# Heartwood

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The School of Forestry is a vital and active place. With about 1000 students for the 1994-95 academic year, both they and the faculty are really busy. In addition, the school’s research program has grown rapidly over the past few years providing new ideas for a quickly changing resource management picture. These ideas get brought into classrooms, labs and the field so that Montana natural resource students and managers are on the leading edge of what is being learned and practiced.

During the year the students have been very helpful to the school, working on many projects and putting forth a good name for the school in the many academic, social, and community activities they have undertaken. The Foresters’ Ball and Bandy Day come to mind as particularly positive events, but there are many others. With interests in wildlife, forestry, recreation, range, wilderness and resource conservation, as well as community service, the students have exploited a lot of outlets for their creativity and energy.

As the new Dean of the school, I am particularly pleased by the cooperative and collaborative spirit of the students, both graduate and undergraduate. In my short time as Dean, I have learned a lot with them and have appreciated their interest and ability to inform me and to articulate ways that the school might progress. One real joy of being the Dean is having the opportunities to interact with students and to learn of their desires and ideas.

During the next year the school will undergo more change in its faculty, not unmatched in proportion to the change in students. Last year we graduated a significant cadre of faculty and we have spent much of 1994-1995 hiring new faculty. Tom DeLuca, the new soils professor joined us in August and I arrived in September. By the next academic year we will have new faculty in wildlife biology, recreation, remote sensing, forest operations, the Institute for Tourism and Recreation Research and the Bolle Center for People and Forests—six more new faces and sets of ideas.

In looking toward the next century, I see the school’s opportunities as nearly limitless. Integration, collaboration, and innovation speak to the future and we are learning how to model them as a community of learners and scholars and for others in the broader world community. We are at the forefront of ecosystem management education and research and the students and faculty of the School of Forestry will use their skills, knowledge, and learning ability in shaping resource management in the 21st Century.

Perry J. Brown
Dean
FACULTY:
ADAMS, DARIUS
ALABACK, PAUL
BEDUNAH, DONALD J.
BROWN, PERRY
BURKE, EDWIN J.
DELUCA, THOMAS
FIESSLER, CARL
FREIMUND, WAYNE
HANSEN, PAUL
HUNT, RAYMOND E.
JACKSON, DAVID H.
MARCUM, LES C.
MCCOOL, STEPHEN F.
MCQUILLAN, ALAN G.
MENNING, NANCY
MILNER, KELSEY
MONTGOMERY, CLAIRE
NEMANI, RAMAKRISHNA
O'HARA, KEVIN L.
PFLISTER, ROBERT D.
PLETTSCHER, DANIEL H.
POTTS, DONALD F.
REAM, ROBERT R.
RUNNING, STEPHEN W.
SALWASSER, HAL
SIEBERT, STEPHEN F.
WAKIMOTO, RONALD H.
WILLARD, EARL E.
ZUURING, HANS R.

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CHRISTENSEN, NEAL
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DURGIN CAROLYN
EHRHART, ROBERT
GLASSY, JOE
GROSFIY, JOE
JENSEN, ERIC
LATHAM, PENNY
MENNING, NANCY
PERCE, LARS L.
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ROBERTSON, STEVE
SCRUGGS, VADAN
SWEET, MICHAEL
THOMPSON, WILLIAM
WALL, KEN
WINTERS, CAROL
WOOD, ROHN

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CRUE, CATE
DORSMAN, HAL
HODGSON, KIM
HOFMAN, FRANCES
MATHIS, JAN
MORAN, SHARON
PLUTE, LAURA
SHUCK, NANCY
RICHARDS, JAMES

RESOURCE PERSONELL:
EVERS, IRENE
GOETZ, HANK
MAUS, FRANK
NISLEY, BRUCE
PEEBLES, ROBERT
SCHAUB, KATHY
YETTER, BOB

PROF. FOREST ECONOMICS
ASST. PROF. FOREST ECOLOGY
PROF. RANGE MGMT
DEAN/PROF.
PROF. WOOD PROD. & UTIL.
ASST. PROF. FOREST SOILS
ASST RESEARCH PROF.
ASST. PROF. RECREATION MGMT
ASSOC. RES. PROF. RIPARIAN-WETLAND ECOLOGY
ASST. RESEARCH PROF.
PROF. FOREST POLICY
PROF. WILDLIFE BIOLOGY
PROF. WILDLAND RECREATION MGMT
PROF. FOREST MGMT/DIR. WILDERNESS INST.
RESEARCH INSTRUCTOR/DIRECTOR ITRR
ASSOC. PROF. MENSURATION GROWTH & YIELD
ASST. PROF. FOREST ECONOMICS
ASST. RESEARCH PROF. REMOTE SENSING
ASS. PROF. SILVICULTURE
RESEARCH PROF. ASSOC. DIR. MFCES
DIR. PROF. WILDLIFE BIOLOGY
ASSOC. DEAN/PROF. WATERSHED MGMT & FIRST MGT
PROF. REC. WILDERNESS (WOLF)
PROF. FOREST ECOPHYSIOLOGY
PROF. BOONE & CROCKETT
ASST. PROF. TROPICAL FORESTRY
PROF. FOREST FIRE SCIENCE
PROF. RANGE MGMT
PROF. BIOMETRICS (GIS LAB)

