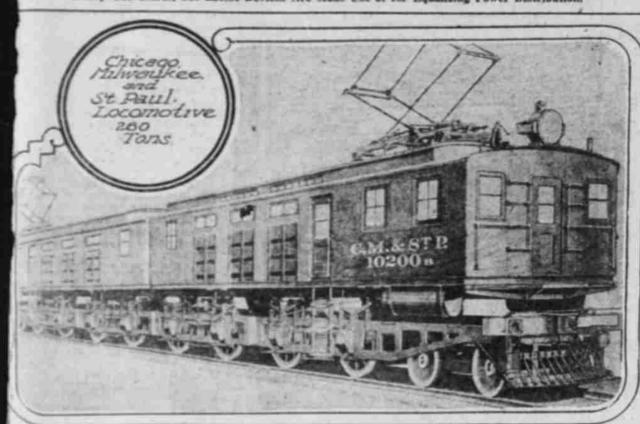
FIRST SECTION OF BIG RAILWAY SOON WILL OPERATE ELECTRICALLY

Evision Between Harlowtown, Mont., and Avery, Idaho, Crosses Three Ranges of Mountains With Grades and Heavy Curvatures, but Latest Devices Are Made Use of for Equalizing Power Distribution





rection of the wankee Paul tobe Electrified

age of electric traction on transwe this secretion witness the

alectrification of 100 miles of in time of the Chicago, Milways 36. Paul Bailway between Haren, Mont. and Avery, Make. is work has been successfully ex d and within a few weeks electy will supplant steam permanentthe motive power on that portion

orn railroad men realize that but the initial step in an elsu-warmant that soon is to permeate initroad systems of the country cally the Western reads where city can be developed readily by

a superiority of electricity when pared to steam—that is in the way maliness, convenience, dependabil-and ocusing—are so apparent as to no detailed enumeration here. ctors of the Milwaukee road nized all these offrantages when, I five years ago, they doubled upon elffection. They selected the unit critication. They asserted the unit case Harbowtown and Avery be-it offers the best available water of. The fact that it is the most ou't perform of the line to operate susablered a burtler of

that they have turned the natural

that they have furned the natural tector into an advantage. here utilized the latest inventus in the field of electricity, so that newer that is generated by their ng running down hill will be fed ok into the line and made to pull he up the other side of the hill. In some nawly invented equipment he used to control the train on destending grades. By the carnot only will the trains be given kinned safety on the heavy grades, the regular are brake equipment he held in reserve for emergency but extensive went as whosh and is shown will be eliminated.

357 Miles Electrified.

e line between Mariowtown and y is 440.5 miles long. The electri-unit also includes 161 miles of and part tracks. This includes Rucky Mountain and Missoula ions with four engine districts intermediate terminate at Three of Duer Lodge and Alberton, Mont. greater part of the project will operated by electricity meen, but Missoula division, it is estimated. nut be ready for operation until

e entire project calls for an ex-



curcity can be developed readily by trailing the native water power.

It will the results of their and pleaser efforts that they already negentiating for the possibility of the possibi

Three Ranges Crossed.

In pointed out that electricity of many advantages ever steams, both an operating standpoint and as an amount factor. With immense volume factor. With immense volume factors. With immense volume factors. With immense volume factors. With immense volume factors. With immense volume factors with a larger constaint. The Belt Mountains for the fact of two heavy of water power constantly going aste in these Western regions, it presents that this matural sneegy but he converted into electricity a but he converted into electricity a but he converted into electricity are in proposed takes on added intering supply of call.

The length of this Mitter Root Mountains fill feet in length.

Traffic Not Heavy.

The traffic consists of two heavy fances in this local passenger trains, with a total freight every second day. The length of this latter grade presents one of the most serious problems in grade, and the finite of the summit of the Mitter Root Mountains fill feet in length.

Traffic Not Heavy.

The traffic consists of the traffic consists of the feet in length.

Traffic Not Heavy.

The traffic consists of the feet in length.

Traffic Not Heavy.

The traffic consists of fire time traffic with a line special to a third local passenger trains, with a total passenger trains to the sate slope and a 1 per cent grade presents one of the most serious problems to five freight traffic amounts to about the supply of call. Its miles west of Summit and 15 miles of the summit of the Sitter Traffic local passenger trains, with a total freight every second day.

The freight traffic amounts to about the supply of call.

The freight traffic amounts to about the supply of call. Its miles west of Summit and 15 miles of the summit of the supply in the supply of call.

Traffic Net Heavy.

The traffic onsists of two heavy trains constituted at this station of four freight traffic amounts to about the supply of call.

