

Forest Research

(Continued from page 1.)

meteorology, all of the Forest Service laboratories, Missoula: Rulon Gardner, road engineering, of the F. S. lab at Bozeman, and from the University of Montana, cooperators scientists: Dr. Nellie Stark, nutrient cycling; Riley McClelland, bird life; Dick Konizeski and Howard Newman, hydrology. Newman's doctorate thesis is on the project.

Schmidt pointed out the main studies of regeneration, stand development, understory vegetation.

Benson told of obtaining "pre-harvest inventories of everything — standing and down on the ground." This includes merchantable logs, as well as rotten, downed sound and small logs and tops.

Benson referred to utilization levels that in the case of fiber would go down to 1 inch diameter. There was comment on evaluating product potential for particleboard and paper.

Gardner's comments included the importance of reducing impacts on the forest by building fewer roads. He said "narrow roads create less disturbance," and the 14-foot wide — 2.046 mile road — on Desert Mountain "opens less county to erosion."

Barger referred to the Forest Service looking "usually to universities" for scientific help not available on its staff.

Dr. Stark of the UM forestry school told of the importance of "nutrient cycling," nutrient inputs and removal. More than 300 samples are being taken on the Desert Mountain tract.

Hydrology topics included Newman mentioning that the long-established Desert Mountain snow course had a portion used by snow-mobilizers. Result was moving a part of the course which made for poor data comparison with previous years.

He referred to different snow melt rates in clear cuts compared to timber areas, and possible effects on regeneration. Where timber is harvested stream flow increases, and then with vegetation coming back there is a change.

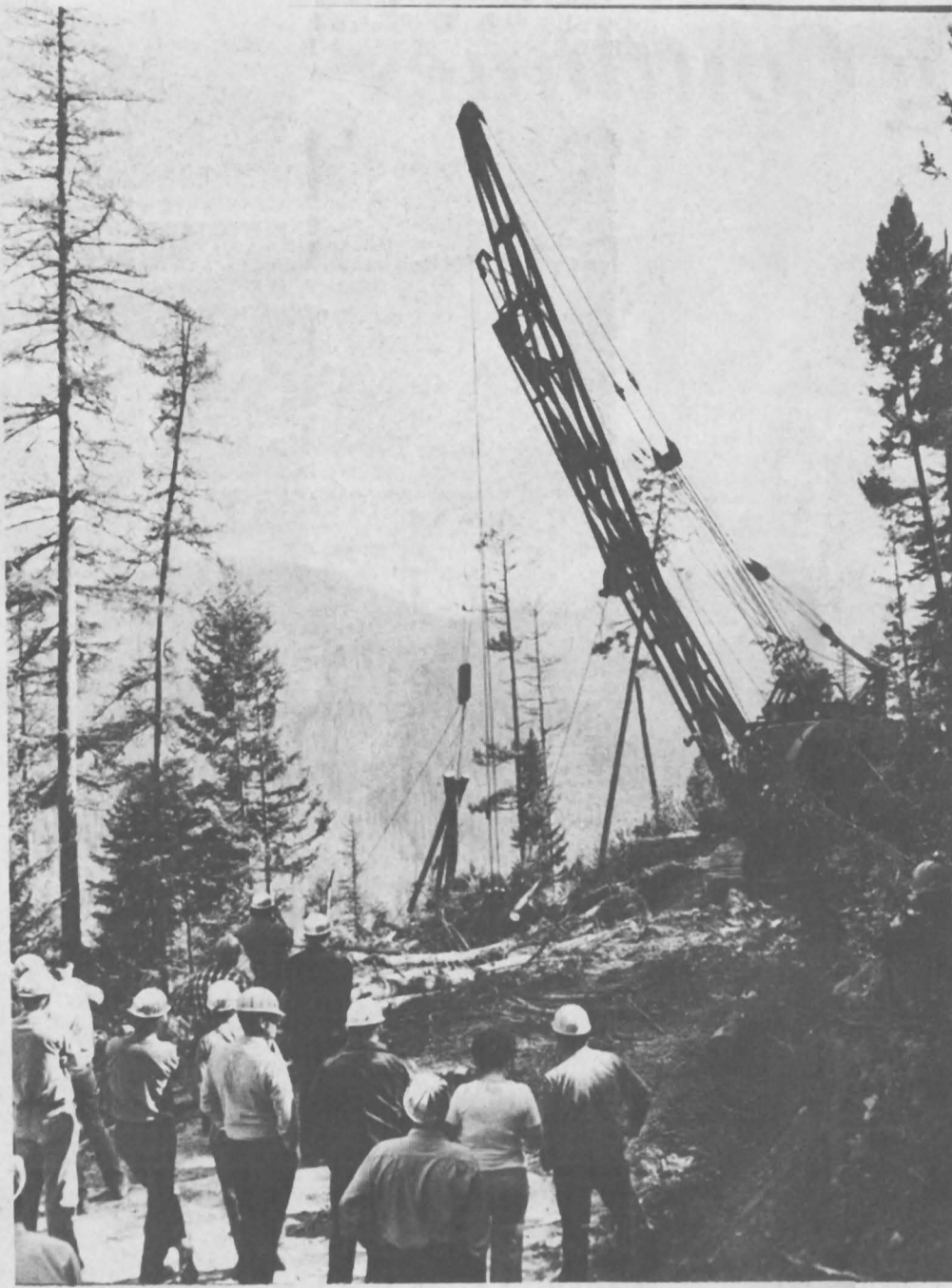
Konizeski said that 70 per cent of the Desert Mountain precipitation came in the form of snow. Desert Mountain has two snow areas — the higher elevation accumulates through the winter, and lower has alternate melting. He also noted the thin soil cover on portions of the timber-covered area.