ADMINISTRATIVE SUPPORT
ACCOUNTING TECHNICIAN
MRA OFFICE MANAGER
ADMINISTRATIVE SUPPORT
INFORMATION SYSTEMS SPECIALIST
ADMINISTRATIVE ASSIST.
ACCOUNTING CLERK
SECRETARY
SECRETARY, WILDLIFE BIOLOGY
ACCOUNTING TECHNICIAN
SECRETARY
ADMINISTRATIVE AIDE
FORESTRY LIBRARIAN
DIRECTOR, FIELD STATIONS
MANAGER, LUBRECHT FOREST
MANAGER, BANDY RANCH
MANAGER, TMR RANCH
FOR. DVLP. OFFICER, UM FOUNDATION
WILDERNESS INSTITUTE
FACULTY
Back Row Darius Adams, Paul Hansen, Don Potts, Wayne Freimund
Hal Salwasser, Les Marcum, Bob Pifster, Dave Jackson, Steve
Running, Dean Perry Brown, 2nd Row Claire Montgomery,
Nancy Menning, Alan McQuillan, Tom DeLuca, Ramakrishna
Nemani, Carl Fiedler, Earl Willard, Paul Alaback
Front Row Don Bedunah, Dan Pletscher, Joe Glassy, Hans
Zuuring, Kelsey Milner, Kevin O'Hara

STAFF
Jim Richards, Laura Plute, Diana Cole, Kathy Benedetti
Janice Mathis, Margaret Bauchmeier, Sharon Maron

Barbara Anderson

Cate Crue
The 1994-95 edition of the Forestry Kaimin is dedicated to Professor Roland L. (Ron) Barger. Ron was born in Brazitos, New Mexico in 1931, and grew up on a ranch near Reserve. He graduated as valedictorian of his high school class in 1948. Ron’s work in forestry started after high school with seasonal assignments as a lookout and firefighter on the Apache National Forest. He then enlisted in the Air Force, and served four years as a navigator with the Strategic Air Command. After leaving the Air Force, Ron earned a B.S. in forest management (1958) and an M.S. in forest economics (1960) from Colorado State. He continued his education at Harvard on a Bullard Fellowship, receiving a Master’s in public administration.

In his career with the Forest Service, Ron worked as an assistant ranger on the Gore Ranger District on the Routt National Forest, as a research forester with the Rocky Mountain Forest and Range Experiment Station in Ft. Collins and Flagstaff, as a researcher in wood utilization at the Forest Products Lab in Madison, Wisconsin, and finally, as program manager at the Forestry Sciences Laboratory in Missoula. In 1976, he received the USDA’s Superior Service Award. He retired from the Forest Service in January, 1987.

Ron began his second career as a visiting professor at the School of Forestry during fall quarter, 1986. He taught timber harvesting, and was the primary developer of the senior capstone course on forest and rangeland planning. He also served as advisor for activities on the “student section” (Section 13) at the Lubrecht Experimental Forest, and coordinated operations of the student employment office (SEPO). Ron’s quiet friendly way, extensive knowledge and experience, and readiness to help made him a student favorite. Not surprisingly, he was twice honored by students as Outstanding Professor of the Year.

Ron Barger’s dedication to students, the School, and the profession of forestry were recognized by everyone. Therefore, it is with great respect and pleasant memories that we dedicate the 1994-94 Forestry Kaimin to Professor Ron Barger.
School of Forestry

Clubs
and
Organizations
The FSA provided a very eventful year for most foresters and our many friends. In preparation for the Fall Smoker, we started up the mentor program, hoping to build some enthusiasm and keep new people active in the club. Well, that we did! Once you teach them the two-step or a simple jitterbug move, watch out, because they’ll never let you stop!

The Fall Smoker took some extra planning since we had to deal with all of the fire regulations but with the majority “ayes” beating the “nays”, the old club members had the weekend all secured. We loaded up all of the new folks and a few other crispy critters and headed for Lubrecht. I could tell, by the looks in their eyes, that they were all ready to become GQ foresters. These folks learned how to cruise timber, cut trees (through Hosicks 072-abc course) and saw a logging operation in progress all before the day was done. After porking out and putting down some ice cream, we led them to the forest of lights. We all met up with Barnacle Bill and began singing the Foresters’ Cheer, over and over. God forbid if they ever forget it! Our next stop would be the Bandy Ranch in a couple of weeks.

Bandy Day events were all set with a big bunch of farmer Joe’s and Betties on their way. I’m sure the drive up for Barb Hollman, Dean of Students, was very interesting since she decided to fall asleep and dribble on her shoulder the whole time. The day’s tone did improve though when Ian gave Barb a lesson on chainsaw operation. By the end of the day she was on her way to becoming a chainsaw master. All this while, students were busy painting garage doors and building jack-leg fence. As the day came to an end our lovely “tits-for-trees” ladies decided to drag a few of the gentlemen into the pond and were successful in doing so.

Hibernation began to slowly set in with the coming of winter, but low-n-behind! Marc Vessar jumped out of the bushes (what he was doing in there, no one knows) and gave everyone “wet willies” to remind them that Ball activities were getting underway. The FSA and its many associates signed up for the events scheduled to make the 78th Annual Foresters’ Ball a great success. If you want to hear more about the Ball, just read Marc’s article. And NO, you don’t even need to be hooked on phonics to read it! Marc was very explicit about the whole ordeal.

Down the road, we scheduled Winter Olympics during Presidents Day weekend. Hoping for more snow, and yet realizing that we wouldn’t get any, we continued on with the events. Our lovely Calvin Leithead, 1995-96 FSA pres., Canouk and Elbow Room master, will take you through his article explaining the whole weekend. Upcoming events will include Bob Steele Day and Lubrecht Day, the Forestry School awards banquet and the Spring Dance. I could tell you all kinds of stories about these events but they haven’t occurred yet.

Bringing the year to an end for me is hard, but I look back at all of the fun times, the people I met and how much they really mean to me. Thanks a lot for being supportive, yet objective, because it helped me out. I would also like to thank my club officers: Fitz, Katie, and Lizzy B., for they are the ones who provided the internal support. We’ve all come a long way baby!

