One year.

Six months

Stage and Mail Schedule.

ARRIVE AT BEND. LEAVE GREED.

For Shaniko via Princeille... For Lakeview and Silver Lake... 6 a. m. daily For Pumalo Tues, Thurs, and Sat. Sam For Lumlaw daily except Suniay. to s. m

FOST OFFICE HOURS-Week days; % a.m. to % p. m. Sundays, from 1r a. m. to 12 m., and half hour after actival of all mails from railross reaching Bend before 8 p. m. TREADBONE OFFICE HOURS-Week days, from

m to 900 p. m. Sundays and holidry

FRIDAY, SEPTEMBER 14, 1906.

GOOD SCHOOL FACILITIES.

With all the difficult work connected with the opening of a new country, with the task of clearing land and building homes, of developing ranches and forcing from the soil a living and something of prof it for later years; with the labor of keeping one's business in a prosperous condition-confronted by the many tasks that beset one in a new land, the people of this community are not so greatly engrossed with the task of supplying the physical man with food, raiment and comforts as to forget the need of their children for an adequate education. They are willing to tax themselves that proper school facilities may be provided. This they did when the school house. Parents living on tender vegetation. ranches move to town in the fall that their children may attend school during the school year, and others residing in outside districts are building schools and hiring teachers, as note the move in the Arnold-Ferguson district to establish a school. This willinguess to furnish educational facilities is a good indication. It shows a proper conception of the worth of educa-

There are many things of more walue to a man than wealth-an upright character and the capacity to appreciate and enjoy life. Few things will exert as great an influsence in producing this result in an individual as will a liberal education. But, considering the question quently do we hear a man remark which is much earlier than common, that he could have made a much greater success financially if he had possessed a better education. He ful wounds. can tell you of the great handicap under which he labored in his daily. struggles to make a living and build a home. How much better it is then for each child to enter manhood and womanhood equipped with a trained and educated minda mind broadened and made more three years, and will hereafter con- it appear so plausible that you will some plant food. It seems strange capable of enjoyment, more capable of lending a helping hand to the Under the old management, this less fortunate.

Bend's new school house, just opened to use last Monday, is ample evidence that her citizens appreciate fully this need of good schools. It means that our youth will not be conduct the livery end of the business in accordance with the past you can go into many of the regions plot that had ceased to grow potation. ing, one of which the scholars, teachers, parents and taxpayers may all feel justly proud.

WORN, haggard and forlorn, Franklin Pierce Mays, ex-state senator and prominent attorney, appears in the federal court at Port-Jand from day to day and hears the clamaging testimony against himself, Willard N. Jones, George Sorenson, et al. revealing beyond a shadow of a doubt their complicity In an attempt to defraud the U. S.

THE BEND BULLETIN government of valuable timber lands. There is practically no doubt that the defendants will be convicted and sentenced to a heavy fine and a term in jail. Rather a bitter ending to the cleverly laid scheme whereby these men aimed to fraudulently acquire title to vast areas of timber land and to make their fortune in one bold stroke. Such men deserve no pity. Educated, capable, holding positions of honor and trust, there is no excuse for their rascality. They are simply rotten at the core-dishonest in their very being. Doesn't it seem atter all that Poor Richard's max im that "Honesty is the best policy" still contains much truth in it

> GOVERNOR CHAMBERLAIN Was elected president, by acclamation, of the National Irrigation Congress in session last week at Boise. Sacramento will be the next place of meeting. It is reported that this session of the congress was the most successful ever held by this organization. These meetings accomplish much good in many ways, not the least of which is the education the country gets through them as to the great good irrigation is loing in the arid West.

THRESHING THE CROP.

Machine Is Doing Good Work in the Tumalo and Squaw Creek Regions.

TUMALO, Sept. 10 .- Mr. Garrett of Hay Creek is in this vicinity with his breshing machine and is cleaning the rops up rapidly. Mr. Garrett has a ood machine and knows how to run it. He has finished threshing on the J. N. B. Serkin ranch and F. E. Dayton's and is low threshing the crop on the Columbia Southern Irrigation Co.'s ranch near aidlaw. He will thresh at Wimer's Wednesday and thence to Mr. Gibson's nd the Squaw Creek country.