Hungerford said there was a network of meteorological stations gathering information. There are seven stations on the site. He added that 17 different species of plants from the Coeur d'Alene nursery were planted on roadside slopes for testing purposes.

Dr. Harvey referred to work of Mike Larson, and "what the removal of residue may mean." He told of importance of fungi in decay and decomposition. There's a microbiological lab at House 21, Hungry Horse Village.

Dr. Fellin noted inroads of western budworm in recent years which is affecting trees in Coram Experimental Forest. He said the absence of regeneration of Douglas fir is taking place because of the budworm. Size of cutting units could be important in insect control; and possibly so could prescribed burning.

McClelland, formerly of Glacier National Park, is studying the bird phase. He's located 88 nests and told of birds preferring dead tops of



ALSO VISITED WAS link-belt cableway operated by Gary Peiffer with loader next to the logging crane. hookers, Don Luce, Rob Seville and Lee Swanson. James Schreckengust operated loader next to the logging crane.

such trees as larch and paper birch, and feeding sites such as broken topped fir.

McClelland felt it was important to leave a few paper birch in clear cuts. Birds don't overcome insect epidemics, but they are a factor in control.

Royce Satterlee of Stoltze Land and Lumber Co. was contacted by Orin Bleken of KOFI. Satterlee felt that the investment required for skyline (or cableway) logging was high — about \$200,000 — and with this investment "we'd have to keep it busy." He felt that the economics of cableway logging weren't practical.

The Hungry Horse News featured a picture story of cableway logging up the Flathead's North Fork by Canyon Logging Co. two years ago.

Logging Snags For Pulp Mill

"True conservation" is noted in logging operations which are seeing dry standing snags — previously considered waste to be burned — cut and sold for pulp. It's spruce bark beetle kill.

Royal Logging Co., Columbia Falls, is logging dry standing spruce snags in the Bunker Creek drainage and shipping them to the coast.

H. A. Larson, Royal Logging president, commented that "it looks like about two million board feet will come out of Bunker Creek." Eight carloads of the dry snags were loaded and ready for shipment via Burlington Northern Wednesday.

Stockpiles of the former waste product are near Plum Creek's lumber plant in Columbia Falls. Royal Logging Co. has been logging the dry snags for about a month. Approximately 20 men are employed in the snag logging and hauling operations using seven trucks.

Timber Sales

Two timber sales at Glacier View Ranger District, Flathead National Forest, saw one bidder for green saw logs and three bidders for pulp area salvage sale, Monday.

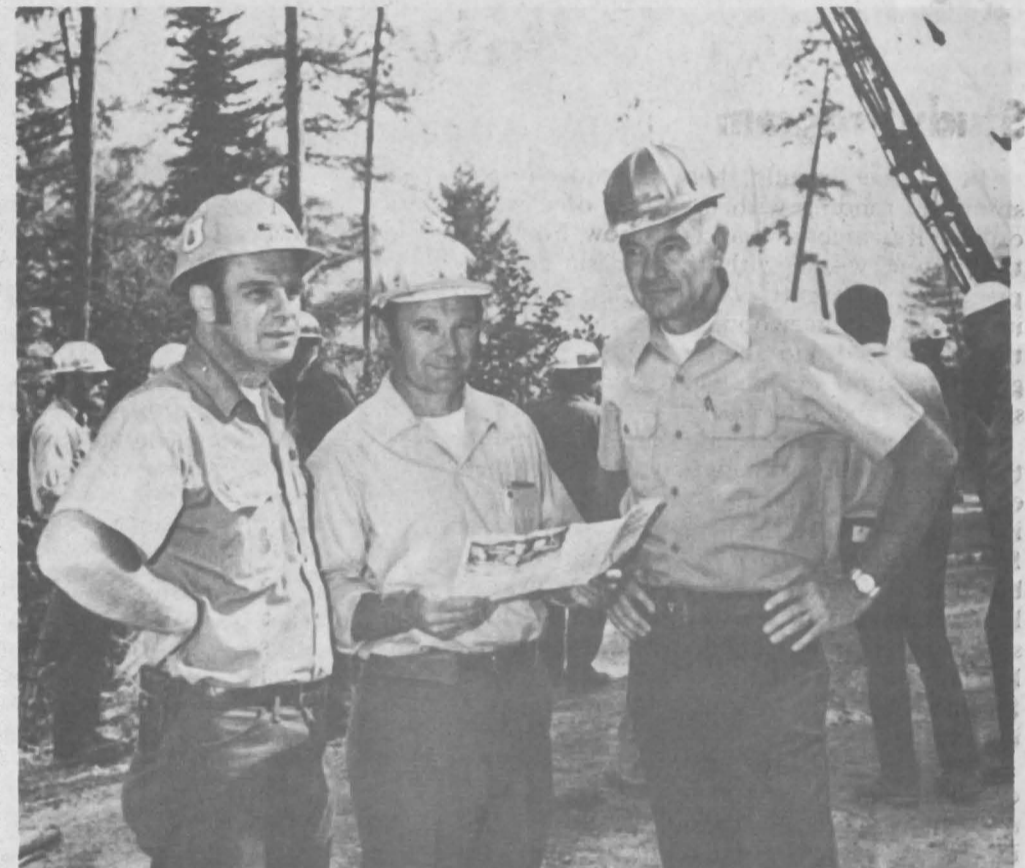
Galloway Brothers, Kalispell, bid \$16,686 for 81 mbf of larch green saw logs on the Hay-Moran Overstory sale. Appraised value of the sale, which must be completed by Dec. 31, 1974, was \$15,633, which includes slash.