No kiddin’, it’s the truth,

Shawn Burd
FSA President and SAF Chair
Well it happened again, another year has quickly passed us by here at The University of Montana Wildlife Society. Our members and officers have accomplished much. In March of last year, our student chapter sent a delegation of 14 students to the Western Students Wildlife Conclave, which was hosted by Texas Tech University in Lubbock, Texas. Our school was one of 11 attending the conclave. Our team represented the University superbly by capturing the first prize trophy in the annual Quiz Bowl Competition. We were able to win despite a handicap inflicted by festivities of the previous night. All that attended were able to meet plenty of folks while having a great time. We are making plans to pull a repeat performance this year in Laramie, WY.

In late March, The Wildlife Society participated in the U.S. Fish and Wildlife Service's National Bison Range annual big game count. Students helped inventory all the big game animals on the Bison Range holdings. In all, approximately fifty people attended.

Towards the end of the semester, 10 students spent a weekend at the “Bandy Ranch”. There we had the opportunity to do a duck pair count on all of the ranch's many pothole lakes. It was a great chance to freshen up on our duck keying, canoeing, barbecuing, and “ice cream” consumption abilities.

Just after our duck count we held elections for new officers. Our officers first duty was to organize the annual “Beast Feast”. We invited all of our faculty as well as Forestry School students to attend. Disgustingly uncoordinated games of basketball and softball were played, while we BBQ’ed everyone's leftover wild game meat. Our menu included elk, deer, moose, bighorn sheep, turkey, duck, goose, Dutch oven beans, bald eagle (no one claimed the eagle!), steelhead, and of course, the traditional Oly flavored ice cream. This was a great time for students and professors to get to know each other (i.e. fight) in a casual environment.

Soon after school resumed in September, we co-hosted the annual “Fall Smoker” with the Forestry Student’s Association. More than 20 new wildlife students attended the weekend where they were introduced to The Wildlife Society and the Forestry Student’s Association. It was a definite success, despite the lack of smoke. Everyone went home happy, albeit a little groggy-eyed and dehydrated.

The Society worked on many fund raisers including concessions at the Western Schools Woodsman’s Team Conclave and a raffle of prints donated by the Rocky Mountain Elk Foundation. We were recently the lucky recipients of an ASUM special allocation. This money will be used for the purchase of a computer for our office -- it's about time!

Our members have made nearly 2 dozen E.O.P. presentations to area elementary schools. Members have been fortunate enough to do some volunteer work for the BLM, RMEF, and U.S. Fish and Wildlife Service. This has allowed members to obtain invaluable experience in the field. Our chapter held approximately twenty meetings with professional speakers. Topics ranged from bull trout to wolves, as well as jobs, or the lack thereof.

The Wildlife Society is looking forward to another busy and successful year at the School of Forestry.

Chad Fealko
President, The Wildlife Society
Druids, weren’t they some sort of medieval religious sect? You mean there are Druids in the School of Forestry? Those are both typical responses when I refer to the University of Montana Druids in conversation. In the last few years we’ve tried to dispel a little of the mystery regarding our organization in order to attract needed members.

The UM Druids are actually an academic, service organization within the School of Forestry. We act as intermediaries between students and faculty and work to improve the quality of education provided by the school.

The last few years have been busy ones for the Druids. We’ve been active as student representatives on numerous search committees for new faculty. We help with peer advising for pre-registration and have assumed responsibility for distributing course evaluations at the end of each semester. This year’s largest project was resurrecting this yearbook, which was last published in 1991. We felt that there was an even greater need to cohesively record the projects and activities occurring in the Forestry School, now that there are over 1000 students working towards resource related degrees. Our final project for the year will be to help out with the annual awards banquet in April.

We have inducted a great group of motivated students, this year, to replace those graduating and I look forward to working with them during the 1995-96 school year.

Kearstin Edwards
President
The Student Recreation Association is an ASUM sponsored organization comprised mostly, but not solely, of students majoring in either emphasis of Recreation Management. The association is a great way to socialize with other students whose interests are similar. It is also an excellent opportunity for students to learn more about the field of recreation. We bring in guest lecturers from time to time to discuss various recreation issues and opportunities for employment.

Some of the club activities this year have included: three day backpacking trips, a Presidents' Weekend ski trip to Alta, Utah, and a raft trip on the Lochsa River in Idaho. Of the many work projects we have undertaken, our most successful was renovating a Missoula Parks and Rec. building for use as a children's Arts and Crafts Center.

Always on the lookout to improve our chances at employment, the Recreation Association helped to organize a Leave No Trace Certification session in Glacier National Park. Once there, members were instructed in Leave No Trace camping techniques by a National Outdoor Leadership School master.

We encourage student's who are looking for opportunities to enjoy the outdoors and who are interested in learning more about careers in the recreation profession to drop in at meeting and introduce yourself!
Over the last couple of years, the Society of American Foresters (SAF) student chapter has made several changes within the organization to provide numerous opportunities for students to embark upon. In doing so, we have been recognized at the national level for our commitment to recruiting new members and our active membership. In 1992 and 1993 the student chapter received a third place award in Bethesda, MD, and Indianapolis, ID. Last year we gladly accepted a second place award in Anchorage, AK. There’s only one spot left to fill and that is first place, which will be given to a student chapter in Portland, ME, during next year’s National SAF Convention.

Up to this point we have been very busy with work projects in order to pay off a $2570.00 loan to ASUM. This loan was used to fund the trip for seven student members to Anchorage for the 1994 National SAF Convention. We were recognized through ASUM as one of the first groups to take out a loan and pay it back before the budgeting process. Our biggest money maker was a pruning/thinning project near Seeley Lake that produced seven chords of marketable firewood. In March, we will send ten students to Whitefish to attend the State SAF Convention. While there, we will present our student chapter’s Vision Statement. We will also raffle off donated items to raise money for next year’s activities.

Oh, before I forget this brand new Dell 486 computer, which I’m typing on now, was acquired for all of the School of Forestry clubs through ASUM. Once again, we were the first club to ever obtain such an item.