Jack Frost made his appearance last district voted to build the new night, changing the color of some of the

Charles Wimer made a trip to Cline Falls Sunday.

John Edwards and Bert Powell passed through this burg Sunday.

William Baker is moving his family to Laidlaw to be handy to school this win-

Alexander Smith and a Mr. Nash of Sisters tarried in Tumalo Sunday.

G. W. Wimer & Sons are erecting a fine granary on their ranch at Tumalo.

W. J. Hightower made a business trip to Bend today.

George B. Pulliam has gone to Sherman county on business.

Dr. Turley and Mr. Melvin passed through here today en route to Bend.

Hello, Bend! They say we are going to have a telephone soon. Let the good work go on.

There are a great many geese lighting on the fields in this vicinity. Several only from that lower standpoint, the were killed and were seen to be in good ability to amass wealth, how fre- condition. They were going south,

> George McCallister had the misfortune to get blows up by giant powder one ay last week, receiving some very pain-

Subscribe for THE BULLETIN and study its irrigation department.

Change in Business Firm.

J. W. Robison has purchased the stock of the Bend Livery & Transfer Co. and has leased the barn for few words. At least I can make ideas it was necessarily deficient in duct that business at the old stand, accept these ideas and will direct that, under our old ideas of soil firm had just recently added substantial improvements in a large The chemical idea of the exhaustion ysis shows the same constituents new storage room for grain and of a soil is not logical in the light present in all of our plants, not in hay and by installing new hay of the experience which all of us the same proportions, but all are scales. The new propietor will have seen, that where fertilizers present and all necessary so far as satisfactory manner and will always of the worn-out soils of our Eastern toes they got 75 bushels of barley.

carry a large stock of all kinds of states and reclaim these soils or grain and hay for sale. It is understood that Messrs. Stroud & Seals sold their interests in the barn for the reason that it was necessary for Mr. Stroud to move to a lower altitude on account of his wife's health, and it is probable that they will move from Bend in the not distant fature.

Read THE BULLETIN:

Read THE BULLETIN:

It gives the news—all of it.

Apply. You can give them all the phosphate, all the potash, all the phosphate, all the phosp Seals sold their interests in the phosphate, all the potash, all the growth of grass is sparse and un-

Problems That Confront The Irrigator.

WHEN THE FROST IS ON THE PUNKIN.

By JAMES WHITCOMB RILEY.

And you hear the kyouck and gobble of the struttin' turkey-cock,

WHEN the frost is on the punkin and the fodder's in the shock,

And the clackin' of the guineys, and the cluckin' o' the hens,

With the risin' sun to greet him from a night of peaceful rest,

When the frost is on the punkin and the fodder's in the shock.

They's something kind of hearty-like about the atmosphere

Of course we miss the flowers and the blassoms on the trees,

And the mumble of the hummin'-birds and buzzin' of the bees;

But the air's so appetizin', and the landscape through the haze

When the frost is on the punkin and the fodder's in the shock.

And the raspin' of the tangled leaves, as golden as the morn;

The stubble in the furries-kind o' lonesome-like, but still

A-preachin' sermons to us of the barns they growed to fill:

The strawstack in the medder, and the reaper in the shed:

The hosses in their stalls below-the clover overhead!-

O, it sets my heart a-clickin' like the tickin' of a clock,

When the frost is on the punkin and the fodder's in the s

working. We must clean out the unless it is permitted to weather be-

soils as we do the stalls in our fore it is applied. One of the most stables. If we do not, the sub- interesting instances going to show

stances given off by plants, or the that toxic substanes are formed

substances that are formed from and that what is poisonous to one

these substances by action of bac- crop is not necessarily poisonous or

teria, will produce acid sub- injurious to another is a series of ex-

substances, will produce what we periments of Laws and Gilbert-

call toxic or poisonous matters, that the growing of potatoes for about

will seriously affect if not kill the 15 years on the same field. At the

That there is toxic material-a into a condition in which it would

poisonous material-in the soil, I not grow potatoes at all. The soil

think I can prove to you in a very was exhausted and under the older

your attention in the cultivation of fertility if the soil became exhaust-

your fields to some of the practical ed for potatoes it should grow any

applications that I shall point out. other crop, because the usual anal-

with any amount of fertilizers you limbs not coming within eight feet

apply. You can give them all the of the ground, under which the

end of this period they got the soil

As he leaves the house, bare-headed, and goes out to feed the stock,

And the rooster's hallylooyer as he tiptoes to the fence;

