OREGONIAN RAILWAY TIME TABLE.

North. April 1, 1891.	South.
Lv. Newberg, 7:55 a. m	Lv. Portland, 9:40 a. m
Ar. Portland, 9:30 a. m.	Ar. Newberg 12:15 p.m.
Lv. Newberg 12:45 p.m.	Lv. Portland, 4:30 p.m.
Ar. Portland, 3:20 p.m.	Ar. Newberg, 6:05 p.m.

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NEWBERG GRAPHIC.

ISSUED EVERY FRIDAY MORNING.

EDITORS AND PUBLISHERS:
E. H. WOODWARD & ORM. C. EMERY.

FRIDAY, JUNE 5, 1891.

Entered as second class matter at the post office at Newberg, Oregon.

GEARHART Park, on Clatsop beach, has been chosen as the site for the Oregon Chautauqua assembly.

PORTLAND is now a big city, the consolidation of Portland, East Portland and Albina having been effected by Monday's election.

STATE SENATOR E. T. HATCH left last week on the steamer for Alaska, having received the appointment to the position of collector of customs for Sitka. His salary including fees will be $5000. per year.

ONE of the most sensible editorials we have recently noticed in the *Oregonian* appeared Wednesday on the subject of "no politics in municipal government." It is full of good hard horse sense, and Portland people would do well to heed the advice contained therein. Time will tell whether they do it or not.

THE Eugene *Guard* has blossomed out into a daily. It will for perhaps the next thirty days, inflict itself upon the citizens of Eugene, and then, if the sheriff don't interfere, it will probably tone down, gauge its aspirations to its surroundings, and proceed to enlarge its bank account by becoming a good weekly paper, as it has been in the past.

IN THIS age of greed is there anything that some men will not do for money? The latest dodge is that of millionaire Newton, of Iowa, who it is claimed, stuffed the mails passing over his road during April while the weighing of the mails was being done, thus defrauding the government out of $5,000 to $10,000. He has been indicted for the offense.

SAY MR. MCKINLEY will you please come this way with your "bill" and knock the trotters from under old Spreckles so that we can get twenty pounds of granulated sugar for a dollar all the same as our eastern friends? Please remember that gooseberries are on the market now, and with the usual proportion of one berry and two sugars at the present prices breaks us all up.

THE Portland Daily *Examiner* is no more—that is, the name no longer exists. The paper, however is still there, under a new man, but similar management. It is as ever, democratic to the core, and does not appear ashamed to admit such to be the fact when closely cornered. Like all other new papers it is full of promises, advice and patent news. It will be known hereafter as the *Dispatch*.

J. C. LUCKEY, Indian agent at Warm Springs, reports that crickets have made a raid on the gardens and crops on the reservation and have also eaten most of the grass on the range. The army of crickets was from two to three miles wide and from eight to ten miles long. Mr. Luckey says this raid by the crickets will leave the Indians without means of support for the next year and there will be considerable suffering unless they receive aid from the outside.

THE meanest combination on earth is that one that takes advantage of the absolute needs of the people. Such a one is the northwest coffin trust. The people of the northwest ought to boycott this institution clear out of sight. If the newspapers of this section were backed by the right kind of men, they would as guardians of the public good, air this institution of robbery, and sit down on these extortioners in a way to bring them to a sense of their proper relation to humanity, or bring in a class of honest undertakers, so that among common people all the substance of the living would not have to go for the burial of the dead.

"IF YOU want a field of labor, you can find it anywhere." But to be more explicit, you can find it over at the poor farm in Marion county. That the poor unfortunates who on account of sickness or poverty are compelled unwillingly to seek shelter in a poor-house, should be allowed in this christian land to remain there without Bibles and other suitable reading matter, and without any pastoral care, is a shame, and the pitiful appeal by one of those unfortunates, which we give below, ought to arouse every person with a soul who resides in Marion county. This is what he says in a letter to the *Journal:*

"Aside from the *Journal* and *Statesman*, which Mr. McCormick, the superintendent, kindly permits us each day to read, and old "exchanges" which we occasionally get at your office, we have absolutely no reading matter whatever.