Well in closing I would like to thank everyone for all of their help and support. My term will be ending soon but hopefully Micky Osborn, 1995 SAF student chapter Chair, will receive the same support which everyone provided for me.

Sincerely, Shawn Burd
SAF - Chair
FSA - President
In September, Shawn Burd, Kearstin Edwards, Steve Regan, John Tillotson, Ian Fletcher, Greg Allen and Larry Schroeder all student members from the University of Montana, and Jen Beall from FVCC, took a roadtrip to the National Society of American Foresters Convention in Alaska.

The eight members drove through most of British Columbia, Canada, and up to Anchorage on the Alkan Highway, stopping along the way to gather a bit of land management information from provincial offices. After fifty six hours straight on the road we had witnessed the fascinating Northern Lights, various wildlife and an abundance of breathtaking scenery. Upon arrival, we were greeted with the opportunity to explore the Kenai Peninsula and see both Portage and Exit Glaciers.

The information gathered on our way north will be used for a two-credit independant study course, designed by Ron Wakimoto, faculty chair advisor. This course was created so students could compare land management practices in Montana with those in Canada and Alaska.

The convention provided the opportunity for students to interact with other SAF chapter representatives, as well as a variety of forestry professionals. While there the UM student chapter received a second place award for the 1993-94 club membership and activities. Shawn Burd, student chapter Chair, also took second place in a two-mile Fun Run/Walk.

The return trip, through southeastern Alaska, was considerably shorter since we rode a ferry down the Alaska Marine Highway. We boarded the ferry in Haines and sailed down to Prince Rupert where we departed. In ten days we were able to accomplish this trip with a few near misses, fair roads and copious amounts of fun!

Sincerely, Shawn “Pokey” Burd
SAF-Chair
DING DING DING!!! 5am. I rustle out of bed. The fear of that damned alarm clock has my
adrenalin cruising through my veins. As I lace on my boots it dawns on me that this is
Sunday, and that in this logging camp Sunday is recuperation day. Ahh. Today is the day to
prove your worth to this outfit. I wake the rest of my unhappy crew. Oh how they wanted to
sleep, but as the sun poked over the horizon the anticipation of the upcoming events made
them stir to life. After a hearty breakfast of whiskey toast and eggs, they packed in their
chew and listened to what I had to say. “Today is the day to determine the best of you. Time
for you slackers to prove your worth. Strap on your spurs or grab your woods weapon of
choice and prepare to compete against that slimy lot of wannabe lumberjacks in the
neighboring camp. Don’t let me down crew. Let’s give em the corks!”

“These folks are good” I say to reassure
myself. “Even those a little wet behind the
ears, like Kodjo Leeds and Melissa Squire
seem to be pulling their weight.” As I stroll
around the ground I realize I have nothing to
fear as I watch Martin Balukas, that dam
Lithuanian, drag his corks over his opponent,
hook his choker around the monster spruce,
and sail back over the finish line. Mark
Kulman rockets up 50 ft. in his climb to whoop
his opponent. I notice the oozing gash on his
leg, undoubtedly a spur gash from his unfair
rival. Inspiration I guess. Garret Grothen and
Michelle Strouse will undoubtedly win the

Jack and Jill, they have never been beat.
To bad Garret won’t take any advice from
Michelle in powersaw, he had such good
potential, blockheaded son of a gun.

I stop and watch Kris Hosick power his
axe into wood making a notch for his
springboard. If that boy didn’t drink a
case a night his spring board wouldn’t
need to be so stout. He can still lift his
railroad tie into place faster than any of
those other choppers with their conven­tional boards. Katie Fisher should find a
smaller saw for her OP. Running a Scott
Kuehn hot saw for OP seems like overkill
to me, but, making comments to an OP
champ is not in my job description.

As the sun disappears and the snow starts
flying the burliers prepare. Poor Eve
Wolters, she sure got suckered into this one.
The crew needed the best burlier, and
so, no other choice. She always seems to
rake her opponents into submission. The
last event is the flume slide. Chris
“Skagit” Damrow and Davin “Beaker”
Jones volunteered for this one, bastards.
That flume is hellish’ steep and that
hallowed log seems not sturdy enough,
but those boys always seemed a couple
cans short of a six pack.

Once again we proved our worth, though
with the amount of booze consumed, its
hard to tell how. The team won the meet,
with Jeanne and Kris winning “Belle and
Bull” of the woods. Che won the axe
throw and Adam won the Choker race
with Kodjo following at a close second.
However, Kodjo made up for it by win­ning the OP. Rhonda had a good showing
on her first Bonzai, winning a bottle of
JD from Jeanne on an inside bet. I’m just
waiting for the next bunch of
yellowbellied bums to challenge us. No
worriers with this bunch of elite lumber­jacks.

Paul Lenmark
Captain
P.S. PROOF IS SPILLED: AWFC CONCLAVE WE SWEPT THE SHOW.

OVERALL TEAM

BELLE: JEANNE B

BULL: GARRETT G

WITH FINE PERFORMANCE FROM ALL!

I'm a high ballin' logger in a bean pole show
The School of Forestry Graduate Student Organization (FGSO) is now in its second semester of existence and has become the “glue” that bonds students from all disciplines within the School. Our mission is to provide an arena for graduate students to network and voice concerns and ideas. We have received generous encouragement and support from Dean Perry Brown, and hope to have a self-supporting operating budget in place by next year.

FGSO was created through the efforts of many graduate students who recognized the need to have an organized voice within the School of Forestry. During a meeting with Dean Brown and graduate students, early last fall semester, it was suggested that we form such an organization. Thanks to the exuberant energy of PhD candidate Beth Brantley and plenty of other volunteers, we were able to have our first meeting shortly thereafter. FGSO has no official leadership and depends entirely on members to organize meetings, speakers and special projects.