O it's then's the times a feller is a feelin' at his best

When the summer's over and the coolin' fall is here-

Of a crisp and sunny morning of the early autumn days

Is a picture that no painter has the colorin' to mock-

The husky, rusty rustle of the tossels on the corn,

The Fertility of the Soil.

(Continued from last week.) my fourth heading.

the product of the bacteria accumu- over. lates, they will surely themselves

fertilizers and what do we mean by this procedure. I know of a case where the tree takes

special care, I am sure Mr. Walker would not grudge the fertilizers if they could restore this part of the and that while deep plowing is very without beneficial effects. The desirable, it is unsate, after shallow usual explanation of such an ocposite that the provisions of the act of congress of June 2. Syst, entitled "An act for the sate of timber lands in the states of California, Oregon, Nevada, and washington Territory," as estimated to all the public land states by act of Angust 4, this lawn to the beautiful appearance Now we come to a very interest. plowing has been carried on for currence is that the grass will not ing thing to the farmer. If soils years to run your plow down and have sufficient food for the needs of turn up a great mass of subsoil and that the tree extracts so much water of the possible of turn up a great mass of subsoil and that the tree extracts so much water of the possible of the possib plants and if this supply is con- incorporate it in the soil. In a and plant food that the grass is stantly maintained, as I say, by the great many cases it will take sev- starved. This explanation is not solution of these minerals in the eral years to get the fertility of the logical, for the most marked effect soil, then what is the function of soil back to where it was before is around the trunk of the tree worn-out lands or exhausted soils? in one of the Western states where moisture or plant food. Other trees it is just along this line that the a railroad embankment was thrown on the lawn which are even larger bureau is working and it is just up over a gertleman's lawn. The and cast presumably a more dense along this line that we are getting lawn had flourished for many shade have not affected the grass more interesting results, results years, located as it is in one of our in the same way. On the grounds even now apparently of practical fine grass states. This embank- of the Smithsonian institute of application; and this brings me to ment was built across one end of Washington, D. C I have for years the lawn and remained there for a observed this same phenomenon of Plants must have a healthful number of years. Then the rail- the grass dying under the trees and home to live in. Plants, like ani- road was abandoned or the gentle- find that it is particularly marked mals, throw off excreta, which man secured permission to remove under certain individual trees and must be disposed of. We see this that portion of the embankment that on a sloping surface it extends constantly in making cultures of which covered his lawn. He ex- more markedly in the direction of bacteria. If we let the bacteria grow long enough they kill themselves by their own products—that and it was impossible for him to of the grass after a rainfall it can be grown and sequence of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface of his old lawn to the surface of his old lawn to the surface drainage. Further-the surface of his old lawn to the surface of the surface of his old lawn to the surface of his old lawn to the surface of the surface of the surface of his old lawn to the bacteria. If we let the bacteria posed the surface of his old lawn to the surface drainage. Furtheryou know. We know that when get the grass to grow on it again. be seen that the plant dies from the nitrifying fields we need lime to He has been trying for years to get top downward-that is, the leaves take care of the nitric acid that is grass to grow again on that soil, themselves are killed, while the found by the nutrifying bacteria, which was in all effect a subsoil for roots may still apparently be alive. because if the nitric acid which is a number of years by being covered Our explanation of this is that the plants are poisoned or killed by Not only is this subsoil known the leachings from the tree, which be destroyed. We must put some to be poisonous in many cases, un in effect contain the excreta or thing on the soil to destroy or less it is allowed to lie in small waste material from the bark and change their effluvia so that the quantities exposed to the air, but limbs. This, together with subbacteria can themselves go on muck is often poisonous to the soil stances evidently thrown off by the tree roots, appear to account for and to be the only reasonable explanation of the injurious effects of the tree upon these lawn grasses.