Hoerner-Waldorf Corp., Missoula, was successful bidder offering \$4,250 for 1,700 board feet on the Frozen Lake pulp area salvage all species sale. Sale was appraised at \$850.

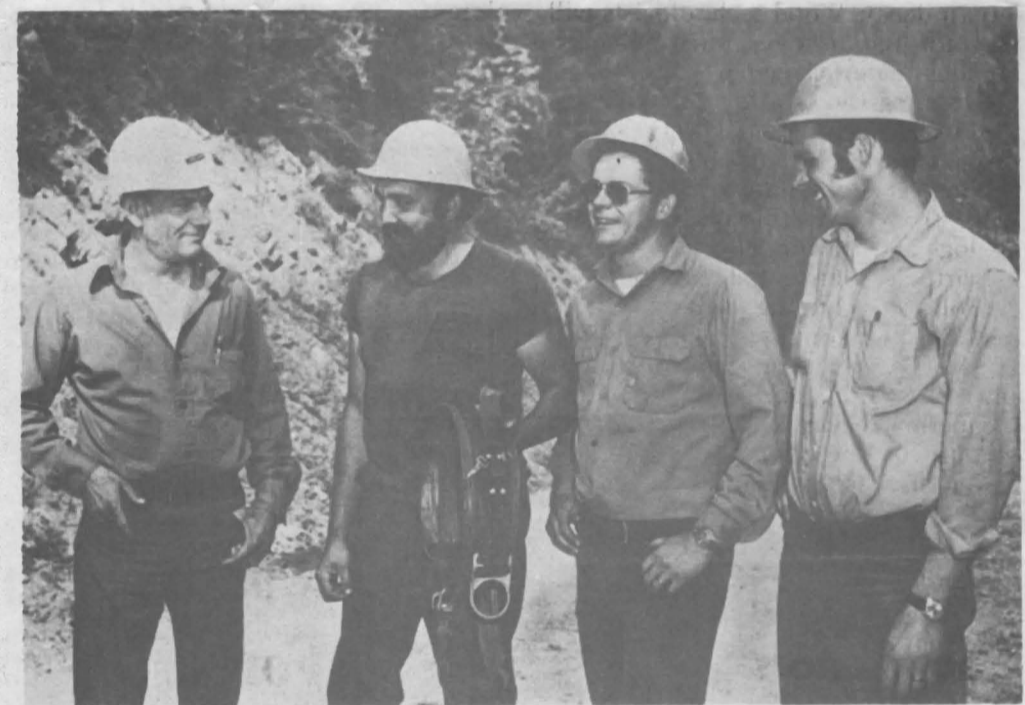
Other bidders were Bryan L. Stanley, Kalispell, offering \$1,717; and Richard Hillstrom, Whitefish, with \$1,275. Sale runs until Sept. 30, 1975.



ROYAL LOGGING'S SKAGIT Operator is Tom Albert with hookers, Bob LOGGER was viewed by men. Running cable system reduces terrain damage. Albert, Bud Koppy and Chuck Major.



KEYNOTE PARTS in Coram Experimental Forest harvesting system program that saw about 130 men on tours Wednesday and Thursday were Chuck Brooks, Hungry Horse District ranger, who opened program; Dr. Roger R. Bay, director of F. S. Intermountain Experi-



ROYAL LOGGING men employed Craft, woods boss, with riggers, Larry on Desert Mountain include John Mack and Jim and Kermit Johnsrud.



SKYLINE LOGGING results in less disturbance of soil cover.

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★ SUPER STARS! ★

Clint Eastwood, James Garner, George Segal, Burt Lancaster, Paul Newman, Joanne Woodward, Charles Bronson, Yul Brynner, Robert Redford, Gregory Peck, Walter Matthau, Burt Reynolds, Glenda Jackson, Anne Bancroft, Charlton Heston, Dick Van Dyke, James Stewart, Roddy McDowall, Kim Hunter, Robert Mitchum, James Earl Jones, Warren Beatty, Faye Dunaway, Steve McQueen...AND MORE!

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