We meet once a month and typically have a guest speaker. Past topics and speakers include: Wolves in the Arctic (Diane Boyd), Endangered Species Recovery (Greg Schildwachter), and Internet and Computer Opportunities on Campus (Rohn Wood). Doug Chadwick, a well known author, journalist and researcher, will be coming to speak to FGSO in April.

FGSO has designated their own class and teacher evaluation forms that will be available for graduate students and professors to review. The objective, is to provide incoming students with information on classes, and provide constructive criticism to faculty. The FGSO was instrumental in planning this spring’s graduate student orientation meeting and hopes to have a more complete information packet for new students in the fall. FGSO has also established a Faculty Excellence Award to recognize outstanding professors around the campus.

We are well represented by the various disciplines within the School of Forestry, and our monthly meetings have been a good opportunity for networking. At a typical meeting you might share information on an upcoming seminar or comment on the snow conditions at Lolo Pass. We started a directory of the School of Forestry Graduate Students, listing phone numbers, disciplines, and hobbies. Eventually this will be updated to include E-mail addresses. Although free time is quite limited for most of us, we do meet occasionally on Thursday nights at the Iron Horse.

Currently, Master’s candidate, Charlie Sperry is serving as the spokesperson for the FGSO and can be contacted at ext. 6511 for more information. There is also bulletin board on the first floor of the Forestry building which posts upcoming meetings and special events.

graduate work in progress
Thesis Option --
Constructing Understory Biomass Equations

Sangamon State University is a small institution in central Illinois where I studied environmental sciences and received my Bachelor's degree. I am currently a Research Assistant for Kelsey Milner in the School of Forestry.

I am interested in quantitative forestry. My "niche" in the community of pedagogues is to produce a thesis on "Constructing Understory Biomass Equations". Quantifying understory vegetation is essential to address such issues as available browse, competition for site resources, fuel-loading, or habitat. The equations I derive will be components of a growth model. Growth models are a foresters most powerful tool. Growth models are used to estimate timber volumes, predict growth rates, apply silvicultural prescriptions, analyze forage and browse, etc... These models use equations and an extensive set of site conditions to predict the growth of a tree or a stand.

Existing biomass equations require expensive, time consuming measurements of individual plants. As managers of the forest, we are often asked to make reliable predictions. These prediction models need dependable estimates of biomass that are easily obtained. With a pilot-study behind me, I am going into my second field season with the objective of construction understory biomass equations based on percent cover for several understory species in Western Montana. Biomass prediction equations that use operational inventory data will enable forest managers to meet new demands in an economically feasible manner.

Melinda Stivers, Forestry Graduate Student

INFLUENCE OF CATTLE AND WILD UNGULATE GRAZING ON VEGETATION OF THE THEODORE ROOSEVELT MEMORIAL RANCH, DUPUYER, MONTANA

I am evaluating the effects of grazing impacts of cattle, deer, and elk on range condition. The results will be used to encourage livestock management that maintains high quality wildlife habitat along the Rocky Mountain Front.

It is common to hear about the effects of livestock grazing on wildlife habitat, but wild ungulates such as deer and elk also significantly affect the vegetation available for livestock. Much has been written about plant-herbivore interactions in grazed systems. Interactions are often highly site, time, and species specific. Grazing impacts by livestock and wildlife are necessarily site specific due to the plant communities present, grazing management, animals species present, size of wildlife populations, stocking rate, and site specific biotic and abiotic conditions. As the number of animals on a given area increases, the plant community may become degraded. This effect can be visually and quantitatively determined using exclosures. Grazing exclosures have long been used to investigate the effects of animals on their habitat. Paired exclosures (which exclude cattle and both cattle and wildlife) were set up in five community types on the Theodore Roosevelt Memorial Ranch near Dupuyer, Montana, and baseline vegetation data was collected in 1987 and 1988. This field season will provide an opportunity to recollect the data and quantify changes in vegetation due to changes in management strategies and in response to prevailing grazing pressure.

Kris Hurlburt. Boone and Crockett Research Assistant
Section 13 is a parcel of land within Lubrecht forest, managed by the Forestry Students Association. In the past, several different management activities have been implemented within the section including; timber harvest and stand structure manipulation to promote forest health. All of the revenue generated from these activities is placed in a fund which finances future management for the section.

Currently we are completing a timber sale on Section 13 that was initiated by students five years ago. A state road will be extended into Section 13 from the Garnet Range Road this spring, providing access to the section’s southeast corner. Currently, two sale units are in place. The first is an uneven management prescription designed around a sample distribution, drawn up with the help of Carl Fiedler. This will be the first uneven aged management prescription implemented on the section. The second unit is a Larch shelterwood. Logging in the units will commence early next winter, as soon as the roads and ground are frozen. Plenty of help is still needed in painting the units and eventually burning slash, so contact John Tillotsen if you’re ready to stag your sleeves and learn from a sourdough.

M. Balukas
Activities
and
Events
(Bells, Whistles, and Stuff)
WORDS USED IN THE WOODS BY THE TRUE OUTDOORSMAN

By Roland Cheek copyright 1991

**BACKPACK:** Medieval torture device from the Spanish Inquisition. Used sparingly, hurts only a little. However, confined within maze of sadistic straps, loaded with overnight rations and all other accouterments necessary for immediate survival in inclement weather and faced with a three-mile hike or a thousand-foot climb, broken prisoners have been known to recant, gasp out locations for buried heirlooms, or babble endlessly about frosted glasses of beer.

**BEER:** Delectable, delightful, deliciously cool, thirst-quenching beverage one has to swear to forego forever when backpacking; or until the end of the present trip.

**CAMPFIRE:** An exhausting rite of return to mystic origins. There is, however, a slight chance it could be a functional camping accessory when accompanied by dry wood and a match for ignition.

**DEHYDRATED FOOD:** Smells good, tastes bad. Supplies minimum daily requirements to lie in a torpor on the emergency room operating table of Johns Hopkins Hospital.