The supply of call the summit of the supply in the supply of call miles of the summit and 15 miles of t Three Ranges Crossed.

SYRIAN PRINCESS TO SPEAK THIS MORNING.



Electrification

at the summit of the Mitter Mountains, \$751 feet in length.

The local traffic originating within the fimits of the electrified zone is relatively small, Butts and Misbuils being the only cities of any importance. While the road brings considerable freight into Butte, it is the latest road into the city and reaches many industries only through counceting lines.

Of much additional inferent is the type of becometive that is to be used on this line. The company already has ordered from the General Electric Comordered from the General Electric Com-pany 42 locomotives, each weighing 282 1088. One of them recently was ex-hibited in the Milwaukee stations at

These locomotives, it is said, are the most powerful ever constructed, either team or electric. The general characteristics of these power units are sa follows:

weight (tune) ht on drivers (tanse) ht on each guidling truck (tone), or of driving sales or of houses length of lopogrative (feet) Wheel hase (feet, Inches) go (A.

2460 pproximate spend at these leads and grades (m. p. h.)

Power Being Bought. Princess Rahme Haider.

Princess Rahme Haider.

Princess Rahme Haider.

Princess Rahme Haider will speak at Josephine. Piedmont, Janney. Morel, be First Christian Church corper Park

developed and proposed by this com-pany have a total capacity of 241,000 horsepower, while large storage reser-voirs are in service, insuring an ainvoirs are in service, insuring an ample continuous supply of power. By this arrangement the railroad obtains power without the necessity of making the large initial investment which would otherwise be required, while, combining this with its large commercial load, the power company is able to sell the power cheaper than if it all went to the railroad.

This power is brought to the right of way as 100,000-voit, three-phase, efcycle alternating current. To deliver it at the required places it was necessary to construct 100 miles of transmission.

cycle alternating current. As a coessary at the required places it was necessary to construct 100 miles of transmission line to reach Two Dot, 54 miles to reach Josephine and 125 miles to reach Morel. In the vicinity of Butte, power was obtained by tapping existing lines. These new lines consist of two 45-100t poles spaced 1014 fest apart, and supporting a wooden crossarm 22 feet lons. Three transmission wires are supported. With the control of the control of the clurch. The poles are supported. Three transmission wires are supported. With the control of the clurch poles are not poles. We will be partied at the organ, also rendering according to the parties of the clurch. Preceding the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering according to the clurch. Preceding the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering according to the clurch. Preceding the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering according to the clurch. Preceding the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering according to the clurch. Preceding the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy presided at the organ, also rendering the wedding Mrs. Virginia Hutchison sang and Miss Neille Konnedy Three transmission wires are supported from this crossurm by suspension in-sulators, one between the two poles and one near each end. Twelve of these supports were built to the mile.

Tiny Lads Provide a Fish Story of No Mean Merit.

Alsen Youngsters Wrestle With and

farm on the upper Alsea a few days ago a large silverside salmon jumped high from the water, landing on the

The boys made a grab for the salmen, but it would slip from their grasp and soon there was a free-for-all scrap between the three. Finally, just as the younger fastened his fingers in the fish gills the latter gave a maddened flop and boy and fish toppled over into the river. The older brother grabbed the others coat and dragged both boy and fish ashore, as the little chap had never let go his hold. As they were proudly carrying their catch up the bank they ran square into the arms of a deputy game wanden, who had been an amused spectator of the affray. The boys made a grab for the sal

aspectator of the affray.

It was the day after the closed season on salmon, when the only legal methol to catch a salmon is by angling, and the little chaps realized this for they anxiously asked, "Are we pinched?"

pinched?"

When solemnly questioned as to the salmon, the younger said he didn't take the fish out of the river, but was just helding on and his brother pulled them both out, and that consequently he was not guilty of catching the fish.

They were released on their own recognizance, and the warden is still puzzling over whether or not the law was broken.

Promise to Feed Hobos Brings Many Visitors.

Phanksgiving Announcement Roseburg Man Taken Literally by "Knights of the Hoad."

ROSEBURG, Or., Nov. 27.—(Special.) W. Cardwell, of Roseburg, informed a C. student is a progressive farmer of ter. Miss Nell, to James J. Rohan, of she attended the wedding of Miss Floribeal newspaper reporter Wednesday Oregon City, where the young couple Scattle. -When State Representative W. that he intended to entertain only hoboes Thunksgiving day he got himself and wife into a peck of trouble.