"Not even a Bible! And in this connection permit me, in sorrow, to say, that during the six months that I have been here there has not been a single religious service held in the place, nor a single pastoral call. It may be, and perhaps is, an unprofitable field to labor in; but who knows? One is almost forced to believe that when, through sickness, poverty or old age, one is compelled to seek a shelter, a home and an abiding place at the poor farm, that he loses all caste, that he becomes less deserving of sympathy, of an encouraging word or of the least attention, than the most hopless and incorrigible criminal in prison. H. B. F."

A NEW BOAT WANTED.

A first-class passenger service between this point and Portland, by way of the river, has been wanted for a long time, and since the railroad company has discontinued selling round trip tickets, the demand is louder than ever. The greed of the Southern Pacific company is shown so plainly in this change, by which every passenger between this point and Portland is compelled to pay fifty cents more on the round trip, that our people are in a good humor to patronize a boat. The only excuse the company can have for making the change is simply that they are allowed by law to charge the full rate, and they propose to take advantage of it. It is time for our people to take the matter in hand, and by acting with citizens of other points down the river, take steps for putting a good passenger boat on the line. Consider for a moment the amount of travel over the railroad from this point and you will see that the extra charge on rates will amount to a large sum during the year. This matter is worthy the serious consideration of our people. Below we publish a letter received from John Sellwood, of Milwaukee, in regard to this proposition:

MILWAUKEE, OR., May 30, 1891.

THE GRAPHIC, *Newberg, Oregon:*—Being under the full impression that profitable employment could be found for a small boat to run from the landing near Newberg to Portland six times a week and return, I send the following account from a Portland paper of a boat which would be very suitable for the purpose, with the exception that such a boat must be a stern wheeler: "The Iralda is a neat little steamer just added to Portland's fleet of river boats. The is owned by W. B. Newsom, and commenced this week making daily round trips between Kalama and this city, being four hours here and remaining over night at Kalama, thus giving the citizens of that place an opportunity to come here any day to trade. She was built at Johnson & Sorenson's yard in this city, and is a neat little boat. The Iralda is 90 feet long, 13 feet beam and 6 feet depth of hold, is propelled by triple expansion engines, 8, 13 and 20 inches by 12. The propeller is 57 inches in diameter, 12 feet long, and is allowed to carry 160 pounds of steam. The registered tonnage is 3,684, and the boat will average 15 knots per hour. She is intended only for passengers or light freight and packages, and licensed to carry 100 passengers. The house covers the entire deck, except a very small portion of the bow and stern. The machinery is open in the center of the boat in the main saloon, and the ladies cabin is aft of that. Glass windows are all around the sides, and may be lowered at will."

I would have sent this communication earlier, but I wanted to know the cost of the boat, but thus far have failed in doing so. Yours,

JOHN SELLWOOD.

DRAINAGE AND IRRIGATION OF HOME GROUNDS.

"He sendeth the spring into the valleys which run along the hills; He watereth the hills from His chambers and the laughing abundance by which the mountains are crowned in consequence of it. The little hills rejoice on every side. The pastures are clothed with flocks; the valleys are covered over with corn; they shout for joy; they also sing."

So sang one of the sweet singers of Israel. If the text prove the better part of the discourse, it will be what has often happened to preachers before.

All cannot build their houses upon the rocks, nor upon the sand; neither can we always build upon a hill nor upon dry ground, but we can make the ground dry. Defective drainage is the cause of the many ills of rural life. Many diseases find their causes in that source. Of discomforts so caused there is no end. Among reforms needed it is certainly one of the first importance. Very many luxuries are not attainable in country life, but the comfort of dry ground by good drainage requires only thought and labor. Being necessary to health and comfort should be argument enough to induce every rural home owner to secure proper drainage where nature has not already provided it, which nature rarely does, for with the single exception of sand or sandy loam all soils are improved in their healthfulness whereon to locate homes, and also in their fertility, by drainage.

Not being an engineer, I shall not enter into the technicalities of drainage. A few general principles may be taken as established by science and experience. Tile drainage, using round tile with collar joints, is best for garden and lawn and for all fields where long roots may reach the bottom of the drain. The tile should have an opening at the head as well as at the outlet to maintain circulation of air, as one of the great advantages of under drainage is in the circulation of the air through the soil, making it light and warm, and adding to its fertility.