**HIKING BOOTS:** Pleasingly comfortable sheaths to encircle lower appendages. Used to absorb shock or fend off abrasions, scratches and blisters. (See moleskin)

**MOLESKIN:** Emergency adhesive repair material if hiking boots are not pleasingly comfortable, and if they fail to absorb shock or fend off abrasions, scratches and blisters. See also Iodine, stretcher and 911.

**MOUNTAIN TOP:** Mythical summit viewed by modern man only amid haze of induced dreams or from the porthole of a 737. An ancient known as Moses was once supposed to have ascended to a summit but there’s little hard evidence to substantiate the legend.

**PONCHO:** Ludicrous portable tent to be used during a rainstorm... as if anyone smart enough to read this column would be caught outside in a rainstorm!

**RIVER FORD:** Unlike mountaintops, river fords are common occurrences to backpackers caught outside in a rainstorm. One must exercise considerable caution when traversing a ford. Always know the stream bottom, stream depth, stream speed, etc. And how can anyone know that stuff?

**SLEEPING BAG:** A silky envelope of nylon and goose down, too hot in August and too cold in March and October. Much too bulky and voluminous to fit into the stuffbag that came with it.

**SLEEPING PAD:** This one is an oriental torture device akin to dripping water. Lay on it and try to sleep--I dare you!

**SPACE BLANKET:** A handy, tightly folded, eight-foot square of super-thin foil. Has no earthly value.

**SWITCHBACK:** A trail reversal. Now you’re staggering along under your loaded backpack -- suddenly there’s no trail. Rule number 1: look around. Likely it’s a switchback, but it could be a washout or end along a clifftop. Avoid switchbacks like the plague -- they mean you’re climbing!

**TRAIL:** Part of our American transportation system. Largely constructed during the Great Depression then continued during the Century’s second half. Later construction known as the Interstate Highway System. Latter half more expensive.
A GREEN AXEMAN LEAVES A BOGGLED NOTCH  (Horace Kephart)

A TOAST:

HERE'S TO THAT BIG BUCK
THAT ROAMLS THE WOODS.
HE DOES THOSE DOES
AND HE DOES 'EM GOOD. IF IT
WEREN'T FOR THAT BIG BUCK
AND HIS BIG ROD,
WE'D HAVE NO VENISON, BY GOD!

DEBORAH PERKINS
“Playing Games With Mother Nature”

Whereeee’s the rain? Come rain or fire, the Forestry Club was determined to proceed with the “1994 Smokeless Fall Smoker” despite Mother Nature’s many attempts to halt our progress.

The 1994 fires and their restrictions played a major role in determining this year’s events, including the pig roast. This year’s field trip was very unique in that we took the new and old students to a logging sale near the Seeley Lake area. Bruce Schlaebitz, a forester for Plum Creek, led the tour and explained Plum Creek’s “Environmental Principles” and different logging techniques. Jim Clay Logging provided the equipment and gave a demonstration of a slide-boom delimber on a deck of trees. Darius Adams and Claire Montgomery, both forestry faculty, were among those who attended this action packed trip. In other events, Scott "Jr." Hicswa, a forester for Plum Creek and UM forestry alumni, along with Pat Price, UM forestry alumni, helped teach the students how to use a compass and clinometer. Kris Hosick taught a saw safety class, demonstrating how to fell a tree and discussing the dangers involved. Kate Davis, raptor specialist, spoke and brought in injured birds as part of her presentation. Kearstin Edwards and Mike Meehan presented a slide show on the Recreation Management Program. Jeff Hipkins, a forester for Plum Creek, demonstrated the proper techniques for skinning and mounting wildlife.

Since there were fire restrictions for the Lubrecht area, we were unable to cook the pig underground, but we did barbeque the pig over a grill, and it turned out to be very good. A bonfire was also restricted, so we decided to use a generator to supply electricity to lights placed up in the trees. Since we broke tradition by not having a fire, we decided to call it the “1st Annual pig-eatin, instrument usin’, de-limbing, sorta-cruising, safety-learning, wing flapping, music playing, knee slapping inauguration to the University of Montana School of Forestry.”

No kiddin, it’s the truth

Shawn “Pokey” Burd
FSA-President
“I am Montana’s first forestry student poet,” proclaimed Vessar during a break in the nights slam-dancing.

The night was clear
Many stars in the sky
The sweet smell of beer
Pokey’s so hammered, he could cry.

This wasn’t a night
for lawyers or snags
We wore loggin’ boots,
Carharts and a couple of Dew Rays.

We didn’t have a fire,
Saws or a choker.
But we had music and beer-
ONE HELLUVA FALL SMOKER!
Bandy Day was a great success this year. About fifty people traveled to the Bandy Ranch for a work day, including some faculty and the Dean of Students, Barb Hollman. Dean Hollman had a good time and Ian "Peon" Fletcher taught her how to run a saw. Fence building was the main project of the day, and, darlin', did we build a whole mess of fence! A few lazy sods were kind enough to spend their time painting the barn door.

Lunch was served at about 1:30 and thanks to Erin Bentley and Sean Koch the meal got off without a hitch (Koch didn't even cut himself). The entire group was entertained by Eve, Melissa, and Jen swimming with Lewis, Kodjo, and Ian in the pond. The day was productive and Bruce, the ranch manager, was very appreciative. I would like to thank all who helped me organize the day and all of those who helped with the work projects. Thanks also goes out to those who helped cut the poles the weekend before.

Fitzhugh Elder, IV  
Twelfth generation Virginian,  
distinguished gentleman from the South,  
and FSA Vice President, 1994-1995
Who likes Saturday labs? I do. (Please disregard my attendance record.) In fact, I submit that all labs are a good deal. Where else on campus can a student undergo 5 hours a week of academic instruction (in such noble pursuits as digging holes, boring holes, or spitting on the headrig, no less) for the bargain price of only 3 credits?