The item was published and early Thankestving morning a "kaight of the read" appeared at the rear door of the Cardwell home in quest of food. Believing in the old adags, that it is Believing is the old adagn, that it is better to give than to receive, Mrs. Cardwell prepared an appetizing breakfast for the visitor.

During the remainder of the day the tramps came to the Cardwell home one by one and by 6 colock Mrs. Cardwell had appeared the appetites on were surried by the Rev. J. Allen of 11 transfents.

Marion County Expenses Revealed.

SALEM. Or., Nov. 27.—(Special.)— parsonage the Rev. J. For the 11 months of this year Marion was witness county has expended \$251.922 on its roads, according to reports filed in the office of the County Clerk. A total of \$2.910 yards of gravel and 20.384 len, both or rock have here haveled for the county of rock have here haveled for the county of th yards of rock have been hauled for improving the roads. Of the amount expended the sum of \$50.744 was used in gravel work; \$44.594 went for In gravel work, \$44,594 went for macadamising; \$57,634 for general re-pairs; \$13,919 for bridge work; \$14,045 for new tools and machinery and \$12,-785 for salaries of supervisors.



beautifully. The bride was attended by Miss Lucile Hauson as bridesmaid. Wynn H. Redman seted as best man.

MOLALLA, Or., Nov. 27.—(Special.)— The Oddfellows and Rebekalis cele-brated Thanksgiving by having a din-ner together on Thanksgiving eve-About 190 members of the orders were present. Ten turkeys were used in the banquet, which was served in the style which has made Thanksgiving dinners Newport, or. Nov. 27.—(Special.)

Newport, or. Nov. 27.—(Special.)

Newport, or. Nov. 27.—(Special.)

Normal of Monmouth, and Mrs. J. H.

Comer, of this place. Otto Willkowski and Mlss Agnes Clifford sang
solos, The address was made by G. J.

Taylor, editor of the Molalla Pioneer.

Jenks-Luper.

ALBANY, Or., Nov. 27.—(Special.)—
The wedding of Howard Benton Jenks
and Miss Eunice Mabel Luper at the
Southern Methodist Church, Tangent,
on Thanksgiving afternoon occupied
the center of interest in that commu-

bers of well-known Tangent families and their marriage was the most prom-inent event on the year's social calen-

following the ceremony the wedding reception was held at the First Methodist Church. The newlyweds boarded a late train for California, where they will spend their boneymoon.

Abendroth-Connell.

An attractive wedding took place in Hillsboro at the home of Mr. and Mrs. Joseph Connell Thursday afternoon, when Miss Grace Elizabeth Connell was married to Albert G. E. Abendroth by Rev. R. E. Myers, of the Methodist Episcopal Church. Miss Hulda M. Guerber was bridesmaid and Harry H. Godshall attended the bridegroom. About 10 guests were present. About 50 guests were present.

Mr. and Mrs. Abendroth are both graduates of the Oregon Agricultural College. They will be at home to their friends after January 1 at 3919 East Porty-second street Southeast.

Funk-Gray.

A simple, pretty wedding took place
Thursday at the home of Mr. and Mrs.
L. L. Gray, of Milwaukle, when their
daughter. Viola Carolyn, became the
bride of Arthur L. Funk. The ceremony
was read in the presence of their immediate family and a few friends. Miss
Margaret Alderman, of Dayton, and
Herbert Fouts, of Oregon City, attended the couple. tended the couple.

A wedding supper was served after the ceremony.

will make their home.

Murphy-Lucey. The wedding of Miss Irene Lacy to Harry B. Murphy took pince Wednes-day night at the home of the bride's mother, Mrs. A. E. Lacy, at 1105 Fran-cis avenue. Miss Lacy is a junior at Reed College this year and Mr. Murphy is connected with the manual training department of the public schools. The

Mrs. Cardwell later notified the last Sunday night. The ring errementy house guests of Mrs. D. B. McBride, or newspaper offices that hereafter she was used and the ceremony was witnessed when making up increased by Miss Anna Mensen and C. C. Tabor Heights, for two weeks. They should be consulted when making up increased by Miss Anna Mensen and C. C. Thursday.

Freeman-Allen. W. A. Freeman and Miss Vivian Allen, both of Portland, were married on Monday at 9 P. M. by Rev. O. C. Wright at his apartments in the Hanthorne

Apartments, Twelfth and Main streets. ANNOUNCEMENTS.

Mrs. Sarah Elizabeth McConnell an-nounces the engagement of her daugh-

BRIDE OF THIS YEAR ENTERTAINS AT THEATER PARTY.







Miss Modeline Groh A Recent Hostess

an event of last month. Mr. and Mrs. Henry Viereck'announce the engagement of their daughter,

Grace Katherine Viereck, to William George Tucker.

