTER D
FIFIELD CHARLES E
FILLMORE JOHN E
FINN LAWRENCE E
FINN RALPH A
FINNEY DONALD L
FISHBURN JAMES R
FISHER JEAN E
FISHER LESTER C JR
FLANIK GERALD R
FLICKINGER DAVID L
FOLSOM LEWIS L
FOLTZ WAYNE G
FORBES ROBERT H
FOSTER WILLIAM L
FOWLER LAURIE GARTH
FOX CHARLES E
FRANCE THOMAS J
FRANCIS JOHN K
FRAYER HUME C
FRAZIER GEORGE D
FRAZIER JOE L
FRAZIER ROBERT A
FREDERIC JACK L
FREEMAN ETHAN W
FRENCH LARRY C
FRIER JAMES C
FROEMING DENNIS K
FROST RAYMOND W
FRYBERG LAWRENCE W
FULCHER GLEN D
FULLER JAMES R
FULTON LESTER R
FURNISS ALAN B
FURNISS RICHAND A
GAFFNEY WILLIAM S
GALBRAITH ALLAN W
GALBRAITH MARLIN C
GALE LEE R
GANSEL CHARLES R
GARDNER GEORGE R
GARDNER RAYMOND C
GARIN GEORGE I
GARRETT ALLEN E
GARTEN ROY E
GARTEN WILBUR V
GARTHE GERALD M
GENAUX CHARLES M
GHEEN EDWARD C
GIBBONS CHARLES W
GIBBS THOMAS E
GIBSON HARRY R
GIFFORD JERRY L
GILBERT RUFUS S
GILBERT VALE O JR
GILBERTSON HENRY W JR
GILES THOMAS F
GILLETTE JACK E
GILLHAM NORMAN F
GISSEL HARVEY W
GLADFELTER HAROLD LEE
GLAZEBROOK THOMAS B
GLEAVES WILLIAM W
GLENCROSS HAROLD J
GLOVER ROBERT K
GODDARD MILTON E
GOEBEL CARL J
GOLDBLUM RUDOLPH
GOLDING EDWARD J III
GOLDSMITH WARREN H
GOLLAHER JOHN R
GOOD VERNON A
GOODNIGHT WILLIAM JR
GORDON CHARLES D

BOX 754 POMEROY WASH 99347
3835 S 7TH WEST MISSOULA MONTANA 59801
N A COURT YANGEDDE OTURKPO BP NIGERIA
341 LAVA STREET IDAHO FALLS IDAHO 83401
RT 1 BOX 1-A MILTON FLA 32570
739 N CITRUS ST PENSACOLA FLA 32505
COPELAND IDAHO 83822
RR 1 BOX 146 CHEHALIS WASH 98532
BOX 63 STERLING ALASKA 99672
1387 1/2 SUNSET AVEARCATA CALIF 95521
727 NW 35TH ST CORVALLIS ORE 97330
7410 CLOVERNOOK CINCINNATI OHIO 45231
RT 5 CRASER DR BOISE IDAHO 83705
W 3009 ROSEWOOD AVE SPOKANE WASH 99208
BUR OF LAND MGMT COOS BAY OREGON 97420
2412-5TH AVE SO GREAT FALLS MONT 59401
612 BEECH KEMMERER WYO 83101
213 W FOSTER COEUR DALENE IDAHO 83814
635 SOUTH 4TH WEST MISSOULA MONTANA 59801
321 CONNISTON RD A W PALM BEACHFLA 32405
14446 SE 16TH BELLEVUE WASH 98004
NATL FISH HATCHERY COOKS WASH 98615
816 GREENFIELD DR COLUMBUS OHIO 43223
US FOREST SERVICE SUSANVILLE CALIF 96130
360 SE SPRUCE AVE GRESHAM ORE 97030
INST OF PAPER CHEM APPLETON WISCONSIN54911
1524 W 10TH ST STILLWATER OKLA 74074
123 IMPERIAL PLACE POCATELLO IDAHO 83201
BOX 344 KETCHUM IDAHO 83340
320 W FILLMORE COLO SPRINGSCOLO 80907
160 SLEEPY HOLLOW GRANTS PASS OREGON 97526
P O BOX 88 LOVELOCK NEVADA 89419
AGRICUL FORESTRY ENUGU NIGERIA
RM 334 FEDERAL BLDGBOISE IDAHO 83702
904 WEST A MOSCOW IDAHO 83843
ROUTE =2 POST FALLS IDAHO 83854
WATER RES UTAH ST ULOGAN UTAH 84321
3239 CHICAGO AVE RIVERSIDE CALIF 92501
1442 CHELTON RD COLO SPRINGSCOLO 80909
WALLACE RANGER STA WALLACE IDAHO 83873
1036 N 23RD COEUR DALENE IDAHO 83814
FEDERAL OFFICE BLDGOGDEN UTAH 84401
USFS FEDERAL BLDG MISSOULA MONT 59801
7 BROOK PLACE OSSINING N Y 10562
BOX 181 COOS BAY OREGON 97420
US FOREST SERVICE SANDPOINT IDAHO 83864
METALINE FLSWASH 99153
PO BOX 1428 PROVO UTAH 84601
3405-5TH ST E LEWISTON IDAHO 83501
CIVILN CONSERVA CTRCURLEW WASH 99118
1004 FAIRWAYTERRACEABERDEEN WASH 98520
BOX 374 COUNCIL IDAHO 83612
COBALT RANGER DIST SALMON IDAHO 83467
4003 BARANOF KETCHIKAN ALASKA 99901
L&C NF BELT CR RD NEIHART MONTANA 59465
NY RANGER SCHOOL WANAKENA NEW YORK 13695
2257 GAILS AVENUE CHEHALIS WASH 98532
US FS IDAHO CITY IDAHO 83631
CASILLA 588 TALCA CHILE
USFS FEDERAL BLDG MISSOULA MONT 59801
US FOREST SERVICE COUNCIL IDAHO 83612
6620 NW MARINE DR VANCOUVER B B C
PO BOX 397 TROY KANS 66081
3042 LOUISIANA LONGVIEW WASH 98632
232 N CALVADOS AVE AZUSA CALIF 91702
3319 N 27TH TACOMA WASH 98407
BOX 3277 UNIV STA MOSCOW IDAHO 83843
25 EAST WALNUT ST JEFFERSON OHIO 44047
1612 POMANDER RD BOISE IDAHO 83705
US FOREST SERVICE CIRCLEVILLE UTAH 84723
2705 GAITHER ST SE WASHINGTON D C 20031
E 1217 EMPIRE SPOKANE WASH 99207
816 W MAIN SOUTH VALE ORE 97918
RR=1 BOX 48 POTLATCH IDAHO 83855
2921 HOLLY ROAD SANTA BARBARCALIF 93105
609 EAST E MOSCOW IDAHO 83843
RANGER STA STAR RT LEAVENWORTH WASH 98826
BOX 85 KINGSTON IDA 83839
5003 WENRUTH PL ANNANDALE VA 22003
ROUTE =3 CALDWELL IDAHO 83605
1612 W SUSSEX MISSOULA MONTANA 59801
294 E 50 N SMITHFIELD UTAH 84335
ROUTE 2 ORCHARD AVEMOSCOW IDA 83843
811 THIRD ST LEWISTON IDAHO 83501
13409 SE CLATSOP PORTLAND ORE 97236
3082 CIRCLE WAY DR OGDEN UTAH 84403
427-11TH AVE ST MARIES IDAHO 83861
119 RODGEWOOD DR LAKE CITY FLORIDA 32055
BOX 125 GALESVILLE WISCONSIN54630
N HAVEN HEIGHTS KALISPELL MONT 59901
DEPT FOR AUBURN U AUBURN ALABAMA 36830
2232 18TH STREET CHEHALIS WASH 98532
614 REED LANE ABERDEEN WASH 98520
BOX 1275 OROFINO IDAHO 83544
STATE U COL SYRACUSE NEW YORK 10310
COLLINS PINE CO WARREN PENN 16365
200 DORIAN DRIVE ONTARIO OREGON 97914
RED ROCK LK NW REF MONIDA MONTANA 59744
304 LAUREL AVE LIBERTYVILLEILLINOIS 60048
252 LIVERPOOL RD LEXINGTON KENTUCKY 40504
RT =1 BOX 15 SOUTHWICK IDAHO 83550
DORSET VERMONT 05251
U S FOREST SERVICE GOLD BEACH ORE 97444
DAVEY TREE EXPERT CKENT OHIO 44240
BOX 1728 SANTA FE N MEXICO 87501
1911 N BEACH BOISE IDAHO 83704
909A PINE ST BENTON KENTUCKY 42025
PAYETTE IDAHO 83661
827 FRAZIER TOPEKA KANSAS 66606
7809 BRISTOW DR ANNANDALE VIR 22003
2353 OAKWAY TERRACEEUGENE ORE 97401
BOX 1030 COEUR D'ALIDAHO 83814
MURPHY LK RANGE STAFORTINE MONT 59918
RR =1 NELSON B C
PO BOX F LAGRANDE ORE 97850
BOX 37C HAYDEN LAKE IDAHO 83835
CASILLA 57 CAUQUENES CHILE
741 N DAVIS WEED CALIF 96094
669 CATLINA WAY LOS ALTOS CALIF 94022
414 ALDERWAY BLDG PORTLAND ORE 97222
432 E COURT WEISER IDAHO 83672
904 W A MOSCOW IDA 83843

GORSUCH HOWARD L
GORSUCH ROBERT V
GOSLING KENNETH R
GOSZ JAMES R
GOULD VIRGIL A
GOYER RICHARD A
GRABAN JAMES R
GRAHAM DONALD P
GRAHAM GUY C
GRAVELLE PAUL J
GRAY DALLAS N
GRAY GENE M
GRAY JOHN W
GRECO VERNELDO
GREEN HAROLD S
GREEN ROBERT L
GREENE EDWIN G
GREENFIELD SAMUEL F
GREENWAY GORDON H
GREGG JAMES B
GREICHUS ALGIRDAS
GROOM JACK I
GROSVOLD HALLVARD
GROVE GERALD H
GROVER ERNEST T
GROVES BRUCE V
GUERNSEY ROGER L
GUERNSEY WILLIAM G
GUSTAFSON JOHN R
GUSTAFSON PHIL S
GUTZMAN WILSON C
HAAG WILLIAM S
HABIB PHILIP C
HAGEDORN CHESTER L
HAGSTEN JOHN E
HAHN HERBERT D
HAIGHT WILLIAM R
HALL ARTHUR C
HAMILTON WILBUR R
HAMM HORLEY H
HAMMILL ALTON W
HAMNER BENGT H
HAMPF FREDERICK E
HANKS DAVID L
HANKS LEW E
HANNA PAUL L
HANSEN EDWARD D
HANSON JOHN A
HARBERD JAMES W
HARDY WILLIAM E
HARLAN GEORGE W
HARLAN PAUL M
HARMS DARWIN S
HARMS JAN C
HARRINGTON PAUL E
HARRIS CHALON A
HARRIS GRANT A
HARRIS HAROLD L
HARRIS ROBERT W
HARRIS RODNEY
HARRIS THOMAS H
HARRISON DARROL L
HARRISON KENNETH E
HARSHMAN EDMUND P
HART GARY D
HARTLEY RICHARD F
HASH HOWARD S
HATCH ALDEN B
HATCH H T
HATCH ROGER C
HAUFF RICHARD T
HAUMONT THOMAS W
HAUPT HAROLD F
HAUXWELL DONALD L
HAWKSWORTH FRANCIS G
HAY JOHN A
HAYES GEORGE L
HAYES JOHN F
HAZELBAKER DON
HEADY HAROLD F
HECK DAVID W
HECKATHORN BUHEL R
HEEBNER GORDON C
HEEZEN KEITH L
HEFFNER PHILLIP M
HEIMER JOHN T
HEINRICH RICHARD
HEINZ THOMAS A
HEISER FLOYD B
HEITMANN ALEXANDER JR
HELLE JOE T
HELLE JOHN H
HELLER THOMAS H
HENDERSON CLIFFORD J
HENTGES ROBERT J
HERBERT JOHN M JR
HERBST JOHN R
HERMAN KENNETH E
HERNVALL RONALD L
HERRON JOHN O JR
HERTEL JAMES P
HESS DENNIS E
HETZEL GEORGE K
HICKS GEORGE W
HIGGINS RICHARD R
HIGGINSON LELAND C
HIGGS GREGORY L
HILL EDWARD B
HILL PHILIP W
HILL ROBERT B
HIRONAKA MINORU
HIRSCHBERG SAUL B
HITT WRIGHT
HJORT GEORGE V
HOBBA ROBERT L
HOBBS BENNIE C
HOCH FRANCIS E
HOCKADAY JAMES M
HODDER RICHARD L
HODGE RICHARD S
HODGES CHARLES S
HOELKE ROY H