> SOIL. It will be quite impossible and rather undesirable for me to attempt to give you the scientific basis or proof of this idea that there are toxic substances given off by the plants, but perhaps if I can give you a few more illustrations of November, 1966 this kind you can see the point that I am trying to make-that the plant does throw off substances which, unless changed and rendered innocuous or unless actually removed from the soil, endanger the life of the plant.

(To be continued.)

Timber Land, Act June 3, 1578. NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregon.

Taxe 25, 1905.

Notice is hereby given that in compliance with the provisions of the Act of Congress of June 1, 1876, eatitled, "An act for the sale of timber lause in the states of California, Oregon, Nevada, and Washington Territory," as extended to all the public land states by Act of August 4, 1895,

Irving J. Reed

of Bend, county of Crook, state of Oregon, has this day filed in this office his sworn statement. No. 3075, for the porchase of the swij of sec. No. 20, tp 19 8, r 10 c, w m.

And will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before H. C. Klis. U. S. Commissioner, at his office in Bend, Oregon, on the 14th day of November, 1906.

He names as witnesses: Henry W. Rest.

He names as witnesses: Henry W. Read, lames R. Reed and William H. Brock, all of tend, Oregon, John Bloss of Sisters, Oregon. Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before the said 14th day of November, 1906.

MICHAEL, T. NOLAN, Register.

Timber Land, Act June 2, 1876. NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregon,

Notice is hereby given that in compilance with the provisions of the Act of Congress of June 2, 15/5, entitled "An act for the sate of timber lands in the states of California, Oregon, Nevada, and Warhington Territory," as extended 10 all the public land states by act of August 4, 1892. July 31, 1916.

Ella M. Calliban, of Bend, county of Crook, state of Oregon, has this day filed in this office her sworn statement No. 5008, for the purchase of the nwhine if of sec 28, in tp 18 s., r is e, w m.

And will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish her claim to said land before H. C. Ellis, U. a. Commissioner, at his office in Bend, Oregon, on the 14th day of November, 1906.

She names as witnesses: John Ferguson, James Perguson, William J. McGilleray and Galawood T. Callihan, all of Bend, Oregon.

Any and all persons claiming adversely t above-described lands are requested to file the claims in this office on or before said 14th day ovember, 1906 MICHAEL T. NOLAN, Register.

Buy on Gredit! this \$60 Machine for \$25



Timber Land, Act June 2, 1816. NOTICE FOR PUBLICATION.

U. S. Land Office, The Dalles, Oregon

And will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes and to establish his claim to said land believe \$1. C. Rills. U. a. Commissioner at his office in hand, Oregon, on Navember 15, 1986.

He names or witnesser John Steidt, Robert duncy, Theodore Tweet, Robert Wilson, Blea-ce F Lakin, all of Bend, Oregon

Any and all persons claiming adversely the above described lands are requested to file their laims in this office on or before said rith day of MICHARL T. NOLAN Register.

Timber Land, Act June 5, 1879.

NOTICE FOR PUBLICATION.

U. S. Latel Office: The Dalles, Ovegon, July 2, 1996.

Notice is hereby given that in compliance with the previations of the act of Congress of June 2, 1990, critical "An act he the sale of timber lands in the States of California, Oregon, Nasada and Washington Territory," as extended in all the public land states by act of August 4, 1592, Christina Weider

with,

And will after greaf to show that the land
sought is more valuable for its limiter or stone
than for agricultural purposes, and to establish
her claim to sabilized before H. C. Ellia,
U.S. Commissioner, at his effice in fixed. Oregon, on November 1., 1206

She names as witnesses: John Bloss of Sisters, Oregon, Nicholas P. Weider, John O. Fry and Charles Brock, all of Bend, Oregon.