SOCIETY PERSONALS.

Harry A. Austin and Myrtle J. Meyer were married at St. James Lutheran parsonage last Saturday afternoon by the Rev. J. Allen Leas. The cermony was witnessed by Mr. and Mrs. Edward J. Elvere.

Mrs. Samuel Weinstein attended the Mendelsohn-Rogers wedding which was held at Seattle, Wash., Thanksgiv- Mrs. M. Young's Friday night dan-

Mr. and Mrs. James Amery announce. Lincoln High School, is convalescing at the marriage of their daughter. Miss St. Vincent's Hospital from an opera-Doris, to William H. Reese, which was

Mr. and Mrs. George P. Alexander have moved to the Alvarado Apart-ments, 739 Everett street, for the Win-

Charles A. Muller, has gone to Ar-rowhead Hot Springs in the San Ber-nardine Mountains of Southern Califor-

Miss Barbara Ritchie and Miss Anna Ritchie, who have been visiting their sister. Mrs. Jessie Honeyman, in La Grande for six weeks, have been the house guests of Mrs. D. B. McBride, of Table, House for the weeks The

Portland people who were among re-cent guests at the Hotel Lankershim, Los Angeles, are J. C. Maxfield, G. W. Fascling and R. C. Reifschneider.

SPECIAL ANNOUNCEMENTS.

Miss Maude Hiff, Studio Tudor Arms Apts., 18th and Couch: Marshall 2662. Special prices on gold and white dia-

was held at Seattle, Wash., Thanksgiving day.

Mrs. M. Young's Friday night dancing class for high school pupils is now forming. Phone East 5119.—Adv.

CONSERVATION OF LAND BY CONGRESS REVIEWED

Period in Control of Public Holdings Described by Professor Earl C. Arnold, of University of Idaho-President Harrison's Proclamation First.

affecting timber land, having for their object the protection of timber areas. So determined was the feeling against the first authority for the creating of the creation of additional reserves that National forests was granted in the act Congress in 1907 passed an act propassed March 3, 1891.

set apart and reserve public lands in string in certain states, which included or any state having such land bearing oregon, Idaho and Washington. It now forests. It is said the first forest resertation and the string in certain states, which included or takes an act of Congress to add to or takes an act of Congress to add to or forests. It is said the first forest reservation ever created was by President Create any new forest in any Fartharrison's proclamation 27 days after the passage of that act. Although President Harrison created the first reservation of that kind, his successor, President Cleveland, although of another political faith, was as ardent in this support of that policy.

Reservations Created Early.

Reservations Created Early.

addition established a policy relating to the kinds of lands which could be in-cluded in National forests.

Conservation Plan Abused.

Withdrawal Is Rapid.

It was provided that land could be placed within a forest reserve for only three purposes: (1) To improve and protect the forest within the reservation. (2) To secure favorable water flow. (5) To furnish a continuous supply of timber for the use and necessities of citizens of the United States. To include lands within reservations for any purpose other than the three mentioned is unwarranted. It is specifically provided that inude more valuable for either mineral or agricultural purposes than for forest purposes than for forest purpose evaluable for either mineral or agricultural purposes than for forest purposes than for forest purposes and there are vital questions of the West for many years to come. cultural purposes than for forest pur-poses shall not be withdrawn for Na-economic one in the West, and without

BY HARL C ARNOLD,
Professor of Law, University of Idaho.
Withdrawn, and by the end of his Administration there was a total of 195,erally designated as the conservetter period. White many acts had vation period. While many acts had been a decrease of but about 10,000,000 been passed by Congress previously acres in the National forest acreage. Feeling Is Determined,

hibiting the creation of any more reser-This act authorized the President to vations, or additions to any then ex-

Reservations Created Early.

Within three years after the passage of the act which authorized the President to create forcest reservations, 17 National forests had been created, aggregating an area of more than 17,500,000 acres. It is said the reason for the withdrawal of such a large area by President Cleveland was to create such a sentiment as would force consgress to provide some definite policy of administration. His purpose later succeeded. However, the legality of setting apart lands for reservations by Presidential proclamation was seriously questioned.

To ratify the forest reservations already created and to provide for their establishment in the future. Congress passed an act on June (1897, which in addition established a policy relating to the force of the subject of debate between those who appose the reservation plan.

Conservation Plan Abused.

The powerful support of President Roosevelt's Administration caused the rapid withdrawal of public lands for forest purposes. By 1902 the reservations had reached \$5,006,009 acres, Four with as much profit as this one.