RT 1 BOX 278 COLVILLE WASH 99114
USFS KALISPELL MONT 59901
210 WELLINGTON RD MINEOLA NEW YORK 11501
BIO SCI DARTMOUTH UHANOVER N HMPSHRE03755
ASPEN COLO 81611
6120 CENTURY AVE MIDDLETON WISCONSIN53562
600 S WALNUT BOISE IDAHO 83706
6809 GILLINGS ROAD SPRINGFIELD VIRGINIA 22150
BOX 155 LEWISTON IDAHO 83501
834 W C ST MOSCOW IDA 83843
6704 CASSELBERRY W SAN DIEGO CALIF 92119
634 HUGHES DR PAYETTE IDAHO 83661
4641 WESTON ROAD LAMESA CALIF 92041
PO BOX 194 TAYLOR ARIZ 85939
515 SHORE PINES AVECOOS BAY OREGON 97420
2530 GRANDVIEW BLVDWAUKESHA WISCONSIN53186
RT 1 PLUMMER IDAHO 83851
SOIL CONSERVAT SER BEND OREGON 97701
4703 BRAND STREET BOISE IDAHO 83705
SEATTLE GUN CLUB REDMOND WASH 98052
S DAKOTA STATE COL BROOKINGS S DAK 57006
RT 2 BOX 16 SHERWOOD OREGON 97140
BOISE CASCADE CORP COUNCIL IDAHO 83612
BOX 4 USFS THORNE BAYALASKA 99950
3227 BONANZA LANE CARSON CITY NEVADA 89701
6908 ASHLAND DR BOISE IDAHO 83705
3418 MT VIEW DRIVE BOISE IDAHO 83704
1806 HARRISON BLVD BOISE IDAHO 83702
RUSSELL NATL RANGE LEWISTON MONTANA 59457
RT 1 BOX 38 OKANOGAN WASH 98840
402 JULIE DRIVE GALLUP N MEXICO 87301
1409 BIRCH AVE COEUR D'ALIDAHO 83814
FOREIGN SER MAIL RMWASHINGTON D C
28 NORTH WALNUT ST DILLON MONTANA 59725
TALMOON RURAL STA DEER RIVER MINNESOTA56637
GROVELAND RANGER STGROVELAND CALIF 95321
624 WYLDWOOD ALAMEDA IDAHO 83201
IDAPINE LUMBER CO GRANGEVILLE IDA 83530
BOX 711 MTN HOME IDAHO 83647
USFS IRONWOOD MICH 49938
612 SW 5TH ST PENDLETON OREGON 97801
LK WENATCHEE RG STALEAVENWORTH WASH 98826
221 N NORWINDEN DR SPRINGFIELD PENN 19064
520 MCBRYDE W MONTESANO WASH 98407
PO BOX 787 PALMER ALASKA 99645
410 S LILLY APT 11 MOSCOW IDAHO 83843
126 SE 5TH AVENUE M-FREEWATER OREGON 97862
BOX 18 NAPLES IDA 83847
BOISECASCADE BX 200BOISE IDAHO 83707
VALHALLA MARINE RT COEUR DALENEIDAHO 83814
1303 11TH ST LEWISTON IDAHO 83501
1155 LINDA VISTA AVPASADENA CALIF 91103
ROUTE #3 NAMPA IDAHO 83651
BOX 4962 DUKE STA DURHAM N C 27706
P O BOX 253 GRANGEVILLE IDA 83530
RURAL ROUTE 3 FAIRFIELD ILLINOIS 62837
1401 UPPER DRIVE PULLMAN WASH 99163
BOX 415 ABERDEEN IDAHO 83210
4107 SW VERMONT PORTLAND OREGON 97219
BLM BURLEY IDAHO 83318
45 RALSTON AVE MILL VALLEY CALIF 94941
245 BIRCHWOOD DR BILLINGS MONTANA 59201
BOX 653 SHOSHONE IDAHO 83352
879 TAMARACK ST EUGENE ORE 97401
BOX 342 WALLACE IDAHO 83873
4624 GAGE STREET BOISE IDAHO 83704
ROUTE 4 BOX 54 MOSCOW IDAHO 83843
PETERBORO NEW YORK 13134
303 N JEFFERSON ST MOSCOW IDAHO 83843
2231 S OAK GROVE SPRINGFIELD MO 65804
320 W FILLMORE ST COLO SPRINGSCOLO 80907
PO BOX 4097 PORTLAND OREGON 97208
FOR SCIENCES LAB MOSCOW IDAHO 83843
PO BOX 252 BLUE LAKE CALIF 95525
DIV FOR DIS RES CSUFORT COLLINSCOLO 80521
2811 HILL ROAD BOISE IDA 83703
105 PALMER DRIVE FT COLLINS COLO 80521
607 W 109 TERRACE KANSAS CITY MO 64114
RT 1 BONNERS FRY IDAHO 83805
PROF OF FOR UOC BERKELEY CALIF 94707
12 TOWER RD HINGHAM MASS 02043
SCS ELKO NEVADA 89801
PO BOX #5 CANBY CALIF 96015
RT 1 8252 CLARK RD E LANSING MICH 48823
SEELEY LAKE MONT 59868
C/O AL J HEIMER MENTOR KANSAS 67465
PO BOX 209 FRUITLAND IDAHO 83619
5868 QUEEN ANNE CT DAYTON OHIO 45424
BOX 56 NEWPORT WASH 99156
PO BOX 152 SUNOL CALIF 94586
BOX 461 DILLON MONT 59725
BIOLOGICAL LAB AUKE BAY ALASKA 99821
BLM DENVER SER CEN DENVER COLO 80225
RR 3 LACOMBE ALBERTA
N CASCADES NAT PARKMARBLEMOUNT WASH 98267
BTTY B 1 BN 7TH ARTAPO SAN FRANCALIFORNI96345
U OF I COL OF FOR MOSCOW IDAHO 83843
WASH ST DEPT NA RESVANCOUVER WASH 98661
BOX 451 NORDMAN IDAHO 83848
3363 L ST EUREKA CALIF 95501
BOX 123 POTLATCH IDAHO 83855
4308 FORTUNE AVE LAS VEGAS NEVADA 89107
1305 E PARK DRIVE EVANSVILLE IND 47715
BOX 4 FERNWOOD IDAHO 83830
RT 1 BOX 950 ASTORIA OREGON 97103
1037 E JACKSON COLO SPRINGSCOLO 80907
P O BOX 700 VALE OREGON 97918
620 S MONTANA AVE MILES CITY MONTANA 59301
1407 E FRANKLIN BOISE IDAHO 83702
200 DAVEY GLEN ROADBELMONT CALIF 94002
921 MAYBELLE MOSCOW IDAHO 83843
RT 2 BOX 322A M-FREEWATER OREGON 97862
121 POWERVILLE RD MT LAKES N JERSEY 07046
111 CRESTLINE DR BOISE IDAHO 83705
USFS USDA S BLDG WASHINGTON D C 20250
116 MURRAY STREET BOISE IDAHO 83704
763 CHURCH ST NE SALEM OREGON 97301
PAYETTE NATL FORESTMCCALL IDAHO 83638
PORCUPINE RANCH GALLATIN GTYMONT 59730
RT 5 PRIEST LAKE RSPRIEST RIVIDAHO 83856
BOX 5397 ST COL STARALEIGH N C 27607
615 S BUCKNELL AVE CLAREMONT CALIF 91711

HOFSTRAND ARLAND D
HOGANDER SAMUEL G
HOIDOS RODNEY R H
HOLL ROYALE G
HOLLETT GEORGE K
HOLMER LEE M
HOLT BURTON W
HOLTBY RALPH B
HOLTON CARL L
HOOK GARY L
HOOK JOHN R
HOOKER LARRY L
HOOTS THOMAS A
HOPPER ROBERT E
HORN FREDERICK W
HORN RICHARD L
HORN WILLIAM J
HORNING DONALD JR
HOSKINS LEONARD W
HOSKINS PAUL A
HOSS STEVEN A
HOSSFELD RALPH L
HOUSE GERALD D
HOWARD DAVID R
HOWARD HARRY W JR
HOWARD VOLNEY W JR
HOWLAND JAMES R
HOWSE NORMAN R
HOYE JOHN
HRONEK BRUCE B
HSIEH KUO-TSING
HSIN LIANG
HUBBELL EARL J
HUBER DEAN W
HUBERT JEFFREY J
HUCKINS EDDIE O
HUDSON RUSSELL H
HUFF WALLACE M
HUGHES JOHN M
HULTMAN ANDERS B
HUME JOHN F JR
HUNGERFORD CHARLES R
HUNGERFORD KENNETH E
HUNGERFORD ROGER D
HUNT JOHN D
HUNT LOUIS D
HUNTER ERNEST L
HUNTER HAROLD C
HURSEY ROBERT A
HUTCHINS FLOYD E
HUTCHISON EARL R
HYDE NEIL S
HYDER DONALD N
IMGARD ALLEN W
IMHOFF LEO F
INGERSOLL THEODORE R
INT-MOUT PATTERSON B
JACKSON JAMES K
JACOBS CARL C
JAMES CORLAND L
JAMES MORRISON R
JANECEK CHARLES A
JANKOWSKI EDWIN J
JAQUISH EDWIN
JASPERS PHILIP M
JAY JAMES W
JAYNE BEN A
JEFFERS DWIGHT N
JEMISON GEORGE M
JEMMETT COY G
JENNESS BENNING F
JENSEN GENE S
JENSEN NORMAN R
JEPPESEN MARVIN
JEPPSON JERALD P
JEPSEN STANLEY M
JOHANNESEN MARK M
JOHNSEN RAYMOND
JOHNSON ARTHUR B
JOHNSON CHARLES G JR
JOHNSON DANIEL J
JOHNSON DEAN W
JOHNSON DENNIS F
JOHNSON FREDERIC D
JOHNSON GARY S
JOHNSON HOWARD E
JOHNSON JAMES W
JOHNSON KEITH A
JOHNSON KENDALL L
JOHNSON LAWRENCE C
JOHNSON MICHAEL
JOHNSON REX S
JOHNSON ROBERT A
JOHNSON ROBERT B
JOHNSON THANE J
JOHNSON VON JEROME
JOHNSTON ROYAL H
JONES JOHNNY J
JONES ROBERT E
JONES WILLIAM D
JOSLYN GORDON E
JUDD HUGH H JR
JUST RICHARD D
KAERCHER TERRY W
KALK GORDON F
KAPEL FRANK J
KASPER JAMES G
KASSING CECIL A
KASTBERG RUSSELL P
KAUFFMAN HAROLD D
KAUFFMAN LYLE R
KAUTZ EDWARD W
KAYE DAVID M
KEATING JAMES F JR
KEENEY LARRY M
KEHRER KENNETH
KEIBLER RAYMOND C
KEMP PAUL D
KENNEDY FRED H
KENNEDY ROBERT J
KENNEY JOHN P
KENNON PAUL G

COL OF FOR U OF I MOSCOW IDAHO 83843
1414 N 18TH BOISE IDAHO 83702
8718 CROMWELL DRIVESPRINGFIELD VA 22151
BLM FEDERAL BLDG DENVER COLO 80202
229 BENTLY DR E FAIRBANKS ALASKA 99701
3342 WASHBURN AVE MINNEAPOLIS MINN 55412
P O 1127 ROSEBURG OREGON 97470
503 HUNTER ST MOSCOW IDAHO 83843
7028 STANLEY AVE ST LOUIS MISSOURI 63143
870 JACKSON ST KETCHIKAN ALASKA 99901
235 HIGH ST QUINCY CALIF 95971
ROUTE 1 BOX 880A MTN HOME IDAHO 83647
C/O USFS BOX 1295 SONORA CALIF 95370
2474 AUHUHU ST PEARL CITYHAWAII 96282
PO BOX 357 COLUMBIA S CAR 29202
8355 W STATE ST BOISE IDA 83702
BOX 313 PALOUSE WASH 99161
1402 POTTER RICHLAND WASH 99352
1342 CEDAR STREET ELKO NEVADA 89801
USFS DEER LODGE MONT 59722
BOX 145 HOPE IDAHO 83863
U OF M WOOD CHEM ST PAUL MINN 55101
SYLVANITE RG ST RT1TROY MONT 59935
RT 2 BOX 1351 LIBBY MONT 59923
PO BOX 800 ONTARIO CALIF 91761
BX 3044 U PARK STA LAS CRUCES NEW MEX 88001
BOX 723 PLYMOUTH N C 27962
2321 VALLEY VIEW MISSOULA MONT 59801
217 SALERNO RD FORT ORD CALIF 93941
1358 LEWIS DRIVE OGDEN UTAH 84404
PO BOX 126 MT CARROLL ILL 61053
FORESTRY U OF I MOSCOW IDAHO 83843
1314 N PUGET ST OLYMPIA WASH 98501
10418-24TH AVE E TACOMA WASH 98445
U OF A PL PATH DEPTTUCSON ARIZONA 85721
BOX 229 BROADUS MONTANA 59317
STAR ROUTE 1 LIBBY MONT 59923
KOOTENAI NATL FOR TROY MONT 59935
GLIDE RANGER STA GLIDE ORE 97443
VERADALE WASH 99037
141 NINTH ST LEWISTON IDAHO 83501
ZOOL DEPT U OF ARIZTUCSON ARIZ 85721
COL OF FOR U OF I MOSCOW IDAHO 83843
FSL 1221 S MAIN MOSCOW IDAHO 83843
COL OF FOR UTAH ST LOGAN UTAH 84321
DEER PARK WASH 99006
ROUTE 4 RUPERT IDAHO 83350
2989 INDIAN CRK DR BISHOP CALIF 93514
FORESTRY HUMBOLDT UARCATA CALIF 95521
C/O L E HUTCHINS WEIPPE IDAHO 83553
PO BOX 479 SITKA ALASKA 99835
PO BOX 1048 WHITEFISH MONT 59937
RM 272 S HALL C S UFORT COLLINSCOLO 80521
BOX 531 ABERDEEN IDAHO 83210
4119 ANITRA CIRCLE COLO SPRINGSCOLO 80907
206 S WASHINGTON PRESCOTT ARIZ 86301
USFS WENATCHEE N F WENATCHEE WASH 98801
2538 MAKIKI HEIGHTSHONOLULU HAWAII 96822
USFS MAGRUDER RS HAMILTON MONT 59840
2501 INGLEWOOD RD BOISE IDAHO 83705
540 FAIRHAVEN PORTERVILLE CALIF 93257
1116 SO 8TH ST PLATTSMOUTNEB 68048
1203 WASH AVE CLOQUET MINN 55720
5319 FROSTY LANE MADISON WISC 53705
PO BOX 1056 FORKS WASH 98331
RT 1 BOX 602 COTT GROVE ORE 97424
COL OF FOR U OF W SEATTLE WASH 98105
4118 N 38TH TACOMA WASH 98407
3920 NW ELIZABETH CORVALLIS ORE 97330
ROUTE 5 CALDWELL IDAHO 83605
2318 N 172 ST SEATTLE WASH 98133
735 E 14TH STREET IDAHO FALLS IDAHO 83401
ROUTE 2 KUNA IDA 83634
KEATING OREGON 97847
270 W RAMONA RIGBY IDAHO 83442
7205 OAK RIDGE CHEVY CHASE MARYLAND 20015
1825 NE SCHUYLER PORTLAND ORE 97212
2090 THOMPSON RD COOS BAY ORE 97420
BOX 109 OROFINO IDAHO 83544
COLLEGE OF FORESTRYMOSCOW IDA 83843
362 1/2 SE MAIN BLACKFOOT IDAHO 83221
240 N SHELDON ST RICHLAND CTRWISC 53581
BUREAU OF LAND MGMTSUSANVILLECALIF 96130
COL OF FOR U OF I MOSCOW IDAHO 83843
715 S W 28TH PENDLETON ORE 97801
2106 2ND ST NATCHEZ MISS 39120
ORE FOR PRO LAB CORVALLIS OREGON 97330
46 BOUNTY ST METUCHEN N J 08840
515-12TH STREET RAWLINS WYOMING 82301
2902 ADAMS ROAD CHEHALIS WASH 98532
624 N CURTIS ALHAMBRA CALIF 91801
BOX #7 MCCALL IDAHO 83638
312 DOUGLAS ST DALLAS OREGON 97338
704 S 19TH POCATELLO IDAHO 83201
165 S HOLLAND ST DENVER COLO 80226
GREEN HALL U OF MINST PAUL MINN 55101
1517 11TH AVENUE LEWISTON IDAHO 83501
ROUTE 3 BUHL IDAHO 83316
WATERFOWL RES STA DELTA MAN. CANADA
BOX 415 WEST POINT VIRGINIA 23181
1763 WAINWRIGHT DR RESTON VIRGINIA
160 W ANCHOR AVE EUGENE ORE 97402
PO BOX 602 ISLAND CITY OREGON 97851
RT 1 BUHL IDAHO 83316
BOX 2278 KET RGR STKETCHIKAN ALASKA 99901
1010 CALIFORNIA LIBBY MONT 59923
132 9TH AVE SW CALGARY ALBERTA
US FOR SERV FENN RSKOOSKIA IDA 83539
TIGER ST RT BX 39-4COLVILLE WASH 99114
BOX 52 OROFINO IDAHO 83544
PO BOX 417 PESHASTIN WASH 98847
SALMON RIVER DIST RIGGINS IDAHO 83549
2305 SE 121ST #14 PORTLAND ORE 97216
5203 HILL ROAD BOISE IDAHO 83703
PO BOX 628 SHOSHONE IDAHO 83352
BOX 55 MERCED CALIF 95340
505 BEST AVE COEUR DALENEIDAHO 83814
1829 TRAIL ST MISSOULA MONT 59801
RT 1 BOX 154A AUSTIN COLO 81410
211 GLENWOOD GRIFFITH IND 46319
C/O B OF L M COOS BAY OREGON 97420
15989 MT MATAHORN FOUNTAIN CALIF 92708