Any and all persons claiming adversely the thore-described lambs are requested to file their laims to this office on or before and rith day of MICHARL T. NOLAN. REGISTER

Timber Land, Act June 2, 1898-

NOTICE FOR PUBLICATION. U. S. Land Office, The Dulles, Ocegon,

The amount of shade cast by the tree does not account for this, for it is as marked on the sunny side as on any other. The amount of Palite Land States by act of August 4, 1840.

water and of mineral matter taken up by the tree does not account for it, for it would be an easy matter to the many of the ma

And will offer proof to show that the land ought is more valuable for its limber or whose has for agricultural purposes, and to certablish for claim to said land before H. C. Kills, U. S. Jonantssmorr, at his office in Bond, Oregon, and Openhor 12, 1906. to supply both artificially to the

the names as witnesses. Lothing H. McCann. Robert J. McCann. Brucat A. Griffin, William H. Mccritt, all of flend, trengon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before and 11th day of Names and 12th day.

MICHAEL T. NOLAN, Register.

Timber Land. Act June 5, 1878. NOTICE FOR PUBLICATION. U. S. Land Office, The Dalles, Oregon July 19, 1906,

Notice is hereby given that in compliance with the provisions of the set of congress of fine 1 193, settled "An set for the sale of limiter funds in the states of California, Oregon, Nevada and Washington Territory," as extended to all the public land states by set of August 4, 1951 Arthur G. My

Arthur G. Edy
of Benet, country of Crisca, state int Onegros, has
this day block in this office hos severa statistics.
No. 1989, for the purchase of the ultimet, see h
nets and netseed of secret, pripe, rise, win.
And will offer presof to above that the
land sengit is more valuable for the timber
or stone thereon than for agricultural purposes,
and to establish his claim to said land before
H. C. Elia, U. S. Computationer, at his office in
Hend, Gregon, on November 12, 1986.

He names as wilnesses. Richard King, Fred Junetl, Laverne Reed, and James R. Reed. Hof Bend, Oregon.

Any and all persons claiming adversely the above described lands are requested to the their claims in this office on or before the said gets day of Newsmber, 1936. MICHARL T. NOAN Register N2-196

Tember Land, Act June 5, 1876.

NOTICE FOR PUBLICATION.

U. B. Land Office, The Dalles, Oregon.

July 31, 1906.

Notice is hereby given that in compliance with the provision of the set of Congress of June 1, 1978, eatilied "An act for the sale of timber lands in the states of California. Origina. Negatic and Scattering Testimon," as extended in all the to the states of California. Girgon, Nevada and Washington Territory," as extended to all the public hand states by act of August 4, 1872. Romeyn D. Wickhaus of Bend, county of Crook, state of Oregon, has this day filed in this office his award statement No. 2024, for the purchase of the sta set, and closely of sec 26, by 12.8, 2.21 e, w.m.

And will offer proof to show that the land sought is more valuable for its timber or show that for agricultural purposes, and to establish his claim to said land before H. C. Rills, U. S. Commissioner, at his office in Bend, thregon, or the 14th day of November, 1906.

He names as witnesses Ernest A Griffe arlyle C. Triplett, Thomas w. Triplett, Pring Coe, all of Bend, Oregon.

Any sad all persons claiming adversely the bove-described lands are requested to file their bains in this office on or before said 14th day of November, 1906.

exember, 1906 MICHAEL T. NOLAN, Register.

Timber Land, Act June 3, 1879.

NOTICE FOR PUBLICATION. is, S. Land Office, The Dalles, Oregon,

July an 1900 Notice is hereby given that in compliance with Notice is hereby given that in compilings with the provisions of the Act of Congress of June 4, 1878, entitled. "An act for the sale of timber tands in the states of California, Oregon, Necada, and Washington Territory," as extended to all the public land states by act of August 4, 1897.

i Samuel A. Blakley

of Bend, county of Crook, state of Oregon, has this day filed in this office his sworn statement. No tota, for the purchase of the object, and selfaway of sec 25, 19 19 8, 7 13 c, w in.

And will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his office to state and to establish to sate and before it C. iffus. I. a Commissioner, at his office to Bend, Oregon, on November 16, 1955.

He names sk witnesses Robert Muncy, Charles Brock, William Brock, John Mendt, all of Bend, Oregon.

Any and all persons claiming adversely the shove described lands are requested to file their claims in this office on or before the said 14th day of November, 1906.

57-19 MICHARL T. NOLAN, Register.

YOU should read THE BULLEVIE