Labs break down the classroom barriers. During labs you don’t even need Nordic skis, or Asolo’s and a dog to enjoy Pattee Canyon. Rather than grueling athletics, you can preform mental exercise, at minimal expense (that Relaskop I broke costs HOW MUCH??).

What greater symbol of unity and education than the yellow school bus? Apart from a few dissenters in ultra-cool 4WD pickups, the same kids whose mothers probably dropped them off at the bus stop in Volvo station wagons years ago, labs enable us to commune with green Naugahyde and relive yester-year at a bargain price.

So, do not my friends, bemoan your lost time, I implore you, enjoy the EXPERIENCE!

Guest Article by,

Melvin
The Christmas party for 1994 was held at the palatial home of Paul Lenmark and his sidekick Martin Balukas, at the overjoyment of their other roommates. One must bear with me in my retelling of the accounts of that night. For one, the party was in full swing when I got there with my friend Jack D., who became the life of my party promptly upon my arrival. Showing up late, I missed one of the largest spectacles to have taken place this year. Santa Vessar and Elf Pokey were handing out presents to all the good boys and girls. There stood in line, in particular, one Jill Minor, whom we all know has been a good girl (if she has ever had a bad bone in her body it must have been Vessar’s). She got her turn to get up on Santa’s lap and Santa asked, “Mr. Claus wants to know if you would like to be Mrs. Claus?” and presented her with a ring. From what I hear, you could have heard a pin drop. Mrs. Claus finally found her voice and gave Mr. Claus enough to believe she was in agreement. For the next two weeks Jill sported both the perma-grin and perma-glow. Even thought it was cold as a witch’s tit those two weeks, she said she had never felt so warm. (Now do you suppose in this day and age of feminism that Jill will give up her last name? Let’s try out some of the alternatives. How does Jill Minor-Vessar catch you; or Jill Vessar-Minor (Oh the poor kids). I will leave it up to you to decide.)

So, back to the party. I had arrived after Santa’s proposal but people were still abuzz about it. The second big event of the night was the betting pool on who was going to yack and when. I arrived about 9:00 p.m. to find that a few freshmen girls had already needed the aid of a nurse. I do not recall who made money in the betting pool, but not many people were disappointed with who they laid money on. The party had a fine attendance with much tidings of good cheer to be had by all. Maestro Martin pulled out his guitar and broke into song, which completes any gathering held up in Miller Creek.

Dave Valentine
The 78th Foresters’ Ball hit Schrieber Gymnasium with the force of a freight train. With a buttload of foresters, wildlifers, rec. and range dudes hammering, sawing and generally having a good time, the Ball went on without a hitch.

Ball Week started out with the traditional Tracks on Sunday night. With the two best looking trucks in the Forestry Club playing engine and caboose, how could we go wrong??! Monday kicked off with Boondockers Day where the new Dean of the forestry school, Perry Brown, lost in the cowchip-tossing contest to Rod Smith, Dean of the law school. It was a sad scene, but since Rod is leaving, we figure next year we will own the crown. Monday night ended at the University Golf Course where Convocation was held. Pokey, Calvin and Steve led the ceremonies in their brand new, used dresses from the Good Will Store (only $2.99 each!!). Father Hose graced the audience with his non-denominational damning of everyone. The can-can girls shook their moneymakers, and everyone had a most glorious time.

Tuesday we all rested and recovered from the hoopla of the night before. And then it all started. At exactly 6:14 pm (Ball Time) the foresters stormed the gym with every intention of a takeover, but the aerobics class was exercising (and they were half naked). After kicking out the aerobics gals (and one guy???), the floor was laid, and many folks weren’t due to fatigue. Construction began Wednesday morning, and finally, when the smoke cleared and the dust settled, on Friday the Ball was built.

The next two nights were filled with rip-roarin’, foot-stompin’, bottle-tippin’ (and in Calvins case: ‘ass-barin’) good times. Erik Ray and the Fender Benders provided the music, and all participants provided the fun.

Sunday morning (not bright but early) Ol’ Dave Valentine took over and ramrodded deconstruction until about 6:30 that night. With all of the work over and school staring us in the face, there was only one thing we could do...TOWER!!!!

AUTHORS NOTE: Just one last time I want to thank anybody who had anything to do with the Ball. The Chief Push gets lots of compliments but the folks who really busted butt deserve ‘em. Good luck to Jeanne and crew next year. When Ball week rolls around I’ll be rollin’ into town to help y’all.

Thanks,
Marc Vessar
Chief Push, 78th Foresters’ Ball
Guest of Honor
Perry J. Brown
School of Forestry Dean

Perry J. Brown became the new Dean of the School of Forestry on September 1, 1994. He joined us from Oregon State University where he was the Associate Dean for Instruction, Continuing Education, and International Programs. Perry has numerous interests. His teaching background ranges from Forest Natural Resources Policy and Administration to Social Issues in Outdoor Recreation. His research studies include: Natural resources, river and wilderness planning; Tourism and tourist behavior and management; Public values and benefits of wildlife, natural resources and outdoor recreation. Perry has also published over 110 articles, papers and reports.

Perry and his wife Shirley have five children. Their youngest son, Michael, accompanied them to Missoula. The whole family is involved in sports and likes to hike, fish, camp and read. We would like to welcome Perry and his family into our family here at the University of Montana.

78th FORESTERS' BALL COMMITTEE

Marc Vessar -- Chief Push
Katie Fisher -- Administrative Assistant
Michelle Kastler -- Treasurer
Josiah Kelly -- Construction Foreman
Dave Valentine -- Deconstruction Foreman
John Tillotson -- Safety & Security Officer
Jen Hicswa -- Publicity Officer
Jill Minor -- Logistics
Claire Montgomery -- Faculty Advisor
Once again, the traditional cry that kicks off the Foresters’ Ball preparations and publicity echoed throughout the forestry building: “The Moose is Loose!”