KENYON WALLACE E
KEUTER DONALD J
KHAN AZIZ A
KIFFMANN HELMUT O
KILJANCZYK CHARLES J
KIMPTON DAVID R
KIMPTON LLOYD G
KIMSEY DWIGHT W
KINDEL FREDRIC J
KINDSCHY ROBERT R JR
KING JAMES E
KING MALCOLM D
KING MAX R
KINKEAD CHARLES R
KIPP HENRY W
KIRKPATRICK ROBERT JR
KISSKA LESTER
KIZER RALPH O JR
KLASON RICHARD P
KLEBENOW DONALD
KLEHM DAVID S
KLEIN CARLOS G
KLIEWER ROBERT H
KLOPFENSTEIN LARRY W
KNAPP DAVID L
KNISPEK WILLIAM P
KNOERR KENNETH R
KNUTSON DAVID C
KOCH CHRISTIAN B
KOKKO GEORGE K
KOLAR FRANCIS L
KOPPES HERMAN M
KOSKELLA HOWARD R
KOTTKEY ROBERT H
KOWZAN JOHN P
KOZURA JOHN R
KRAEMER DR J HUGO
KRAJEWSKI RICHARD M
KRANTZ WILLIAM C
KRIER JOHN P
KRINARD ROGER M
KRUEGER OTTO C
KRUMMES WILLIAM T
KUCK LONN E
KUEHNER ROY C
KUENNEN LOUIS J
KYLE ALLAN D
KYTONEN AL E
LACHER THEODORE V
LACY THOMAS F
LADLE JOSEPH W
LAFFERTY GEORGE E
LAGE CLARENCE L JR
LAMPE CHRIS J
LANCE GILBERT W
LAND HENRY C JR
LANGDON OWEN G
LANGE KEITH O
LANNAN ROBERT J JR
LARSEN ALBERT T
LARSON DONALD S
LARSON LESLIE L
LASAN ABDU H
LATHEN CLIFFORD F
LATHROP ROBERT G
LAUER JERRY L
LAURENT THOMAS H
LAVEN EDWARD E
LAWSON JOHN F
LEA GEORGE D JR
LEACH HOMER P
LEACH TED
LEAVELL WILLIAM G
LEBARRON RUSSELL K
LEE BRUCE R
LEE GEORGE E
LEEGE THOMAS A
LEFEBVRE JOHN P
LEHRBAS MARK M
LEHRER WILLIAM P JR
LENON JON D
LENT GARY L
LENZ BERNARD L
LEONARD CECIL E
LETSON CLAIRE E
LEVY SEYMOUR H
LEYMASTER GARY M
LIBSTAFF ELDON D
LIEURANCE MAXWELL T JR
LIEURANCE ROBERT E
LIEVSAY LARRY R
LIGHT JEROME T JR
LINCOLN JAMES P
LINDBERG RALPH O
LINDSAY CLIVE J
LINDSTROM THOMAS C
LITTLE DAVID L
LLOYD DR RUSSELL O
LLOYD JOSEPH O JR
LLOYD WILLIAM J
LOBDELL CHARLES H
LOCKARD GORDON R
LODGE ROBERT W
LOGAN ERNEST R
LOHMAN RICHARD G
LOONEY RICHARD E
LORAIN GARWIN
LORD PHILIP B
LORENZ CHARLES W
LORENZ JERRY W
LORTS JACK G
LOW WILLIAM W
LOWDER MICHAEL D
LUCAS WILLIAM J
LUND ROBERT H
LUSCHER CHARLES W
LUTZ WAYNE R
LYMAN MICHAEL C
LYNCH JAMES
LYNGSTAD JOHN O
LYONS RAYMOND D
MAC GREGOR WARREN S

BOX 127	KELLOGG	IDAHO	83837
BOX 391	KLICKITAT	WASH	98628
32C-SEFFALIKE TOWN	RAWALPINDI	PAKISTAN	
10 EVERGREEN AVE	VINELAND	N J	08360
PO BOX 648	LEWISTON	IDAHO	83501
BOX 4	EAST ELY	NEV	89315
1815 S ASH PARK LN	BOISE	IDAHO	83705
S C S	WINNEMUCCA	NEVADA	89445
1104 THEO WAY	SACRAMENTO	CALIF	95822
BOX 306 BLM	VALE	OREGON	97918
ROUTE 3 BOX 124	CENTRALIA	WASH	98531
RT #1 BOX 129	UKIAH	CALIF	95482
U S FS PO BLDG	ELKO	NEVADA	89801
2504 DAVIS ST	BOISE	IDAHO	83702
ROCKY BOY ROUTE	BOX ELDER	MONT	59521
P O BOX 2289	SALEM	OREGON	97308
5587 HIGHBURRY ST	VANCOUVER	B C	
OTTAWA NAT FOR USFS	IRONWOOD	MICHIGAN	49938
2582 WESTSHIRE CIRC	SALT LAKE	UTAH	84119
TEXAS TECH BOX 4169	LUBBOCK	TEXAS	79409
KALISPELL LUMBER CO	KALISPELL	MONTANA	59901
487 PROGRESS AVE	WATERLOO	IOWA	50701
W 218 36TH	SPOKANE	WASH	99203
LAKE ARROWHEAD RGR	SKY FOREST	CALIF	92385
12313 28TH NE	SEATTLE	WASH	98125
BOX 288	NEW MEADOWS	IDAHO	83654
DUKE UNIV SCH FOR	DURHAM	N C	27706
7300 132 AVE NE	KIRKLAND	WASH	98033
506 LEWIS ST	MORGANTOWN	W VA	26505
1005 OAK	NEGANNEE	MICHIGAN	49866
21901 53W	MOUNTLAKE TR	WASH	98043
136 MESA VISTA DR	BOISE	IDAHO	83705
FIRE OFF PAYETTE NF	MCCALL	IDAHO	83638
BX 1209 CLEARWTR NF	ORofino	IDAHO	83544
RR #1 BOX 52A	DU QUOIN	ILLINOIS	62832
P O BOX 484	MORRISVILLE	N Y	13408
PO BOX 371	PERU	NEW YORK	12972
2215 E WYLLYS CT	MIDLAND	MICH	48640
735 E 11TH ST	IDAHO FALLS	IDAHO	83401
403 WHITAKER DRIVE	MISSOULA	MONT	59801
DELTA BRANCH EXP ST	STONEVILLE	MISS	38776
PO BOX 3227 B L M	SALEM	ORE	97302
BUR SPT FISH & WLDF	ALBUQUERQUE	N M	87101
IDA FISH & GAME	SALMON	IDAHO	83467
U S F S	CREEDE	COLO	81130
1643 S 12TH ST	MISSOULA	MONT	59801
310 HAMILTON ST 1	ROME	NY	13440
2304 11TH AVE	LEWISTON	IDAHO	83501
2482 JOINER COURT	DECATUR	GA	30033
1832 VINEWOOD BLVD	ANN ARBOR	MICH	48104
BOX 292	SALMON	IDAHO	83467
3009 SUNSET DRIVE	GOLDEN	COLO	80401
RT 2 BOX 135	KAMIAH	IDAHO	83536
107 FOSTER AVE	SAYVILLE	N Y	11782
RR #3	PONOKA	ALBERTA	
RT #1 BOX 536	FORT BRAGG	CALIF	95437
PO BOX 334	CHARLESTON	S C	29402
1269 LENEVAR DR	CHARLESTON	S C	29407
312 E SPRUCE ST	SLT ST MARIE	MICH	49783
4898 CARMEN AVE N	SALEM	ORE	97303
	CUSICK	WASH	99119
PO BOX 122	WESTMINISTER	MASS	01473
PMB 12	BAUCHI	NIGERIA	
524 RIDGE ROAD	MOSCOW	IDAHO	83843
BLM	UKIAH	CALIF	95482
COL OF FOR U OF I	MOSCOW	IDAHO	83843
PO BOX 740	JUNEAU	ALASKA	99801
104 LEGGET	DILLON	MONT	59725
2159 ARTHUR	KLAMATH FLLS	ORE	97601
4515 QUALITY ST	FAIRFAX	VA	22030
PO BOX 247	DEATH VALLEY	CALIF	92328
EMORY HALL LOGGING	ELK RIVER	IDAHO	83827
1241 EL SUR WAY	SACRAMENTO	CALIF	95824
#1001 1415 VICTORIA	HONOLULU	HAWAII	96822
101 POSHARD ST	PLEASANT HILL	CALIF	94523
FBI	PHILADELPHIA	PA	19407
RT 1 BOX 3	KAMIAH	IDAHO	83536
WEYERHAEUSER	SNOQUALM FAL	WASH	98066
704 LOWICH BUILDING	NEW ORLEANS	LA	70130
CARNATION BUILDING	LOS ANGELES	CALIF	
12915 63 AVENUE	EDMONTON	ALBERTA	
ROUTE #2	BLACKFOOT	IDAHO	83221
3778 SCHNEIDER ROAD	TOLEDO	OHIO	43614
322 MARION AVENUE	SANDPOINT	IDAHO	83864
122 W 4TH AVE	CHEYENNE	WYO	82001
RR #9 BOX 960	TUCSON	ARIZONA	85702
4332 PROSPECT DRIVE	CARMICHAEL	CALIF	95608
EVERGREEN TRLR PARK	MOSCOW	IDAHO	83843
BUR LAND MANAGEMENT	VALE	OREGON	97918
BUR LAND MANAGEMENT	VALE	OREGON	97918
2822 N 32ND ST	BOISE	IDAHO	83703
10228 GAUL WAY	SPRING VALLY	CALIF	92077
ST JOE NATL FOREST	ST MARIES	IDAHO	83861
3112 RUERENDIR 209	SOUTH BEND	IND	46615
1550 CONANT AVE	BURLEY	IDAHO	83318
105 N ENGLAND #G-2	SUMMIT	N J	07901
1700 SOUTH LATAH	BOISE	IDAHO	83705
RESEARCH U S F S	WASH	D C	
PO BOX 3141	PORTLAND	OREG	97208
304 LANGFORD RD	BROOMALL	PENN	19008
9330 CHERRY HILL RD	COLLEGE PARK	MD	20740
1804 MILO WAY	EUGENE	OREGON	97401
BOX 780 EXPT STA	SWIFT CURRENT	SASKATCHN	
DICKINSON COLLEGE	DICKINSON	N DAK	58601
WEYERHAUSER	COOS BAY	OREGON	97420
1916 CHERRY	BAKER	ORE	97814
501 E RANCHO DR #97	SPARKS	NEVADA	89431
STAR ROUTE	JANESVILLE	CALIF	96114
BOX 480	FORKS	WASH	98331
ST REGIS PAPER CO	GLENWOOD	WASH	98619
710 NE HOLLADAY ST	PORTLAND 12	OREGON	97232
109 NEW CASTLE ROAD	SYRACUSE	NEW YORK	13212
ROUTE 5	RUPERT	IDAHO	83350
11512 DEBORAH DRIVE	POTOMAC	MD	20854
555 CORDOVA RM 504	ANCHORAGE	ALASKA	99501
7016 VAGABOND DR	FALLS CHURCH	VA	22042
	MELROSE	WISCONSIN	54642
364 RAVINE PARK DR	LAKE FOREST	ILL	60045
8351 GRIDLEY AVENUE	WAUWATOSA 13	WISCONSIN	53213
608 SO 12TH ST	COEUR D'ALI	IDAHO	83814
1222 S DUDLEY ST	DENVER	COLO	80226
RT 2 BOX 980	CAMAS	WASH	98607

MACLEOD DOUGLAS W
MAGNUSON GERALD E
MAKARA FRANK R
MALCOLM JAMES W
MALHOTRA DES R
MALLET JERRY L
MALLORY WALTER A
MALONEY RALPH B
MALSED DAVID E
MANN PAUL T
MANNING JOHN E
MAPLE DR ROBERT
MARCH MAURICE W
MARCH RICHARD M
MARCHAND LEONARD S
MARCUSON PATRICK E
MARR GALEN R
MARR WILLIAM R
MARRON JAMES B
MARSHALL MARVIN M
MARTIN DONALD R
MARTIN DOUGLAS M
MARTIN GLENN F
MARTIN JACK M
MARTIN LEO J
MARTIN RONALD G
MARTIN STEPHEN T
MARTIN WARREN L
MARTINSEN CHARLES F
MARYOTT GLENN A
MATHESON LELAND A
MATHIS DAVID O
MATTHEWS DARREL I
MATTHEWS FRED W
MATTOX JAMES E
MATZKE VANCE G
MATZNER FRED T
MAUL DAVID C
MAUPIN LARRY S
MAUSER GREGG R
MC ALISTER ROBERT H
MC CONNELL BURT R
MC CULLOCH CLAY Y JR
MC MAHON ROBERT O
MCARTHUR ORVILLE B
MCARTHUR WILLIAM L
MCCARTHY JOSEPH
MCCARTHY RICHARD
MCCLURE NORMAN R
MCCONNEL LEE P
MCCONNELL ARTHUR J
MCCOOL STEPHEN F
MCCORMICK CHESTER A
MCCORMICK HENRY F
MCCRILLIS CARL P
MCCULLOUGH DEARL E
MCDONALD STEPHEN E
MCELWAIN KAYE F
MCEWEN HAROLD R
MCFREDERICK JACK W
MCGRATH CHAD L
MCGRATH PATRICK J
MCILVAIN PILLY G
MCKAHAN JAMES H
MCKENDRICK JAY D
MCLAUGHLIN RAYMOND F
MCLAUGHLIN ROBERT P
MCLEAN LARRY S
MCMANAMON DONALD R
MCMILLAN WILLIAM W
MCNAMARA WILLIAM S
MCNAUGHTON FINLEY H
MCNEILL GARY R
MEDFORD RULON L
MEISNER GARY E
MENEELY JAMES F
MERANDA JOHN W
MERRICK CONRAD G
MESKE THEODORE A
METLEN ROBERT
MEUHLETHALER CHARLIE J
MEYER RALPH O
MILES JOSEPH H
MILLER CHARLES I
MILLER DANIEL L
MILLER DOUGLAS R
MILLER LIONEL P
MILLER LOREN E
MILLER RAY A
MILLER SPENCER R
MILLER WILLIAM R
MINKS WENDELL D
MINTER ROBERT F
MITCHELL ROBERT C
MITCHELL WALTER P
MIZUKI JAMES H
MOE LARRY G
MOHAN JOSEPH M
MOLBERG JOHN M
MONDICH PETER L
MONELL BRUCE H
MONTGOMERY WILLIAM C
MOONEY JOHN A
MOORE DAVID H
MOORE RUSSELL T
MORGANROTH EARL S
MORROW WILLIAM J
MORSE RICHARD N
MORTON ALLEN D
MOUNTJOY JAMES T
MUEGGLER WALTER F
MUELLER WALDERMAR
MUNTHE BERT P
MUNTHER GREG L
MURDOCK LOWELL S
MURPHY BERNARD C
MYERS EDWARD D
MYERS ROBERT L
MYSTER THOMAS W
NAAB WALTER P
NADEAU LEON R
NAUGHTON VINCENT J

