ch the amount of the yield o con-trees was very much be

industry will establish itself or

Pacific Coast and thus may give

ional value to the extensive yel

pine forests of eastern Orego

The local office of the Forest Ser-

hopes that its apropriation for

estigative work may be large en-

At Vaughan-Parker Ranch

Lambing is well under way at the

The growing tendency among sheep-

Henry Peterson, son of Mr. and

school as well as an overseas veteran.

was married in McPherson, Kansas.

Miss Ada Anderson, and is a niece

of Nels Johnson of Gooseberry. It

was while visiting with her uncle in

this county that the young people be-

nects to arrive home with his bride

here are preparing to extend them

the proper welcome. The newly weds

will make their home at Gooseberry.

where Mr. Peterson is farming his

ment of this new unused forest re

nd for these products n eneugh it is not unlikely that

Washington:

generating Nove-lowerd of January regarding the engineering features of the work. Since the article was a written there has been about two miles of duca completed so that the total ditch work id this time is three

Progress on the 2 I-4 mile tunnel sugh to enable it to carry on addifor the Teel Irrigation District to monal studies this year, which would I marilla County, Gregon, has reach- pave the way for industrial developod 18 feet per heading per day. The tunnel will divert water from the source, matrils river. It will be fed by a Lambing Well Under Way 17 mile collecting canal, rapping Camas. Hidaway and Cable ceeks. From the number the water will flow through the natural channel of Buter Greek for 25 miles to a point Vaughan-Parker ranch just below where it will be diverted and dis- town, announces Manager Frank Parinibuted. The lands to be irrigated her. The lambs are big husky fellows he at an elevation of 600 to 900 feet and are doing fine. There are 49 of above sea level, in the vicinity of them and not one has been lost yet.

In addition to the tunnel and main men is to start lambing operations canal there will be diversion dams, ourlier than in past years, sidehill flumes, trestle flumes, inver- time of the year this necessitates shed ted siphons, concrete drops and lambing, owing to the severe weather. chutes, cement lined ditches, and a number of bands of sheep in the other special construction works. A Butter creek section are lambing at sawmill plant with a daily capacity the present time. of 20,000 feet has been installed on

The tunnel is 12,541 feet long, 8 Henry Peterson Married in Kansas. clear, with an arched roof. Its grade Mrs. Aaron Peterson of Gooseberry is 0.5 per cent and the greatest depth below the surface is 640 feet. At each end is a plant with 180 h, p. boilers and engines driving 10x12 recently. His bride was formerly compressors. A 50-inch fan drives Miss Ada Anderson, and is a niece the smoke and foul air from the face of the tunnel through an 18-inch pipe, so that the muckers are usually at work in from 5 to 5 minutes came acquainted. Mr. Peterson exafter a blast has been fired.

At each tunnel face are two air next Saturday and their many friends drills mounted side by side on a horozontal bar. Three 8-hour shifts are worked at each end of the tunnel, with two drillers and three muckers. They average air feet per shift or 18 feet per day, except that where timbering is required the pro-

where timbering is required the progress is from 10 to 12 feet per day. The rock is basalt, more or less broken at the beginning but becoming harder as the work progresses.

About 14 miles of excavation will be required on the main canal, about one mile of this being in solid rock, and the remainder in a heavy black clayey loam. The bottom width is 15 feet with side slopes of 1 on 1. This excavation is being done at the rate of about 1000 cable yards per day by a caterpillar mounted steam shovel, having a 1 1-2 yard bucket. About a mile of canal has been excavated by the middle of November. The diversion dam is of timber, rock and earth. 195 feet long, with an overflow crest or spillway 155 feet long. An abutment connects it with the wall of the canyon at the east end while a combination headgate and abutment connects it with the canal at the west end. There are four controlling gates in the dam.

Construction work was started about September 1. It is expected that excavation will be continued during the winter, but the flumes and trestles will not be started until spring, the main canal being at an elevation of about 3,600 feet. W. B. Hinkle, consulting engineer, of Echo Oregon, is engineer in chief for the Teel Irrigation District.—Echo News.

ATIONAL FOREST RE-NATIONAL FOREST RE-

The receipts from National Forest business in the North Pacific District for the six months ending December 31, 1919, were \$208,968,82, an increase of \$41,552.40 over the receipts for the corresponding six months in 1918, according to a statement of net receipts by forests and classes just compiled by H. I. Loving, District Fiscal Agent.

District Fiscal Agent. Timber sales, which brought in \$215,952.70, is the leading item; \$6,447.86 came from water power; \$5,288.86 from special use permits; \$3,774.74 from grazing permits; and \$600 from timber settlement. More than \$7,300 of the total recelpts came from fire, grazing, and timber trespuss. Six Forests of the District contributed more than \$19,-666 each to the total. The Whitman

District contributed more than \$10.000 each to the total. The Whitman National Forest, in Eastern Oregon, led the District with \$46,084.82. The Tongasa, in Alaska, was second, with \$44.169.66; and the Crater, in Southern Oregon, was third, with \$27.942.37. The Columbia, \$16.491.14; the Oregon, \$14.016.23; and the Olympic, \$14.015.26, ranked fourth, fifth and sixth respectively.

Forest Service Anticipates New Use for Yellow Pine Forests.

The use of western yellow pine as a source of turpentine and resin is anticipated in a report regarding the possibilities of extracting naval stores from the yellow pine trees on the National Forests of this territory just completed by Forest Examiner R. H. Weitknecht of the District Forester's Office. The report, together with a proposed policy for the Department to follow, has been sent to the Washington office for consideration.

While in France as an officer in the Field Artillery, Captain Weltknecht had an opportunity to see turpentining in the maritime pine forests on the Bay of Biscay and learned something of the French methods

which are applicable in this country. The yellow pine forests of the South Atlantic and Guif States are fast disappearing and the industry must seek new fields. The study on which this report is based was undertaken in anticipation of the possible

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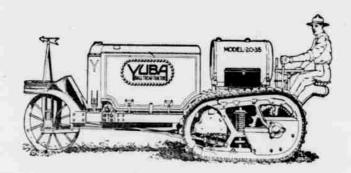
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