Bertha, the Forestry Club mascot, was stolen once again. Bertha is a moose head mount with an impressive pair of antlers, she usually presides over the forestry 206 classroom, where the Forestry Club meetings are held. Her big outing for the year is as reigning queen over the Foresters’ Ball in January.

“She’s the only known female moose with antlers,” said Marc Vessar, wildlifer and Chief Push of the 78th Foresters’ Ball. The Chief Push has the responsibility of setting her curfew times and decides when she is allowed out of sight.

Bertha’s antlers and cape were donated separately to the School of Forestry in 1933. Bertha was christened upon combination of the two donations. Unlike regular moose, she has a tendency to wear out her hide. The periods in her life as a hostage have taken their toll and it is necessary to replace her battered cape every so often. Currently, she is donning a new and larger cape.

Stealing Bertha is definitely a tradition of the Foresters’ Ball. Vessar said it began as a big rivalry between the forestry school and the law school, as lawyers are the traditional business enemies of the timber industry. The law school would steal Bertha and hold her hostagee, the ransom; ball tickets and a case of Moosehead beer. However, the privilege of moose-napping is no longer monopolized by only one group on campus. Bertha’s list of captors now include; fraternities, gutsy, unaffiliated individuals and other university departments. While the price of the tickets has gone up since 1933, the ransom, for the most part, has been unaffected by inflation.

Bertha was moose-napped this year, before the fall semester began, in August. Her longest disappearance was for an entire year. She was moose-napped right after the Ball on Saturday night and was not returned until the Friday before the ball, the following year.

The foresters were not dealing well with Bertha’s missing status. They were becoming “Pretty darned emotionally unbalanced,” Vessar said, adding that the situation would remain volatile until Bertha was returned safely.

Highly perplexed, Vessar decided it was time to call out the Foresters Armed Response Team, better known as F.A.R.T. Their one objective was to “get Bertha back, unharmed, at any expense,” Vessar said.

Finally, the agreed upon exchange was at hand. The foresters were outside the University Center, at noon, on Friday, waiting for Bertha. The captors were late! Several foresters and alumni were heard, angrily expressing their intentions if they found that Bertha was hurt. Twenty minutes later, the moose-nappers arrived. Lucky for them, the foresters were still under control and the late arrival only elicited a few well aimed snowballs. Bertha was overjoyed to see the crowd of loyal foresters who had showed up to ensure her safety. The exchange took place and Bertha was returned to her place of honor at the Foresters’ Ball where she reigned with dignity once again.

Bertha has an esteemed role here at the School of Forestry. She is the one constant that greets new students when they enter the school, attends classes and extra-curricular activities with them and then bids them farewell as she oversees the School of Forestry graduation. It seems someone is always after her to pose in their picture. She has even blessed the weddings of a few former chief pushes with her presence. She is loved by the forestry students and alumni because she is an integral part of the school’s tradition.
!!THANKS FOR YOUR SUPPORT!!

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WE THANK YOU

EXPERIENCE THE WORLD THROUGH WORDS

HOURS: M-F...8 TO 6  SAT...10 TO 6
It's 10 PM, there's no moon, and the water is 49°. Another day at work for Greg Watson.

Greg is Plum Creek's fish ecologist.

He's directing a three-state survey of bull trout—gathering population and habitat data for known bull trout streams, and for critical fish-bearing streams on Plum Creek lands.

At night, when the trout are more active, Greg and his crew count them individually, using snorkeling gear and flashlights. The point is, the more we know about this kind of natural process, the better we can protect the streamside zones that fish depend on for clean water, shade and habitat.

What's more, we're sharing what we learn with state and federal agencies, so the benefits of the survey won't stop at Plum Creek's boundaries. And we now have study areas and survey techniques that will help in future research.

After all, good stewardship requires good science. That's why our staff includes not only a fish ecologist, but hydrologists and wildlife biologists. They're helping us make sure our lands aren't just a source of timber, but a source of life.
The forestry students would like to express their gratitude to four special professors that recently left the School's ranks:

Fred Gerlach
James Lowe
Joel Meier
Thomas Nimlos

The students greatly appreciate the commitment with which these faculty served the School of Forestry. Their contributions to the students' extracurricular activities is especially valued!

We wish you well and hope to see you often!
THIS YEAR'S ADDITION OF THE KAIMIN PROVED TO BE A TECHNOLOGICAL CHALLENGE FOR ME, BUT THANKS TO THE COMPUTER LITERACY OF CHRIS AND MIKE, THIS COLLECTION OF MEMORIES REQUIRED MUCH LESS CUTTING AND PASTING THAN PAST EDITIONS. A LUNG CRUSHING, BIG, BEAR HUG ALSO GOES TO JEANNE FOR SPENDING SO MUCH TIME ALONE IN THE DARK.

--OH! I MEANT IN THE DARKROOM.

SOMETIMES I WONDER HOW I GET INVOLVED IN PROJECTS LIKE THIS AND THEN I REALIZE THAT WITHOUT DISTRACTIONS OF THIS SORT, I WOULD HAVE TO SPEND MUCH MORE TIME DOING HOMEWORK. A MOTIVATING THOUGHT!

I APPRECIATE THE VALIANT EFFORTS OF ALL THOSE WHO VOLUNTEERED TO PROCRASTINATE ALONG WITH ME. WITHOUT THE HELP OF THE AD SALESPEOPLE AND JOURNALISTS, THIS WOULD HAVE JUST BEEN A BUNCH OF BLANK PAGES WITH A TITLE.

THANK YOU ALL!

KKE (Forest Empress)

KAIMIN STAFF

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CHRIS JONES
MIKE MEEHAN
DUNCAN LUTES
VERNA O'LEARY
MICHELLE STROUSE

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