EDGEWOOD ROAD	OXFORD	CONN	06483
IDA BUR OF LAND MGT	BOISE	IDAHO	
29 ORANGE DRIVE	JERICKO	NEW YORK	11753
STAR ROUTE	MAHNOMEN	MINN	56557
MALHATRS ST JAMMU	IKASHMIR	INDIA	
600 S WALNUT	BOISE	IDAHO	83703
PO BOX 284	KAMIAH	IDAHO	83536
4401 N RUBY ST	SCHILLER PK	ILL	
	PALOUSE	WASH	99161
105 WATER STREET	SEVILLE	OHIO	44273
RM 4092 STATE BLDG	FRESNO	CALIF	93700
353 CRESCENT DRIVE	SYCAMORE	ILLINOIS	60178
IDA STATE OFFIC BLM	BOISE	IDAHO	83702
	LINCOLNVILLE	ME	04849
45 BAYSHORE DR #11	OTTAWA 14	ONTARIO	
MONT FISH & GAME	RED LODGE	MONT	59068
BOX 104	WHISKEYTOWN	CALIF	96095
1430 BRYDEN DRIVE	LEWISTON	IDAHO	83501
1800 SECOND ST	SUSANVILLE	CALIF	96130
103 OAK ST	ELKINS	WEST VA	26241
BLM PO BOX 1139	COOS BAY	ORE	97420
BUR OF LAND MGMT	COOS BAY	ORE	97420
BUREAU OF LAND MGMT	SAFFORD	ARIZ	85546
3470 10TH	BAKER	OREGON	97814
190 MAE ST	UKIAH	CALIF	95482
322 12TH	ST MARIES	IDAHO	83861
106 E 27TH ST	CHEYENNE	WYO	82001
1255 SO OGDEN	DENVER	COLORADO	80210
C/O BOX 477	BLAINE	WASH	98230
706 S ELM	COLVILLE	WASH	99114
BOX 43 ROUTE 1	FIRTH	IDAHO	83236
USFS	NEW MEADOWS	IDAHO	83654
BLM	VALE	OREGON	97918
345 S BRIDGE ST	ST ANTHONY	IDAHO	83445
CO COMMUN COLLEGE	BEND	ORE	97701
5111 B WALNUT	GREAT FALLS	MONT	59401
1744 PETERSON AVE	MISSOULA	MONT	59801
630 SANSOME ST	SAN FRAN	CALIF	94111
1640 WILLOW LANE	TWIN FALLS	IDAHO	83301
FORESTRY U OF IDAHO	MOSCOW	IDAHO	83843
FORESTRY SCI LAB	ATHENS	GA	30601
PAC NW FOR EXP STA	WENATCHEE	WASH	98801
712 TYLER ST	TEMPE	ARIZONA	85281
PO BOX 571	CORVALLIS	OREGON	97330
12880 SW 121ST	TIGARD	OREGON	97223
719 N 4TH AVE	SANDPOINT	IDA	83864
U WASH GRAD SCHOOL	SEATTLE	WASH	98105
PACIFIC P & L	CENTRALIA	WASH	
BOX 328	NESPELEM	WASH	99155
RT 1 BOX 307M	COEUR DALENE	IDAHO	83841
1504 NW 6TH ST	GRANTS PASS	OREGON	97526
13672 HEWES AVENUE	SANTA ANA	CALIF	92705
BOX 626	LEWISTON	IDAHO	83501
107 ST HELENS PLACE	BEND	ORE	97701
BLM DIV RANGE USDI	WASHINGTON	D C	
821 MAINE AVE WEST	TWIN FALLS	IDAHO	83301
410 VISTA AVENUE	LEWISTON	IDAHO	83501
3330 STOCKBRIDGE	LOS ANGELES	CALIF	90032
BOX 248	NEW MEADOWS	IDAHO	83654
	SALMON	IDAHO	83467
	MIDDLETON	IDAHO	83644
27 QUEENSTON CRESNT	LONDON	ONTARIO	
BOX 195	BURLEY	IDAHO	83318
722 EMPIRE AVENUE	COEUR DALENE	IDAHO	83814
1034 GUIVERA CIRCLE	MANHATTAN	KANSAS	66502
USFS BOX 1628	JUNEAU	ALASKA	99801
60630 LATHEM TRAIL	JOSHUA TREE	CALIF	92252
COL OF FOR U OF I	MOSCOW	IDAHO	83843
ROUTE #1	OROFINO	IDAHO	83544
N 3916 CANNON	SPOKANE	WASH	99205
UNIV OF MASS	AMHERST	MASS	01002
3816 HOWARD ST	ANNADALE	VA	22003
207 BLAINE ST	NAMPA	IDAHO	83651
BOX 393	TONASKET	WASH	98855
145 J THAIN RD	LEWISTON	IDAHO	83501
1241 8TH AVE E	KALISPELL	MONT	59901
354 W GIBBON ST	LARAMIE	WYO	82070
345 MIDDLEFIELD RD	MENLO PARK	CALIF	94025
	KENDRICK	IDAHO	83537
BOX 112	UNITY	OREGON	97884
BOX 42	DAVENPORT	IOWA	52808
NEZ PERCE NF	GRANGEVILLE	IDAHO	83530
BOX 127	HINES	OREGON	97738
1321 SUNSET LANE	W LAFAYETTE	IND	47906
E 3134 16TH	SPOKANE	WASH	99203
107 NOVA DRIVE	PIEDMONT 10	CALIF	94611
C/O W C POST	BUHL	IDAHO	83316
72 LAKE FLOWER AVE	SARANAC LAKE	N Y	12983
STATE FORESTRY DEPT	BOISE	IDAHO	83702
1607 FOURTH AVE	LEAVENWORTH	KAN	66048
BOX 308	SILVER CITY	N MEXICO	88061
562 N WAVERLY	ORANGE	CALIF	92667
706 1/2 HARRISON	MOSCOW	IDAHO	83843
BOX 786	MARSING	IDAHO	83639
RT 1 BOX 152-C	WILLOWS	CALIF	95988
5414 23RD AVE SO	SEATTLE	WASH	98108
	HURDSFIELD	N DAKOTA	58451
645 SO ELM	PRINEVILLE	OREGON	97754
809 BRANDER ST	BOTTINEAU	N D	58318
BOX 51	METALINE FLS	WASH	99153
DEP NATURL RESOURCES	FORKS	WASH	98331
605 BELMONT	CALDWELL	IDAHO	83605
FISH & GAME STAR RT	MACKAY	IDAHO	83251
3008 ARMADA ST	PT COQUILTAM	B C	
ROUTE 2	WENDELL	IDAHO	83355
1627 SUNSET	SEATTLE 16	WASH	98116
RT 2 BOX 46	COEUR DALENE	IDAHO	83814
CAL WESTERN UNIV	SAN DIEGO	CALIF	92106
USFS	RAWLINS	WYO	82301
811 RENTON AVE S	RENTON	WASH	98055
INT FORES MSC	BOZEMAN	MONT	59715
BOX 164	DUBOIS	IDAHO	83423
FOREST PROD LAB	MADISON	WISC	53701
625 EAST 17TH	IDAHO FALLS	IDAHO	83401
ROUTE 3	MERIDIAN	IDAHO	83642
RT 3 BOX 176A	DEER PARK	WASH	99006
PO BOX 154	MINIER	ILLINOIS	61759
302 S WEBBER DR	CHITTENANGO	NEW YORK	13037
517 NORTH 6TH ST	BISMARK	N D	58501
2801 S 15TH ST	SHEBOYGAN	WISC	53081
14309 SE ALDER ST	PORTLAND	OREGON	97233
109 E ALDER	ENTERPRISE	OREGON	

NEAL RICHARD H
NEEF THEODORE C
NEGLAY STANFORD B
NEGUS FREDRICK L
NELLIS CARL H
NELSON ARTHUR W
NELSON DEVON O
NELSON HARVEY F
NELSON JACK R
NELSON LT JG D G
NELSON WILBUR T
NERMOE PALMER J
NERO EDWARD T
NESS DARWIN D
NEW DOUGLAS W
NEWCOMB LAWRENCE S
NEWCOMB RUSSELL L
NEWCOMER FRED R
NEWELL MARVIN E
NEWMAN RULON J
NICHOLSON DONALD A
NICKLE DR WILLIAM R
NIELSEN EUGENE P
NIETZOLD GEORGE E
NIGH JOHN W
NIKNAM-ASL
NOBIS ROBERT S
NOBLE CLARK R
NOBLE EDWARD L
NOKES DR HERALD S
NORD DR EAMOR C
NORMAN C MONTGOMERY
NORMAN DENNIS E
NUGUES BERNARD H
OBERMEYER EDDY L
OBLOCK LOUIS W
OCONNER GERALD W
ODOM FRANK L
ODONNELL JAMES F
OGLE RICHARD A
OHS CHARLES A
OIEN WAINE E
OLASO LOUIS B
OLDSON HAROLD A
OLLIEU MAX M
OLSON JACK D
OLSON RICHARD J
OLSON ROBERT W
OPIE ROBERT S
ORCUTT RICHARD R
ORMISTON JOHN H
OSBORN FORREST G
OTTENFELD BRUCE B
OTTER FLOYD L
OWEN ROBERT C
PACHOTIKARN SOMPHONG
PAGELER DONALD T
PAINE LEE A
PALISIN JAMES J
PALMER ALBERT N
PARKER JAMES W
PARKER JOHN K
PARKER JOHN W
PARKER RICHARD D
PARKIN KENNETH F
PARKS HOMER W
PARR WILLIAM H JR
PARSON WILLIAM J
PARSONS DAVID E
PARSONS DONALD D
PARSONS PATRICK J
PASSMORE ROBERT W
PATRIE CARTHON R
PATTON ROBERT F
PAULSON ANTON H
PAYNE GENE F
PEARSON DAVID B
PEARSON MARSHALL P
PECHANEC JOSEPH F
PECK CHARLES S
PEDERSON WILLIAM L
PELLERIN ROY F
PENCE DAN T
PENCE FRED C
PENCE LEWIS L
PENCE NED N
PENNEY JOHN G
PEREIRA RONALDO A
PEREZ GERALD S
PEREZ RONALD C
PETERSEN ARTHUR J
PETERSEN CHARLES H
PETERSEN LEROY R
PETERSON DONALD E
PETERSON THEODORE R
PETZAK WILLIAM J
PFILF RICHARD
PHILLIPS THOMAS V
PICKELL WILLIAM L
PIEPER REX D
PIERSON WALTER W
PINHEIRO JAYME V
PINNOCK JOHN H
PISTORIUS DARREL G
PITKIN FRANKLIN H
PIZEL ROBERT E
PLATZ BOBBIE J
PLAYFAIR ROBERT L
PLYMALE GARVIN V
POLLARD HERBERT A
PORTER DONALD B
POTTER DALE R
POTTER GRANT B
POTTER JOSEPH A
POULTON CHARLES
POWERS RICHARD L
PRATER JAMES D
PRESBY RICHARD C
PRICE ELWIN H
PRICE GORDON J
PRIDMORE DONALD C
PRINGLE WILLIAM L