A century ago Thomas Jefferson, the leading horticulturist of his day in this country, spoke of the fact that "Air is the great fertilizing agent."

The depth at which tiling should be laid, and the size of the same, depends upon the location and the quality of the soil. Figures to suit in one case would be misleading in another. The length of the purse will also enter into our calculations. We must sometimes cut our garments in proportion to the cloth; while at other times we may robe the wearer regardless of measurements.

Old Elkington taught our English ancestors how to draw the water off their wet lands a century and a half ago and Johnson quaintly tells the story of the wonderful work. The English being, as they say, very "conservative," but as the Yankee would say, very "plodding," it required many years to introduce the system; yet the lands round about Sherwood Forest, "The Dukeries," are living examples of the efficacy of under-drainage.

Fifty years after Elkington taught the gardners how to keep their places comfortable to the livers and wonderfully productive, Thomas Jefferson made a tour through southern France and along the shores of the Mediterranean Sea, then called "the garden spot of Europe," and extended his tour through the gardens of England, which he pronounced the finest in the world. Something, no doubt, was due to the superior skill and industry of the English over the Continental gardeners, and something to their use of manure, but much was also due to the subdrainage and irrigation of their grounds. The skill some of them displayed and the capital they invested in thus improving their gardens showed that they fully appreciated what Elkington had taught them.

Home grounds and gardens are sometimes so favorably situated that the drainage can be utilized for convenient stock water, for an ice pond, fish pond, and other purposes, with but little additional expense. In some cases there are streams of water that can be turned so as to provide water for irrigation purposes. When streams are not so available, the water can often be obtained by means of hydraulic rams, wind mills and other comparatively inexpensive methods; or the water from the drainage reservoir may be utilized. In such instances, where practicable, a combined system of sub-drainage, and irrigation can be advantageously established.

The same tiling has been used for both purposes, leaving them open in wet weather to secure drainage and closing the outlets in drouths for irrigating the ground. But a better plan is to put in two sets of tiling, the irrigating tile at a foot and a half to two feet and the drainage tiling three or four feet. Experiments made in a number of places have demonstrated that sub-irrigation is preferable to the surface method, especially on rolling lands, or on clay lands that "bake."

Irrigation is not so essential in the eastern states as in the arid plains of the west, yet it is often practicable and profitable. Only a few years ago a Vermont farmer published the result of his experiment in making an irrigating pond by building a stone dam across a ravine, and the increase of crops in the first year more than paid the whole expense, without counting the ice from the pond or the fine outlook he had for fish. Once properly made the expense is but a trifle, and perpetual drainage and irrigation are supplied. Think of the refreshing beauty of a blue grass lawn sub-irrigated, when the browning effects of a drouth are everywhere witnessed, to say nothing of flowers and fruits growing finely, because they have a full supply of air and moisture at their roots.

Tests made in England showed that the yield of grass was increased 30 per cent, by sub-irrigation over that of surface. Before the land was irrigated in either way it was a barren heath, not even affording sheep pasturage, but six tons of hay per acre were realized by drainage and sub-irrigation.

A practical test made by a Texas gardner shows the following: A reservoir 30 feet square and 5 feet deep will hold 40,000 gallons. A 12 to 14 foot wind mill in a favorable location and with a good pump attached will fill it in 10 to 12 hours. That amount of water will cover two acres an inch deep, but in sub-irrigation would suffice for four acres. These facts show that it is feasible in nearly all instances to drain and irrigate home grounds and gardens, if not entire farms, and that the increased beauty, productiveness and healthfulness would more than repay the cost of the work in a very short time.

"We must teach by example" says a New Jersey horticulturist. Let the readers of *The American Garden* who are amply able to put these statements to the test, employ drainage and hydraulic engineers, establish drainage and irrigation systems on their home grounds and gardens and in a few years these examples will have spread and they will not only increase their own pleasure and comfort, but will deserve and secure the credit of being pioneers in a great reform.

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