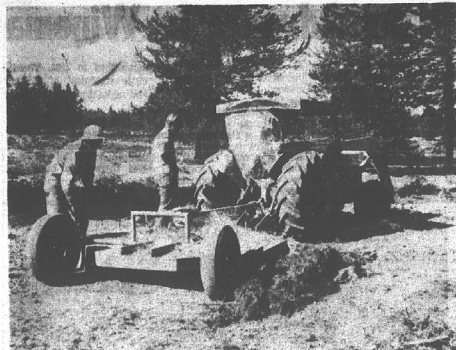


Forest Management Plans Advance

(Continued from Page 3-A)



RECONVERTS JACKPINE — A rotary type mower is being used here to reconvert a jackpine thicket to a meadow. Ernest Hener, left, and Bob Brett are shown with a Fury Mower and Massey Ferguson tractor at the Bullfrog Spring area.



INTO THE FOREST — The Winema Forest development following a partial cut timber sale operation on the Klamath Ranger District recently.

cant additions to the road and trail development.

Trail construction was concentrated in the Sky Lake Area with improvements to the Oregon Skyline Trail. Improvements of old roads and new trails to previously inaccessible areas offer new opportunities for exploration in the high country.

Road developments were well distributed through the forest and include timber access, recreation and administrative roads. The majority of road work was done by contract. At the close of 1964, contracts for 42.5 miles of forest road were in force. Contracts awarded during 1964 totaled for an additional 10.4 miles were completed during the year. The value of contracts \$294,286; a large portion of which involved contractors and equipment owners in the Klamath Basin.

Following are some of the

more significant roads which were 1964 projects:

The East-West Road is 6.2 miles of new construction extending east from the end of the Head-Of-The-River County Road towards the Sycan River. This will become an important interforest road between the Fremont and Winema national forests.

Work continued throughout the season on the Spencer Creek Road. It is in the final stages of construction and will provide a high standard timber access route from the head of Indian County Road to Keno, 10.7 miles are under contract by the forest service. Klamath County has recently completed a like section on the Dead Indian County Road. The Silent Creek Road, which provides access to valuable timber stands in the "panhandle" area. This is the portion of the Winema Forest lying east of Crater Lake National Park and west of Highway 97.

Our road development program included a ramp and approach road for a new log scaling station on the north outskirts of Klamath Falls. This improvement has provided more convenient scaling facilities for the truckers and by centralizing the scaling services has reduced the overall cost of log scaling on the forest.

A significant road mileage was built by timber purchasers in conjunction with a timber harvesting program. There were 33.6 miles of construction or reconstruction accomplished as part of several timber sale contracts. The value of roads built by timber purchasers is partial payment for national forest stumpage and stumpage prices are reduced accordingly.

Livestock On The Range
Each year a number of Klamath Basin livestock operators take their cattle and sheep to the forest for summer pasture. In 1964 there were 2,400 cattle permitted on the forest and 7,400 head of sheep. Our emphasis in 1964 was on range structures and improvements. Over parts of the forest there has been a history of unrestricted cattle movement. Fencing and calldguards have been necessary to control livestock numbers and prevent trespasses.

The absence of water has been a limiting factor on much of the national forest range. In 1964, 17 separate water developments were installed, but probably the most effective range development

program is one which includes watershed improvement and rehabilitation of the land.

An intensive rehabilitation program was started this past fall on the "No Name" cattle allotment on the Chiloquin District. Brush dams were installed in a water channel through the meadow to check further erosion and to raise the water table. A depleted portion of the meadow was reseeded, sagebrush encroachment on valuable meadow was removed, and fences were installed to control the movement of livestock. It is intended to protect the range for two or three years to allow the seeding to become established.

Once the area is stabilized and a new stand of vegetation established, the area will again be placed under grazing use.

There are instances where misuse of meadow land has caused encroachment of lodgepole timber and, in fact, tree growth is out of place. Spraying, cutting or mowing are possible methods of control. A large rotary type mower was used to remove lodgepole encroachment on one important meadow area on the Chemult District. This treatment will increase the forage capacity in a significant amount.

Forest Watersheds

With the memory of the Christmas week floods so fresh in our minds, any discussion of forest land property would be incomplete without recognizing the watershed values that are involved. The Klamath Basin, like many agricultural areas of the state, is dependent upon the water which originates in the mountains and is necessary to produce an agricultural crop.

The Winema Forest is blessed with many beautiful

streams and lakes and springs which are the very life - blood of the land. Waters from the Winema Forest provide irrigation, recreation, wildlife habitat and power, and feed the underground reservoirs that underlie the rich Klamath Basin.

The management practices applied on the forest land can affect the flow of water. Through proper management our timber harvesting program can improve both water quality and quantity. Research has shown that openings in the forest canopy which are properly spaced will increase the winter snow pack, thereby increasing the total soil water flow. Conversely, it is

true that improperly logged areas can accelerate soil movement, place silt in the streams, impair water quality and ultimately decrease the water flow.

Foresters who manage this national forest property are ever mindful of this responsibility, and the decision to make each timber sale is with full knowledge of the impact on soil and water values involved.

In a similar manner, proper management of the range resources can influence the water-holding capacity of the soil. Under proper stocking of multiple use and sustained

game can graze the area and at the same time maintain proper soil cover, prevent erosion and increase the soil moisture - holding capacity.

The job of managing a forest property is a complex one. A forester is a man of many skills and, in the course of his everyday work, is called upon to deal with many aspects of land management. The Winema National Forest is truly a land of many uses, and our management objectives are to develop all resources to their fullest capacity in a well - rounded program of multiple use and sustained yield.



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