CROWN ZELLERBACH CATHLAMET WA 98612
1101 N 16TH ST BOISE IDAHO 83702
3003 SUNSET AVE BOISE IDAHO 83703
BOX 323 HINES OREGON 97738
C/O O M MOHNEY HAVILAND KANSAS 67059
170 MAGNOLIA AVE GLENDALE OHIO 45246
413 IDAHO ST BOISE IDAHO 83702
143 S KELSEY ST MONROE WA 98272
708 E 6TH MOSCOW IDAHO 83843
1016 E 9TH ST SHELDON IOWA 51201
37 N 3RD WEST REXBURG IDAHO 83440
UPHAM N DAKOTA 58789
824 UPLAND DRIVE SUNNYSIDE WASH 98944
1193 RALEIGH ST PAUL MINN 55108
326 PARK AVENUE MULLAN IDAHO 83846
101 DARTMOUTH AVE AVON EST GEORGIA 30002
USFS NEW MEADOWS IDAHO 83654
17760 OVERLOOK CIR LAKE OSWEGO ORE 97034
USFS GARDEN VAL IDAHO 83622
ROUTE 2 RIGBY IDAHO 83442
C/O E P HEANEY STERLING IDAHO 83278
USDA ARS CRD BELTSVILLE MD 20705
7810 MARTIN WAY OLYMPIA WASH 98501
13600 W GRAHAM ST NEW BERLIN WISC 53151
ROUTE 1 WORLEY IDAHO 83876
DEPT NAT RESOURCE TEHERAN IRAN
916 FOSTER AVENUE COEUR DALENE IDAHO 83814
1181 ALMOND AVE REDDING CALIF 96001
2426 FILLMORE AVE OGDEN UTAH 84401
MCCALL MED CLINIC MCCALL IDAHO 83638
USFS PO BOX 5007 RIVERSIDE CALIF 92507
11031 157 ST EDMONTON ALBERTA
2850 LEAR DRIVE CAPE GIRARDEAU MO 63701
1 AVENUE DU CHATEAU MEUDON FRANCE
ROUTE 3 BOX 50 EMMETT IDA 83667
820 DURANT STREET ASPEN COLORADO 81611
536 N HARLEM RIVER FOR ILL 60305
5615 PAGEANTRY ST LONG BEACH CALIF 90808
AM PLYWOOD ASSOC TACOMA WASH 98400
UTAH STATE UNIV LOGAN UTAH 84321
USFS GARDEN VAL IDAHO 83622
N 2410 BRADLEY RD SPOKANE WASH 99206
BOX 391 GLENNS FERRY IDAHO 83623
823 N FAIRVIEW BURBANK CALIF 91505
907 A PINEDELL MANR LUFKIN TEXAS 75901
EVANS PLYWOOD CORP MISSOULA MONT 59801
608 BLUE ST RICHLAND WASH 99352
BOX 861 COEUR DALENE IDAHO 83814
201 STONE STREET WALLA WALLA WA 99362
413 S ASBURY 3 MOSCOW IDA 83843
643 UTAH AVE BUTTE MONT 59701
721 IOWA ST BOISE IDAHO 83706
BOX 76 WINCHESTER ORE 97495
15 E DAYTON AVE FRESNO CALIF 93705
404 TROY DRIVE NEWPORT NEWS VA 23606
ROYAL FOR DEPT BANGKOK THAILAND
3200 LENOX AVE YOUNGSTOWN OHIO 44502
BOX 245 BERKELEY 1 CALIF 94701
291 EAST 195 STREET CLEVELAND OHIO 44119
3904 VAN BUREN NE ALBUQUERQUE N M 87110
BOX 499 SITKA ALASKA 99835
208 S STOUT BLACKFOOT IDAHO 83221
1119-37TH OGDEN UTAH 84403
BOX 95 CLARKIA IDAHO 83812
18 CLOVERHILL PARK BELFAST 4 N IRELAND
USFS NEW MEADOWS IDAHO 83654
ROUTE 3 BOX 237 MOSCOW IDAHO 83843
RT 1 BOX 38 PRIEST RIVI IDAHO 83856
ROUTE 1 DALLAS PENN 18612
BOX 666 PORT ORFORD OREGON 97465
DEARY IDAHO 83823
418 SONNY ST BLACKFOOT IDAHO 83221
7806 6TH AVE NW SEATTLE WASH 98107
UNIV OF WISCONSIN MADISON WISC 53706
620 FIRST ST HOQUIAM WASH 98550
ANIMAL SCIENCE MSU BOZEMAN MONTANA 59715
4321 FORTUNA WAY SALT LAKE CY UTAH 84117
SWAN LK RANGER STA BIGFORK MONT 59911
3129 POLK AVE OGDEN UTAH 84403
BOX 236 FAIRFIELD NEBRASKA 68938
BOX 223 CLARK FORK IDAHO 83811
2003 CLIFFORD PULLMAN WASH 99163
U S FOREST SERVICE SALMON IDAHO 83467
BRIDGEPORT R S BRIDGEPORT CALIF 93515
SOIL CONSERV SER POCATELLO IDAHO 83201
420 MAPLE EMMETT IDAHO 83617
BOX 168 OLYMPIA WASH 98501
SAOJOS412PIRACICABA SAO PAULO BRAZIL
INT FOR EXP STA BOZEMAN MONT 59715
41 PLYMOUTH ST MONTCLAIR N J 07042
5811 OBERLIN SEATTLE WASH 98105
1405 LAUREL STREET BOISE IDAHO 83704
2301 HWY 41 STURTEVANT WISC 53177
U S FOREST SERVICE NEW MEADOWS IDAHO 83654
502 N BOYER SANDPOINT IDAHO 83864
IDA DEPT PUB LDS SANDPOINT IDAHO 83864
CLEARWATER NAT FOR OROFINO IDAHO 83544
BOX 37 STAR RTE SUPERIOR MONT 59872
ROUTE 4 BOX 53 HOQUIAM WASH 98550
N M STATE UNIV LAS CRUCES N MEXICO 88001
GENL DEL COUNCIL IDAHO 83612
HORTO FLOR RIOCLARO EST S PAULO BRAZIL
RIGBY IDA 83442
1024 BANCROFT COEUR DALENE IDAHO 83814
UNIV OF IDAHO MOSCOW IDAHO 83843
CREEDE RGR DIST CREEDE COLORADO 81130
902 INDIAN DRIVE OLYMPIA WN 98501
BOX 248 LAME DEER MONTANA 59043
34052 51ST AVE S AUBURN WN 98002
6521 BUTTE BOISE IDAHO 83704
REMINGTON INDIANA 47977
10445 RAINIER AVE S SEATTLE WASH 98178
BOX 305 DINUBA CALIF 93618
629 N SHERIDAN WAUKEGAN ILL
OREGON STATE UNIV CORVALLIS OREGON 97331
SULA RANGER STATION SULA MONTANA 59871
CROWN ZELLER CORP CATHLAMET WA 98612
ROUTE 1 VIOLA IDAHO 83872
BUREAU OF LAND MGMT ELKO NEVADA 89801
1119 S HAYES MOSCOW IDAHO 83843
BOX 22 RICHFIELD IDAHO 83349
CANADA EXPT STATION BEAVERLODGE ALTA

PRITCHETT JOHN A
PROCOPIO RICHARD D
PUGH LAWRENCE R
PYKE RONALD W
PYRAH DUANE B
QUEEN MARVIN R
QUEENER GERRY
QUESNEL CLINTON C
QURESHI MUHAMMAD A
RACELY GEORGE J
RAGAN REED E
RALEIGH ROBERT F
RANDOLPH TERRY B
RANKINEN RICHARD W
RATHBUN JAMES F
RATLIFF DONALD E
RAUBACH ROBERT T
RAVENSCROFT ALLAN B
RAVENSCROFT VERNON
RAWLINGS WILLIAM W
RAWSON LILAS L
REA ROBERT B
REAY DAVID B
REDETZKE KEITH A
REDMAN ELLIOT E
REEB MICHAEL C
REED ROBERT B
REESE JERRY B
REID RALPH R
RENSHAW EMERA W
RETTIG EDWIN C
REVELEY THOMAS L
REYNOLDS GRAY D
RICE RICHARD T
RICHARDS HORACE JR
RICHELSON PAUL N
RICHMOND ROBERT M
RICKERD JAMES W
RIECKEN HUGO W
RIEDEMAN HENRY W
RINGDAHL JOHN N
RINGE RUDY R
RISCH JAMES E
RISSE WALTER H
RITCHIE BRENT W
ROBEL ROBERT J
ROBERTS HADLEY B
ROBERTS RALPH B
ROBERTSON DALE F
ROBERTSON HAROLD F
ROBINETTE W LESLIE
ROBINS CHARLES M
ROBINSON LOREN E
ROBINSON WALTER L
ROBISON THOMAS A
ROCHE BEN F
RODGERS JAMES G
ROGERS GEORGE L
ROMANS DOYLE M
ROOT GEORGE A
ROPER LAREN A
ROSENKRANCE LESTER
ROSENTHAL JAMES J
ROSINE PHILIP E
ROSS CULVER D
ROWEN ROBERT A
ROWLAND HARVEY C
ROWLES JAMES L
RUBISCH KURT D
RUBRECHT G KELLER
RUMPS JOHN J
RUPERS BARBARA L
RUPERS THOMAS W
RUSHER ROBERT H
SACHECK WILLIAM A
SACHS DEAN M
SAJOR VALENTIN
SALING WALLACE M
SAMSON ROGER R
SANDMEYER JOHN D
SARGEANT HOWARD J
SAUSELEN HENRY G
SAVARIA EDWARD D
SAXMAN DONALD R JR
SCHAEFER RICHARD M
SCHELDT ROBERT S
SCHERMERHORN R B
SCHLATTERER EDWARD F
SCHMIDT ROBERT S
SCHMIDT WILLIAM T JR
SCHMITT DAVID W
SCHMITT ROBERT M
SCHMITT WILLIAM E
SCHNEIDER TERRY W
SCHOEFFLER FRANKLIN A
SCHOFIELD WILLIAM
SCHOLTEN GERALD C
SCHOLTES JOHN R
SCHRENK ROBERT L
SCHROEDER HERBERT A
SCHULDT ALDEN T
SCHULTZ EDWARD L
SCHULTZ HENRY W
SCHULZE VERNON R
SCHUMAKER JOHN R
SCHUSTER KENNETH B
SCHUTTE JACK
SCHWAB JOHN R
SCHWABEL WARREN M
SCRIBNER WILLIAM A
SEABERG DAVID R
SEALE ROBERT H
SELLE DEWEY D
SELLERS VICTOR O
SHARMA PARMESHURI D
SHARP ANDREW G
SHARPNACK DAVID A
SHAW HARLEY G
SHAW WILLIAM H
SHEDD ROBERT L
SHELLEY WILLIAM D
SHERO JACK W

ROUTE 1 BOX 173 MOSCOW IDAHO 83843
BOX 319 SUPERIOR MONT 59872
831 COLLEGE AVE ST MARIES IDAHO 83861
1959 DIAMOND ST SAN DIEGO CALIF 92109
BOX 292 LEWISTOWN MONT 59457
2716 NE 97TH SEATTLE WASH 98115
ROUTE 1 BOX 75 MOSCOW IDAHO 83843
SALMON IDAHO 83467
NE/1631 NEWAMARPURA RAWALPINDI W PAK
130 BIRCH RD KALISPELL MONT 59901
IDAHO DRUG COMPANY RIGBY IDAHO 83442
LIFE SCI PENN STATE UNIV PARK PENN 16802
HEBER RANGER DIST HEBER UTAH 84032
1710 RIVERSIDE DR S WILLIAMSPT PA 17701
1112 LINCOLN ST WATERLOO IOWA 50703
ROUTE 1 BOX 333 CORVALLIS ORE 97330
324 CHENAULT AVE HOQUIAM WASH 98550
BOX 5 TUTTLE IDA 83354
BOX 5 TUTTLE IDAHO 83354
1313 BIGHORN AVE SHERIDAN WYO 82801
637 S GRANT POCATELLO IDAHO 83201
BOX 274 YACHATS ORE 97498
BOX 131 HORSESHOE I IDAHO 83629
R 2 GRANITE FALL MINN 56241
COLVILLE NF COLVILLE WASH 99114
PO BOX 909 SANDPOINT IDA 83864
3738 OAKWOOD RIVERSIDE CALIF 92506
BOX 347 HYDE PARK UTAH 84318
115 W 24TH AVE SPOKANE WASH 99203
1022 S LYNN MOSCOW IDAHO 83843
1309 8TH AVE LEWISTON IDAHO 83501
1914 WAVERLY ST PHILADELPHPA 19146
CARIBOU NF POCATELLO IDAHO 83201
W 425 RIVERSIDE SPOKANE WASH 99201
S 358 COEUR DALENE SPOKANE WASH 99204
PO BOX 39 MONTPELIER IDAHO 83254
USFS LIBSON N D 58054
2114 ELLIOTT ST TOLEDO OHIO 43606
2800 COTTAGE WAY SACRAMENTO CALIF 95825
BLM BURLEY IDAHO 83318
9610 S 240TH KENT WASH 98031
BOX 61 AMERICAN FLS IDAHO 83211
COUNTY COURTHOUSE BOISE IDAHO 83702
SCS KLAMATH FALL ORE 97601
ROUTE 2 MERIDIAN IDAHO 83642
KANSAS ST UNIV MANHATTEN KAN 66502
745 BOND ST BEND ORE 97701
PO BOX 386 COUNCIL IDAHO 83612
1803 AVENUE F BILLINGS MONT 59102
BLM RIVERSIDE CALIF 92502
WILDLIFE FED BLDG 16 DENVER COLO 80225
40256 DAVIS ST FREMONT CALIF 94538
E 12721 12TH AVE SPOKANE WASH 99216
102 DIXIE LANE LONGVIEW WASH 98632
1701 MECA COURT MCLEAN VIRGINIA 22101
WSU RANGE MGMT PULLMAN WASH 99163
BOX 35 CASTLE ROCK WASH 98611
1223 CULBERHOUSE JONESBORO ARK 72401
PO BOX 343 W YELLOWSTNE MONT 59758
2981 LAUREL RD LONGVIEW WASH 98632
BOX 134 KREMMLING COLO 80459
2000 CURLEW DRIVE IDAHO FALLS IDAHO 83401
24 COUCHMAN AVE ROCHESTER 17N Y 14617
ROUTE 3 GALESBURG ILLINOIS 61401
1383 3RD OGDEN UTAH 84404
USFS FOR SUPERVISOR ELKO NEVADA 89801
3111 KEOKUK BUTTE MONTANA 59701
916 E 8TH ELLENSBURG WASH 98926
FAVERBACH BREWING MADISON WIS 53701
4321 SAUGUS AVE SHERMAN OAKS CAL 91403
315 DIXON AVE BAKERSFIELD CALIF 93304
RFD E BALDWIN ME 04024
RFD E BALDWIN ME 04024
111 OCEAN ST HYANNIS MASS 02601
6711 MINK PLACE ANCHORAGE ALASKA 99504
PO BOX 347 ELKO NEVADA 89801
101 KANLAON ST QUEZON CITY PHIL IS
397 EAST 3RD SOUTH PLEASANT GRV UTAH 84062
4703 KOOTENAI =39 BOISE IDAHO 83705
2608 LEWIS AVE BILLINGS MONT 59102
5242 SW NEBRAS ST PORTLAND ORE 97221
SOIL CONS SERVICE MULLICA HILLN J
PO BOX 433 SHOSHONE IDAHO 83252
POST OFFICE FAIRFIELD I IDAHO 83327
1331 RIPON LEWISTON IDAHO 83501
ROUTE 3 BUHL IDAHO 83316
AUSABLE CHSM NEW YORK 12911
PO BOX 1084 LEWISTOWN MONT 59457
250 JANNEY LANE MEDFORD OREGON 97501
C/O A TULBOUS PT 1 MARLOW OKLAHOMA 73055
4112 SO LEE SPOKANE WASH 99203
MESA RANGER DIST MESA ARIZ 85201
318 MARCY AVE W MONTESANO WASH 98563
1955 1/2 FRACKLETON SHERIDAN WYOMING 82801
ROUTE 3 BOX 126 MOSCOW IDAHO 83843
915 NEILSON ST ALBANY CALIF 94706
ROUTE 1 BOX 113 GRANGEVILLE IDA 83530
505 E FRANKLIN AVE BEND ORE 97701
U S FOREST SERVICE WELLINGTON NEVADA 89444
OREGON FOR RES CTR CORVALLIS ORE 97330
BOX 207 JACKSON WYO 83001
ROUTE =2 COLFAX WASH 99111
2819 NORMAN DR BOISE IDAHO 83704
BLM PO BOX 37 PRINEVILLE OREGON 97754
110 ZACKERMAN AVE FT BENNINGG 31905
1587 WOODLAND AVE PALO ALTO CALIF 94303
1145 NORTH 5TH COOS BAY OREGON 97420
201 N SUMMITT ST TONKAWA OKLAHOMA 74653
2709 ALLVIEW WY BELMONT CALIF 94002
6907 HUMMEL DRIVE BOISE IDAHO 83705
4522 N 71ST MILWAUKEE WISC 53218
804 E 7TH ST MOSCOW IDAHO 83843
ROUTE 2 SANDPOINT IDAHO 83864
440 AQUILA COURT OMAHA NEB 68102
179 CIVIL LINES PUNJAB INDIA
1640 PALISADES DR APPLETON WISC 54911
718 SOUTH SCOVILLE OAK PARK ILLINOIS 60304
RT 1 BOX 910B FLAGSTAFF ARIZ 86001
960 VAN BUREN OGDEN UTAH 84404
RD 2 MUMFORD RD HARPURSVILLE N Y 13787
BOX 355 EUREKA MONTANA 59917
105 HEADQUARTERS RD KELSO WASH 98626

SHERO RICHARD P	WN ST FOR SERV	KELSO	WASH	98626
SHERRETTS HAROLD D	RT 1	WAKARUSA	KAN	66546
SHIELDS MICHAEL D	PO BOX 115	MOAB	UTAH	84532
SHIVELY ROBERT L	823 PENN AVE	COEUR DALENE	IDAHO	
SHOEMAKER NEIL L	1503 2ND ST APT 1	WEBSTER CITY	IOWA	50595
SHRINER DAVID S	5204 BOULDER RD RT7	FREDERICK	MD	21701
SILVERBERG SAVEL B	NYS COLLEGE OF FOR	SYRACUSE 10	N Y	13210
SIM JACK R	239 NE OUTLOOK AVE	GRANTS PASS	OREGON	97526
SIMMONS CHARLES F	PO BOX 3737	PORTLAND	ORE	97208
SIMMONS CLAIRE A	926 EMMA AVENUE	COEUR DALENE	IDAHO	83814
SINDELAR BRIAN W		BALLENTINE	MONTANA	
SINGLEY JAMES A	3235 ALLISON ST	WHEAT RIDGE	COLO	80033
SIPCO ERIC T	27 N WESTVIEW AVE	FEASTERVILLE	PENN	19047
SKAR ROLF G	405 LOCH LAMOND DR	BAKERSFIELD	CALIF	93304
SKJEIE ELMER	345 MIDDLEFIELD RD	MENLO PARK	CALIF	94025
SKOGLAND TERJE J	P O BOX 372	HAUGESUND	NORWAY	
SKOVLIN JON	PO BOX F	LA GRANDE	ORE	97850
SLUSHER EDWARD C	4005 MOUNT AVE	MISSOULA	MONT	59801
SMITH CAPT HENRY R	3605 STANFORD CIR	DECATUR	GA	30034
SMITH CLIFFORD L	PROSPECT RANGER STA	PROSPECT	OREGON	97536
SMITH DWIGHT R	1301 STOVER	FORT COLLINS	COLO	80521
SMITH JERRY L	151 EAST BOISE AVE	BOISE	IDAHO	83706
SMITH LARALLE R	RTE 2 BOX 296A	COEUR DALENE	IDAHO	83814
SMITH LAWRENCE O	KANIKSU NF BOX 29	SANDPOINT	IDAHO	83864
SMITH LAWRENCE R	SUNSHINE STAR RT	KELLOGG	IDAHO	83837
SMITH MERLIN	1215 JASPER AVE	OLYMPIA	WASH	98501
SMITH ROBERT LESLIE	BOX 404	GARFIELD	WASH	99130
SMITH ROBERT M	810 MOTSIFF LANE	HELENA	MONT	59601
SMITH RUSSELL E	706 LINDEN AVE	LEWISTON	IDAHO	83501
SMITH STANLEY G	3816 FRANKLIN ST	OMAHA	NEBRASKA	68111
SMITHEY GARY G	SAWTOOTH NAT FOR	FAIRFIELD	IDAHO	83327
SNOW ELVA A	815 FOSTER AVE	COEUR DALENE	IDAHO	83814
SNYDER FREEMAN W	1209 CEDARHILL DR	EAST LANSING	MICH	48823
SODERBLOM JON E	621 LOGAN	BOISE	IDAHO	83702
SOETH JAMES R	3215 BONA STREET	OAKLAND	CALIF	94601
SOLBERG TERRY G	STEVENSVILLE RGR DT	STEVENSVILLE	MONT	59870
SOLT KENNETH E	1119 SPRINGER ROAD	OLYMPIA	WASH	98501
SONNICHSEN RICHARD C	GPO BOX BT	SAN JUAN P RICO		00936
SOWDER ARTHUR M	1811 BENTLEY RD	SANDY SPRING	MD	20860
SOWDER JAMES E	PO BOX 245	BERKELEY	CALIF	94701
SPACE JACKSON W	SANTA FE NAT'L FOR	GLORIETA	N M	87535
SPACE JAMES C	US FOREST SERVICE	MISSOULA	MONT	59801
SPACE RALPH S	RIVERSIDE TRACTS	OROFINO	IDAHO	83544
SPANOGLE BERNARD	BOX 593	PALISADES	IDAHO	83437
SPECHT JOHN R	BOX 21	OSBURN	IDAHO	83849
SPEEDY MAJOR ROBERT P	435 TULIP ST	FAIRFIELD	CALIF	94533
SPENCER MARSHALL E	2507 KORUALE LANE	BOWIE	MD	20715
SPENCER ROBERT W	BOX 502	OROFINO	IDAHO	83544
SPETH JOHN W	4460 DURER PKW	SACRAMENTO	CALIF	95823
SPINK LOUIS	511 12TH AVE	NAMPA	IDAHO	83651
SPINNEY CARLETON H	5 USHER ROAD	MEDFORD 55	MASS	02155
SPORES DAVID M	BOX 605	HAMILTON	MONT	59840
SPORES WILLIAM R	BOX 432	BONNERS FRY	IDAHO	83805
SPRINGER DONALD E	WALNUT ST	GENESEE	IDAHO	83832
STAAB THOMAS L	BOX 527	BAKER	OREGON	97814
STANCER WILLIAM H	478 CRAIG DR	FT BENNING	GA	31905
STANLEY LT COL WILFRED	15939 PIUMA AVE	CERRITOS	CALIF	90701
STANTON DON C	11 CHENEY ST	SPRINGVALE	ME	04083
STAUBER ARTHUR E	1239 WICKS LANE	BILLINGS	MONTANA	59101
STAUBER GERALD A	960 PATSY DRIVE	POCATELLO	IDAHO	83201
STAUBER RICHARD L	3074 N 550 EAST	NO OGDEN	UTAH	84403
STEARNS GORDON B	246 LACUESTA DRIVE	MENLO PARK	CALIF	94025
STEEL PAUL E	PO BOX 1306	ALBUQUERQUE	N MEXICO	87103
STEELE ROBERT W	P O BOX 552	MOSCOW	IDAHO	83843
STEFFENSEN LESLIE M	2515 N 31ST	SPRINGFIELD	ORE	97477
STEINHOFF RAPHAEL J	FOR SCI LAB BOX 469	MOSCOW	IDAHO	83843
STELLMON DOUGLAS M	PO BOX 1197	COEUR DALENE	IDAHO	83814
STEMPER FOREST E	BOX 193	MT HOME	IDAHO	83647
STEPHENSON GOLDEN	530 SOUTH STATE	CLEARFIELD	UTAH	84015
STERE DAVID H	127 EAST BAY DR	NORTH BEND	OREGON	97459
STEVENS COURTENAY E	US IMMIGRAT SERV	BLAINE	WASH	98230
STICKNEY PETER F	USFS FED BLDG	MISSOULA	MONTANA	59801
STICKNEY RONALD N	ASST DIST RANGER	KINGSTON	IDAHO	83839
STILLINGER JOHN R	3200 COLGATE	DALLAS	TEXAS	75225
STILWELL CLARENCE E	317 S SECOND AVE	SANDPOINT	IDAHO	83864
STOESSEL STEPHEN A	537 GRANT ST	BERRENDORF	IOWA	52722
STOLAAS HOWARD L	4109 IDAHO ST	VANCOUVER	WASH	98661
STONE RAYMOND W	3005 CARNEGIE DR	BOULDER	COLO	80302
STOWASSER CLARENCE E	ROUTE 1 BOX 17	COEUR DALENE	IDAHO	83814
STRATTON MERLE W	2203 SPRING ST	CHEHALIS	WASH	98532
STRATTON ROBERT D	527 11TH AVE E 9	OLYMPIA	WASH	90501
STROBEL VINCENT	723 S PHILLIPPI	BOISE	IDAHO	83705
STROEBELE JERALD A	C/O F KESWORM RT 2	HAZELTON	IDAHO	83335
STROSS RAYMOND	909 CLAY	ST CHARLES	MISSOURI	63301
STROUP STANLEY W	BLUE RIDGE R S	HAPPY JACK	ARIZ	86024
STURM THOMAS D	3421 CLARENCE AVE	BERWYN	ILL	60402
SULLIVAN EDWIN D	ROUTE 1 BOX 370	HAYDEN LAKE	IDAHO	83835
SULLIVAN JOHN D	4318 GRANADA ST	ALEXANDRIA	VA	22309
SUMMERSIDE GEORGE W	1403 MONTANA AVE	LIBBY	MONTANA	59923
SUNDQUIST CARL L	925 YORK AVE	RENO	NEV	89502
SUOMINEN ROY A	CONSOL WATER P & P	PHILLIPS	WIS	54555
SUTHERLAND CHARLES F	221 N 6TH ST	CORVALLIS	ORE	97330
SUTRICK JOHN S	703 E THOMPSON	SAPULPA	OKLAHOMA	74066
SUTTON VERNON C	BOX 43	OLA	IDAHO	83657
SWANSON CLIFFORD L	P O BOX 91	TROY	IDAHO	83871
SWANSON ROBERT E	PAYNE ROAD	IDAHO FALLS	IDAHO	83401
SWAYNE ALLEN P	430 PENN AVE	ETOWAH	TENN	37331
SWEEP DONALD H	BOX 428 BLM	COEUR DALENE	IDAHO	83814
SWENSON ROBERT E	168 BANNOCK ST	MALAD	IDAHO	83252
TALBOY DEAN W	738 HILLCREST WAY	REDWOOD CITY	CALIF	94062
TALLEY MICHEAL L	1136 PRIMROSE	TWIN FALLS	IDA	83301
TANAKA RICHARD M	BOX 673	SHOSHONE	IDAHO	83352
TANK ROBERT E	FIRE CONTROL BLM	IDAHO FALLS	IDAHO	83401
TANNER DALE L	2017 POWERS	LEWISTON	IDAHO	83501
TAUBMAN JAMES H	FOREST SERVICE	WALHALLA	N D	58282
TAYLOR ABB H	145 NE ASH ST	SHERIDAN	ORE	97378
TAYLOR BRYAN E	BOX 343	NEWPORT	WASH	99156
TAYLOR ERNEST H	3119 CAROLINA NE	ALBUQUERQUE	N M	87110
TAYLOR HARRY J JR	PO BOX 432	YREKA	CALIF	96097
TAYLOR JOHN L	1316 WILDER	HELENA	MONT	59601
TAYLOR LAURENT	511 E CLIFF DRIVE	EL PASO	TEXAS	79902
TAYLOR PETER W	2533 INGLEWOOD DR	BOISE	IDAHO	83705
TAYLOR ROBERT E	STAR ROUTE	GRANITE FALL	WASH	98252
TAYLOR WILLIAM D	MARINE CORPS BASE	CMP PENDLETN	CALIF	92055
TAYLOR WILLIAM R	BOX 738	BROOKINGS	OREGON	97415
TAYNTON ROGER	578 E 1700 N	OGDEN	UTAH	84404
TEILMANN HARRY A	305 SE 6TH	ENTERPRISE	ORE	97828
TEMPLE DONALD J	US FOREST SERVICE	HUNGRY HORSE	MONT	59919
TERRILL ROBERT B	MONTI-TA SAL N FOR	PRICE	UTAH	84501
THACKABERRY JOSEPH J	6713 ASHLAND DRIVE	BOISE	IDAHO	83705
THACKER DALE S	290 N MAIN	KALISPELL	MONT	59901
THALDORF LYNN H	BOX 114	BOISE	IDAHO	83701
THIEMENS JIM D				
THILENIUS JOHN F				
THOMAS GERALD W				
THOMAS HAROLD E				
THOMAS JAMES L				
THOMPSON ALLEN R				
THOMPSON ERNEST L				
THOMPSON JAMES M				
THOMPSON WILLIAM L				
THOMSON HAROLD K				
THORNBER MERRILL S				
THRAPP HILTON				
THRUPP ADRIAN C				
TIDD ROBERT L				
TIEDEMANN ROLAND K				
TILTON WILLIAM M				
TINSLEY SELDEN L				
TIPPETTS VAUGHN				
TIPPLE NICHOLAS E				
TISDALE ELDON D				
TKACH JOHN G				
TOMLINSON NORMAN E				
TONSETH HENRY R				
TOWN SHERMAN D				
TOWNS WILLIAM L				
TOWNSEND LAURENCE G				
TRAWEEK DAVID E				
TROJANOWSKI CAPT JAMES				
TROJANOWSKI JOHN W				
TSCHANZ DONALD B				
TURNER GEORGE T				
TURNIPSEED RUSSELL D				
TWITCHELL L T				
UD-DIN ZAFAR				
ULLEVAALSETER REIDAR O				
UNDERWOOD ALAN B				
UNDERWOOD JOHN F				
UNDERWOOD VERNON L				
UPSON U LAYTON				
VAIL DAVID B				
VAIL DELMAR D				
VAN LEAR DAVID H				
VANCE EDWARD P				
VANDENBURG JOHN S JR				
VANIER STEPHEN C				
VANSANT RUSSELL H				
VARS HARRY T				
VARSEVELD FRANK R				
VENISHNICK JOSEPH C				
VERDAL GUSTAV A				
VERNER ROY S				
VILKITIS JAMES R				
VINCENT DWAIN W				
VITOLINS AUGUSTS				
VOGT HARRY A				
VON BARGEN JOHN H				
VOSEN HAROLD C				
WALDRON HARVEY M				
WALES KRISTIAN L				
WALKER ALFRED				
WALKLEY ROBERT B				
WALL HAROLD G				
WALLACE HOWARD A				
WALLACE WILLIAM B				
WALTER JOHN S				
WAMBOLT CARL L				
WARD RAY L				
WARD WALTER M				
WEATHERHEAD DONALD J				
WEBB ORRIN F				
WEDDLE ARTHUR J JR				
WEGELEBEN HARRY				
WEINEL WARREN G				
WELKER LORIN J				
WELLNER CHARLES A				
WELLS WADE G II				
WELSH THOMAS L				
WEMHOFF LESLIE S				
WENZEL OTIS G				
WERNER LLOYD W				
WEST WAYNE W				
WESTHAVER BARRY L				
WETZEL BARTON O				
WEYERMANN GEORGE F				
WHEATLEY THOMAS J				
WHEATON RODGERS G				
WHITE HENRY A				
WHITNEY CLARIDON D				
WHITT CHARLES R				
WHITTIG JERRY F				
WIEGAND DAVID R				
WIESHUEGEL ERWIN G				
WILCOX JOHN T				
WILKER CARL W				
WILKINS DALE R				
WILKINSON LYLE A				
WILLIAMS EDGAR L				
WILLIAMS ROGER M				
WILLIAMS THOMAS R				
WILLIAMSON DARRELL L				
WILLIAMSON REX P				
WILSON CARL C				
WILSON DENNIS C				
WILSON DONALD D				
WILSON GEORGE R				
WILSON LOUIS R				
WILSON ROY W				
WILSON THOMAS I				
WINDLE JOHN C				
WINDLE LEAFORD C				
WING LARRY D				
WINWARD ALMA H				
WISDOM HAROLD W				
WITTERS RANDALL L				
WOLFE WINSTON C				
WOO JOHN Y				
WOOD DONALD K				
WOOD ROBERT E				
WOOD ROBERT E				
WOODRUFF SAMUEL A				
WOODS PAUL T				
WOOLWINE PHIL C				
WEYERHAEUSER CO	NORTH BEND	OREGON	97459
US FOR RGR EXPT STA	RAPID CITY	S D	57701
3805 27TH	LUBBOCK	TEXAS	79409
RT 1 WEST HIWAY 20	BOISE	IDAHO	83702
THORNE BAY ALASKA	KETCHIKAN	ALASKA	99901
2906 MADISON	BOISE	IDAHO	83703
3124 CAROLINA NE	ALBUQUERQUE	N M	87110
401 S WASHINGTON	CENTRALIA	WASH	98351
C/O ATLANTA STAGE	BOISE	IDAHO	83701
15 EAST 4TH AVENUE	EMPORIA	KANSAS	66801
RTE 1 BOX 121	PARKER	COLO	80134
ROUTE 2 BOX 725	INDEPENDENCE	MO	64056
4032 NE 57TH ST	SEATTLE	WASH	98105
BOX 126	SAN CARLOS	ARIZ	85550
134 DRAKE AVENUE	STATEN IS 14	N Y	10314
506 N GARFIELD	MOSCOW	IDAHO	83843
SCS	UPPER DARBY	PA	19084
US FOREST SERVICE	PARIS	IDA	83261
RD =1	GHENT	N Y	12075
712 SHAYNE DRIVE	BOISE	IDAHO	83705
8806 WILLIA BR LA	ANNANDALE	VA	22003
SILVER LAKE ROAD	NEWTOWN	PENN	18940
USFS	BEND	ORE	97701
PO BOX 411	VALE	ORE	97918
620 PEACHTREE 7BLD	GATLANTA	GA	30323
IDA DEPT OF PARKS	BOISE	IDAHO	83707
FU3231368 BOX 8407	GOODFELLOW	TEXAS	76901
106 WOOD ST	PORTAGE	WIS	53901
105 WOOD	PORTAGE	WISCONSIN	53901
BOX 217	SHERIDAN	ORE	97378
1008 MEADOWBROOK DR	FORT COLLINS	COLO	80521
1411 SWISHER ROAD	POCATELLO	IDAHO	83201
BIFC ROUTE 3	BOISE	IDAHO	83705
CONSERV OF FORESTS	BAHAWALPUR	W PAKISTN	
NORDMARKA	OSLO	NORWAY	
DANIEL BOONE NF	WINCHESTER	KT	40931
301 BOULDER ST	NEVADA CITY	CALIF	95959
1707 SUNSET DRIVE	PACIFIC GROV	CALIF	93950
632 BASSWOOD	RICHLAND	WASH	99352
5224 STATE ST	BOISE	IDAHO	83703
BOX 135	CEDAR CITY	UTAH	84720
525 COMMERCIAL ST	CLIFTON FORGE	VIRGINIA	24422
SCS	MOSES LAKE	WASH	98837
BOX 292	BONNERS FRY	IDAHO	83805
13660 SW PAC HY =12	TIGARD	OREGON	97223
SHERWIN WILLIAMS CO	CHICAGO	ILL	60601
ROUTE 1	WHITEFISH	MONT	59937
973 GALE DRIVE	LADNER	B C	
402 S BOYER	SANDPOINT	IDAHO	83864
USFS	COEUR DALENE	IDAHO	83814
USFS	REXBURG	IDAHO	83440
FORESTRY U OF MASS	AMHERST	MASS	01002
3417 CRESCENT RIM	BOISE	IDAHO	83704
RT 1	SALMON	IDAHO	83467
SCS	MOSCOW	IDAHO	83843
CHIPPEWA NF	CASS LAKE	MINN	56633
STAR ROUTE	CLARK FORK	IDAHO	83511
PO BOX 468	BEND	ORE	97701
404 W 24TH	SPOKANE	WASH	99203
USFS	TWIN FALLS	IDAHO	83301
510 FIFTH STREET	NELSON	B C	
USFS	CEDAR CITY	UTAH	84720
1426 E BOWMAN ST	SOUTH BEND	INDIANA	46613
7009 INDIANA	VANCOUVER	WASH	98664
BOX 764	BONNERS FRY	IDAHO	83805
COOP EXT SERV MSU	BOZEMAN	MONTANA	59715
BOX 1512	ALTURAS	CALIF	96101
6541 28TH NE	SEATTLE	WASH	98155
ROUTE 1 BOX 19	TROUT LAKE	WASH	98650
	GRANGEVILLE	IDAHO	83530
907 N OAK	UKIAH	CALIF	95482
5608 RICKEY RD	YAKIMA	WA	98902
BOX 647	ROOSEVELT	ARIZ	85545
DIST MGR BLM	PRICE	UTAH	84501
1370 LARK CIR	OGDEN	UTAH	84403
117 PEASLEY ST	BOISE	IDAHO	83705
BOX 647	MCCALL	IDAHO	83638
MRS RONALD WEMHOFF	COTTONWOOD	IDAHO	83522
12505 E WELLESLEY 6S	SPOKANE	WA	99216
ROUTE 3	JEROME	IDAHO	83338
630 SANSOME ST	SAN FRAN	CALIF	94111
815 EAST 16TH ST	N VANCOUVER	B C	
FLATHEAD AGENCY	DIXON	MONTANA	59831
13320 NW NORTHRUP	PORTLAND	ORE	97229
INTERNATL MGR PAPER	LONGVIEW	WA	98632
6609 N LAKE DR	MILWAUKEE	WISC	53217
60 SANTA RITA DRIVE	WALNUT CREEK	CALIF	94596
655 NORTH 8TH ST	PAYETTE	IDAHO	83661
2313 GARLAND DR	MISSOULA	MONT	59801
RT 12 BOX 729	OLYMPIA	WASH	98501
4200 GR AVE APT B10	DESMOINES	IA	50312
BOX 196	NORRIS	TENN	37828
64 E MINOR	WINNEMUCCA	NEV	89445
165 E 3RD S	MANTI	UTAH	84642
707 E PINE RT 3	MERIDIAN	IDAHO	83642
BOX 253	TROY	IDAHO	83871
814 MAYBELLE	MOSCOW	IDAHO	83843
2824 GRANDEE ST	BOISE	IDAHO	83700
550 W FORT ST RM435	BOISE	IDAHO	83702
RT 1 BOX 9024	BEAUMONT	TEXAS	77706
4142 ROUND TOP DR	HONOLULU	HAWAII	96822
779 APACHE TRAIL	RIVERSIDE	CALIF	92507
84 MODEL AVE	HOPEWELL	N J	08525
US FOREST SERVICE	OGDEN	UTAH	84400
COEUR DALENE N F	COEUR DALENE	IDAHO	83814
ROUTE 1 RIVERVIEW	OROFINO	IDAHO	83544
HOFF LUMBER CO	HORSESHO BND	IDAHO	83629
RT 1 BOX 538	SANDPOINT	IDAHO	83864
RT 1	MELBA	IDAHO	83641
1607 EDITH DR	BELEN	N M	87002
COL OF FOR U IOWA	IOWA CITY	IDAHO	52240
	CLIFTON	IDAHO	83228
172 TAJUIL URB MILARIO	PIEDROS	P RICO	
2826 EAST WAY	REDDING	CALIF	96001
BOX 403	HUNGRY HORSE	MONTANA	59919
RFD 2 BOX 5	PULLMAN	WASH	99163
MED BOW NATL FOR	ENCAMPMENT	WYO	82325
12972 74TH PLACE NE	KIRKLAND	WASH	
COL OF FOR U OF W	SEATTLE	WASH	98100
587 FOX LANE	WORTHINGTON	OHIO	43085
92646 PALAICAI ST	EWA BEACH	HAWAII	96706
20 BUCHANAN DR	SAUSALITO	CALIF	94965

WREN CHARLES C	3687 RICHBRIAR CIR	NASHVILLE	TENN	37211	YOUNG JOHN L	EDW HINES LUMBER CO	HINES	OREGON	97738
WRIGHT JONATHAN W	2034 YUMA TRAIL	OKEMOS	MICHIGAN	48864	YOUNG LARRY	BLM	BOISE	IDAHO	83702
WYKERT PAUL V	PO BOX 1248	ESTES PARK	COLO	80157	YOUNGBLOOD GLEN B	2508 REDWAY ROAD	BOISE	IDAHO	83704
WYLIE JAMES H	2411 GOVERNMENT WAY	COEUR DALENE	IDAHO	83814	YOUREE BARNARD G	415 S 7TH	POCATELLO	IDAHO	83201
WYLLIE JOSEPH A	1403 FRANKLIN	BOISE	IDAHO	83702	ZAPPETTINI GEORGE	390 ARROWHEAD DR	CARSON CITY	NEV	89701
YAKOVAC CARL S	BOX 871	SALMON	IDAHO	83467	ZIELINSKI EDWARD C	2505 VAN VRANKEN	SCHENECTADY	N Y	12308
YATES DONALD H	4827 FOREST AVE	MERCER ISLE	WA	98040	ZIMINSKI HENRY V	324-25TH ST	OGDEN	UTAH	84401
YEARY GLENN A	BOX 166	TWIN FALLS	IDAHO	83301	ZIMMERMANN JACK F	3520 4TH ST SO	WISC RAPIDS	WISC	54494
YINGLING GLENN H	LINCOLN RANGER STA	LINCOLN	MONT	59639	ZOBELL REX	2613 CHESTNUT DR	CHEYENNE	WYO	82001
YINGST DONOVAN	9110 SW PINEBROOK	TIGARD	ORE	97223	ZOGHET MOUINE F	WATERSHED DEPT-CSU	FT COLLINS	COLO	80521
YOGERST NORMAN W	1412 ALMOND ST	ST PAUL	MINN	55108	ZUBERBUHLER RUDOLPH U	324-25TH ST	OGDEN	UTAH	84401
YOST NATHAN L	ROUTE 1	BOISE	IDAHO	83702	ZWIRTZ ROBERT J	9345 CEDAR	BELLFLOWER	CAL	90706

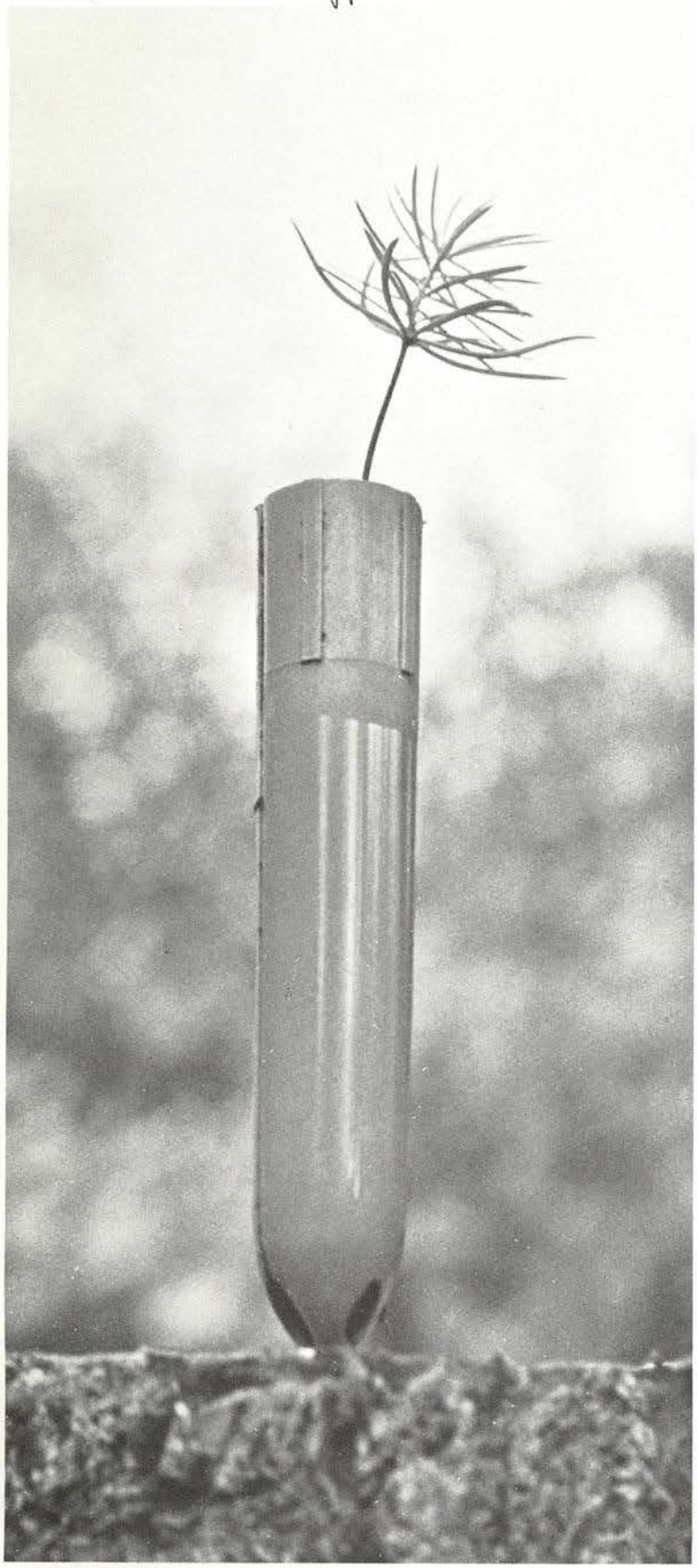
Address Unknown

AKINS BURTON W
ANDRICK JOHN D
ANELL ARTHUR B
ASHWORTH ROLAND R
BAILEY DALENE G
BALDWIN KENNETH C
BALDWIN ROBERT R
BARCLAY WILLIAM A
BEEMAN ROBERT D
BENDER PHILIP H
BENTON VINCENT L
BEST RICHARD K
BLACK JOHN R
BOLLES WARREN H
BOSS ALLAN S
BOWER JOHN R
BOYD BUFFORD C
BRAZELL ALBERT R
BRIGHT WILBERT A
BRISLAIN DONAL W
BROWER CLAUDE G
BROWN HAROLD G
BRUCKNER RICHARD A
BRUINS FRANKLIN B
BUCKINGHAM ARTHUR
BURCHARD WILLIAM JR
BURGETT LAURENCE M
CAMETTI THOMAS B
CAMPBELL RICHARD L
CARLSON STUART F
CASE ROBERT J
CASWELL EDWIN B
CHADWICK HOWARD
CHAPIN JAMES D
CHARKE WILLIAM T
COFFEY BOYCE B
COLLARD ERNEST B
CONARD JAY G
COOMBES ALLEN D
CRABB WARREN F
CROSS KENNETH J
DELEAU DARYL J
DEROSE FREDERICK P
DEWS DAN L
DICKERSON FREDERICK
DIDRIKSEN RALPH G
DIERKEN RICHARD H
DOHERTY ROBERT A
DUBBELS LOWELL G
ELFERING LAWRENCE C
ENGLISH ROBERT B
EWING WILLIAM R
FARGO EDWIN
FARRELL JAMES W
FEENEY RICHARD L
FINCH SHERMAN J
FINLAY GEOFFREY H
FISHBURN EARL
FITCH JAMES H
FITTS LORNE A
FLEMMING WILLIAM
FOLKER ROBERT V
FORE ORLANDO
FORGEY LYLE
FOUCAR KENNETH A
FREECE HERBERT J
FREY ROBERT E
FRITZ JOHN L
FRIZZIE BERNARD
FROERER ARTHUR I
GARLAND CRAIG W
GEORGE FERDINAND
GERKE HENRY J
GIBSON NELSON C
GODDARD WILFRED D
GOENNE FREDERICK W
GRANADA VICTOR M
GREEN EVERETT C
GREER MORRIS C
GREGORY CHARLES A
GRIFFITH RUSSELL F
GROSCH WILLIAM C
GUSTAD ORVIS C
HALL FLOYD H
HARRIS JOHN G
HAUSSMANN JOSEPH G
HEANEY SAMUEL J
HEFFEL RICHARD F
HEINER HOWARD R
HENDERSON RONALD L
HODGINS JOHN R
HOFFMAN HENRY C
HOPPIN WILLIAM W
JACKSON TOM
JACOBSON IRA
JENSEN RALPH
JOHNSON ALFRED C
JOHNSON DONALD G
JOHNSON ROBERT C
JOHNSON ROBERT HOLM
KARSTAD OWEN F
KEENE EDWARD L
KESSLER JOHN A
KEUCHMANN JAMES H
KILER ALVARD R
KINNAMAN DALE H
KLEPINGER FRANKLIN
KULM DAVID L
LEHTO VILHO A
LIGHT ELLIOT N
LINDSAY DAVID D
LOWNIK EDWARD C
LUND JENS M
MAKI RICHARD L
MALANY HERBERT S
MARSH ALFRED H
MARSHALL FREDERICK W
MARTIN GERALD H
MARTIN JAMES A
MASTIN RICHARD J
MATTHEWS PAUL C
MCGEE JAMES B
MCGILL THOMAS F
MCGINNIS FRANK T
MCKEE BILL E
MCNAIR JOHN J
MEARS JOHN S
MELICK HARVEY I
MENGES PHILIP E
MENNELL RAYMOND
MERRILL EDWARD H
MICHELSON CHRISTIAN E
MIDDENDORF JAMES F
MILLER RAYMOND L
MILLER WARREN G
MONTGOMERY ALLAN C
MOOMAW JAMES C
MOORE JON E
MOSS VIRGIL D
NAGLE WILLIAM
NEEL ROBERT W
NELSON NORMAN T
NELSON TERRY L
NELSON WILLIAM E
NISBET ROBERT L
NORDBLOM GEORGE F
NOVAK CLYLE A
OBERMEYER JACK W
OLIVER JOHN P
OLNEY WARREN B
OLSON SCOTT W
PAYNE CLOYD T
PAYNE JOHN C
PEAIRS ROY S
PEDERSON GARY L
PEKOVICH ANDREW W
PERKINS KILBY V
PETERMANN NELSE W
PHELPS EUGENE V
PHILLIPS JAMES E
PIPER FRANK C
PLUNGUIAN MARK
PORTER ROBERT M
POTTER HOWARD L
PRESTON PETER C
PRICE WILLIAM L
QUADRI EUGENE B
RIGGS CHARLES E
RINARD JOHN E
RITCHEY NORMAN C
ROBERTS EARL C
ROBERTSON GARNET A
ROCKWOOD JERRY R
ROGERS HAL L
ROWE JOHN A
RUCKWEED FRED J
RUNBERG DONALD E
SALINGER HERBERT E
SCHALLER MAURICE R
SCHRECK WILLIAM R
SCHROEDER THOMAS W
SCOTT DAVID W
SEDOFF ARTHUR
SETTLES RAYMOND L
SMART ROBERT A JR
SMITH ALMOND W
SMITH THOMAS W
SONNICHSEN ROBERT W
STAHL MALCOLM K
STAIRS WILLIAM D
STEVENS ARTHUR W
STORDAHL JAMES H
STRAWN CHARLES C
STYFFE HOBART H
TAGAWA TOM K
TAYLOR CYPRIAN D
TAYLOR WILLIAM P
TOFFLING JAMES J
TOOLE ARLIE W
TULLEY HARLAN N
VAN CAMP RICHARD P
VAN KLEECK ROBERT
VANDER POEL DENTON R
VOLLAND LEONARD A
WAHL JOSEPH D
WALKER GUY S
WALKER KEITH J
WATSON HAL A
WEBB JAMES L
WENTWORTH IRVIN
WHEELER JOE B
WILLIAMS GEORGE J
WILLIAMS GUY V
WILLIAMS ROBERT E
WILLIAMS TERRY L
WILLOWS CLAUDE E
WILSON DAVID G
WOOD CHARLES
WOOG ALAN H
WOOLEY SAMUEL B
WRAY SYDNEY E
WRIGHT LOREN H
YEARSLEY MAURICE C
YODER VINCENT S
ZORB GORDON

Deceased

AHLSKOG RALPH H
ALLEGRETTI JOSEPH
AUST PAUL W
BAILEY WILLIAM E
BAKER LOREN K
BARNETT JAMES W
BAUMERT BRENT J
BEDWELL JESSE L
BODER JACK D
BOOKER EDWARD C
BOY GLENN L
BRANDT JOHN C
BREON EUGENE E
BROCK JOHN E
CALL ELWOOD C
CALLENDER WILLIAM
CARLMAN ROBERT A
CARLSON OSCAR F
CLARK ELMER D
CLARKE STANLEY C
CRAWFORD CHARLES R
CURTIS FLOYD C
DANIELS ALBERT S
DAY NEIL J
DECKER ARLIE D
DOYLE IVAN
DRISSEN JOHN P
EASTMAN VIRGIL H
EPPERSON PAUL L
ERICKSON EDWARD JR
EVANS JEROME
EVERSON AXEL C
FAVRE CLARENCE E
FENN LLOYD A
FISHER GEORGE M
FITZGERALD WILLIAM K
FRITCHMAN HOLT
GALUSHA CHARLES
GERRARD PAUL H
GILL TYLER S
GIRARD JAMES W
GIRARD JAMES W
GODDEN FLOYD W
GRAFMILLER JAY T
GUSTAFSON CARL A
HALLETT NOEL L
HEPHER WILLIAM S
HERMAN CHARLES H
HOPKINS JESSE K
HUNTINGTON COLLIS H
KELLY JAMES J
KNOBLOCK JACK R
KOWALSKY STEPHEN I
KRUEGER KENNETH W
LANGER CHARLEY J
LANSDON WILLIAM H
LEONARD RODNEY B
LILLICO KEITH R
LUNDSTRUM F J
MALMSTEN HARRY E
MCKEEVER DONALD G
MITCHELL WILLIAM W
MOODY VIRGIL C
MUNSON OSCAR
NETTLETON HARRY I
NITZ GEORGE C
OLSEN CLARENCE C
PARSONS RUSSELL M
PIERSON ROYALE K
PIKE GALEN W
POLZ ERNEST A
PRAFKE VERLON E
RANDALL WARREN R
READ WILLIAM W
RICHARDSON KENNETH F
RITZHEIMER EARL
ROWE PERCY B
RUTLEDGE R H
RYAN CECIL C
SAASTAD HAROLD L
SCHUMAKER OREN F
SHANK PAUL J
SIEWERT GEORGE W
SLIPP ALBERT W
SNYDER ERNEST P
SPENCE LITER E
SPENCER BEN O
STANTON EDGAR W
STAPLES HOWARD W
STOUFFER DAVID J
TUMELSON FLOYD O
WADSWORTH H A
WALRATH FAIRLY
WHITE HAROLD Z
WIGGINS EDWARD
WILSON ALLAN S
WILSON DONALD W
WOODWARD DORAN E
YOUNGS HOMER

Howard Hoffman



Helping Mother Nature Meet Man's Needs

Through their scientific management of more than four million acres of timberlands, Georgia-Pacific foresters are helping "Mother Nature" provide the wood and wood fiber that are needed in ever-increasing quantities to meet the expanding needs of people.

Constant research is helping to unlock more and more of "Mother Nature's" secrets. One tangible result is the marked reduction in the time it takes to grow a crop of timber. Take Douglas fir, for instance. It wasn't too long ago that it required more—much more—than a normal lifetime for one crop to grow. Now, due to a combination of faster growth and better utilization, two crops are possible within one lifetime.

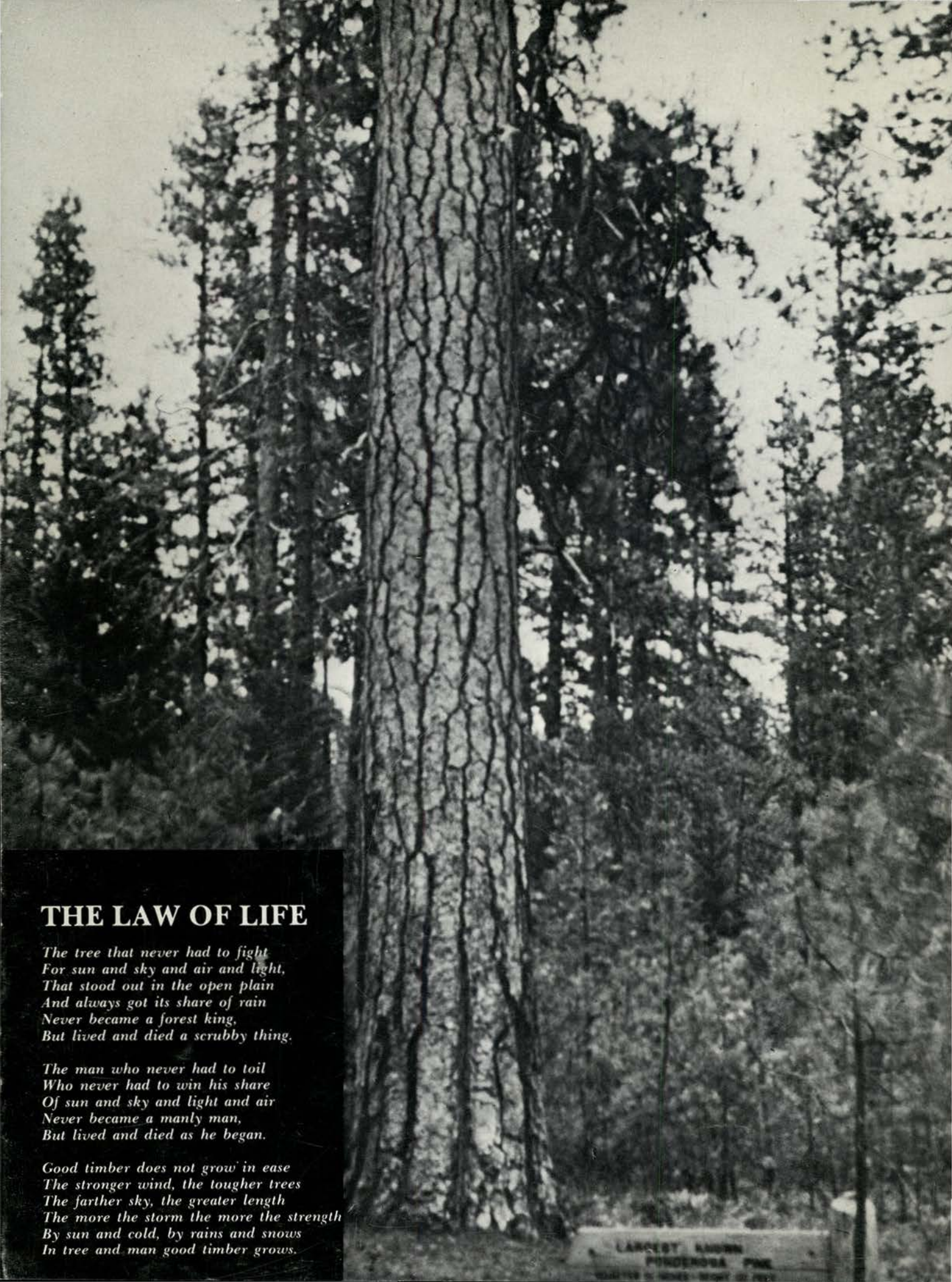
"Seed orchards," started more than a decade ago, are "paying off" for G-P with superior seeds that give promise of faster-growing and more disease-resistant trees. Currently, our planting and seeding techniques are being given serious study. One new process is the plastic container or "bullet" developed in Canada. We're trying to improve on it. Meanwhile, we're using this procedure in several areas with excellent results.

Good forestry and good foresters are important to G-P, now and as far as we can see into the future.

GP

GEORGIA-PACIFIC

GROWING FORESTS FOREVER



THE LAW OF LIFE

The tree that never had to fight
For sun and sky and air and light,
That stood out in the open plain
And always got its share of rain
Never became a forest king,
But lived and died a scrubby thing.

The man who never had to toil
Who never had to win his share
Of sun and sky and light and air
Never became a manly man,
But lived and died as he began.

Good timber does not grow in ease
The stronger wind, the tougher trees
The farther sky, the greater length
The more the storm the more the strength
By sun and cold, by rains and snows
In tree and man good timber grows.