

OREGONIAN RAILWAY TIME TABLE.
North. April 1, 1901. South.
To Newberg, 7:55 a. m. To Portland, 9:40 a. m.
From Portland, 9:30 a. m. From Newberg, 11:15 a. m.
To Portland, 12:30 p. m. To Portland, 1:30 p. m.
From Portland, 3:30 p. m. From Newberg, 5:05 p. m.
Passenger and Freight Rates to all points
can be obtained from C. R. FRISSELL,
Agent Newberg.

NEWBERG GRAPHIC.
ISSUED EVERY FRIDAY MORNING.
EDITORS AND PUBLISHERS:
E. H. WOODWARD & O. M. C. EMERY.
FRIDAY, MAY 22, 1901.
Entered as second class matter at the post
office at Newberg, Oregon.

PLEASE let up on that New Orleans affair. It is becoming a trifle stale.

AN OVAL mine has been discovered near Heppner. Verily Oregon is a great state in more than one sense.

IT is said that not an editor in Grant county but is under arrest, charged with misdemeanors or crimes varying from libel to highway robbery.

NEWBERG, at Yaquina bay, is making big preparations for the meeting of the State Teachers' Association to be held there during the first week in July.

JUDGING of the immigration to this state by the number who are locating on small tracts in this section, it is safe to say that at the present rate Oregon will have a population of a million ten years hence.

THE Capital Journal charges the Oregonians with flouting its editorials from eastern papers, and claims to have documentary evidence to prove its charges. It doesn't take much ability aside from gall to run a big paper if some one else will furnish the brains.

THE Oregon Improvement Company appears to be getting a little lightened, and are emulating eastern corporations by employing in their mines a batch of six hundred Negroes. The company claims that the Negroes are less apt to cause trouble than white men.

THERE are twenty-eight cities in this country having each a population of more than 100,000, and four hundred and forty-three having each a population exceeding 8,000. Such figures give one some idea of the magnitude of our country and the extent of its population.

PRESIDENT HARRISON and party have arrived safely in Washington, having made the entire trip without a hitch in their program, probably the most successful trip of the kind, distance considered ever made. The president made an even one hundred and forty speeches on the trip.

AFTER a thorough test by Portland experts it has been proven that the Koch lymph is a complete success in cases of genuine tuberculosis. Two patients, after about two months treatment each, have been discharged from St. Vincent's hospital entirely cured. All hail to science!

IT is said that Oregon alone has 400,000,000 feet of merchantable timber. How does this strike the old grannies who are making so much fuss about the timber simply being so nearly exhausted? Come to Oregon if you want to get some sort of an idea of the vastness of the natural resources of the country.

OMNIVOR agricultural associations will need to be a little careful or they will fall into the error of paying bigger premiums for the city man's trotting horse than for the sturdy draft horse of the farmer. There need to be a little difference between the program of a racing association and that of a "pumpkin" show, but there isn't much difference now.

THE city of Milwaukee will hereafter be famous for something besides its beer. A few days ago a public fountain, the largest in the United States, was completed there, and the thirty people of that city who have no other time, money nor inclination to indulge in hop and barley swill, can get a drink of pure cool water, and thank the Humane Society for their blessing.

THE latest Portland boycott is one against Weinhart's beer, by the labor unions of the city. If they would follow up all along the line and boycott every body's beer, and all other liquors, for that matter, their condition would be greatly bettered. Fewer cents for liquor and more sense to exercise in their relations with employers, is what would benefit a good many labor unions, aside from those of Portland.

IT is now said that the portage railroad around the cascade locks, which Oregon people hoped the government would build, will now have to be constructed by the state, it having been decided that the expenditure of government money in this way is not justifiable. However, Oregon is able to do it, and there is little doubt that the work will be done sooner than if the people had to wait upon the slow motions of Uncle Sam.

NOR half the people of Oregon appreciate the advantages they possess over those of other sections of the country. No droughts or insects to ruin crops, no storms or lightning, but everything favorable to the hand of him who enters into partnership with nature in the production of the necessities or luxuries of life. And while this is so here, our eastern friends are contending with hail and cyclones, which bring down hot winds, and are never certain of a crop until it is harvested and sold. Let us be more thankful for the blessings that are ours.

ALL things considered, there is not a paper in Oregon that is exerting a greater influence for good than the Salem Capital—Journal.

THE experiment of artificial production of rain, provided for by the last congress, will be tried next month in western Kansas. Balloons filled with hydrogen and oxygen gas will be sent up and exploded by means of a steel wire connected with an electrical apparatus on the ground. The explosion of dynamite on the ground will also be used to aid in the test. \$9,000 will be thus expended, but there are times when, if by such expenditure rain could be produced, it would save the western farmers many times that amount, and the results of the experiment will be eagerly awaited.

HYBRIDITY IN FRUITS.
A hybrid is a sexual cross between individuals of distinct species, a mongrel, as between the cherry and plum. It is generally considered that the two parents of a hybrid must belong to the same family and genus; but later developments in the sciences seem to point towards an endless limit to hybridity, from forced unions between the species of genera widely distinct.

We have true hybrids between such widely different plants as wheat and rye, raspberry and strawberry, etc., and though these belong to the same families, they are certainly far enough apart, naturally, to show what may be done.

In flowers and plants greater wonders in hybridity have developed than in fruits, simply because the plants are more perfectly under the control of the operator, and from greater inducements and because results were more quickly obtainable. The manipulation of tree fruits in this line is long and tedious because results are obtained. When a hybrid is obtained between two fruits, it may prove barren, producing no seeds, and in that way ending our experiment.

What to expect from a hybrid race, as for instance, between a Chickasaw plum and a common peach, is a problem that most persons well up in horticulture may feel as yet unsolved. But for one, I feel confident that we have had numerous such hybrids in fruit every year for the last twenty years. I know that many will dispute the fact that Hale's Early, Alexander, Amson, June, Garfield and many others of our very early peaches are peach-plum hybrids between the peach and Chickasaw plum; and that the Wild Goose, Blackman and many others are plum-peach hybrids between the same species. Yet one who has closely studied them, and has also studied the result of such sexual crosses between species, can find abundant proof that all of these fruits are true hybrids between these two species.

Before Hale's Early came upon the stage, the earliest known peach ripened August 23rd, when the Hale ripened July 23rd on its advent. The leaves of the Hale show unmistakable Chickasaw plum characteristics and the stone also. Its leaves are nearly free from the parasitic fungus of the peach leaf. Its fruit is exceedingly liable to those peculiar to the plum, especially the one known as rotting of the fruit; and it seemed to be the means by which this dread disease spread to other varieties of peaches which had never rotted before. It was disseminated nearly everywhere as soon as the Hale was introduced, and fruited "peach-rot" prevailed. And several more obscure points could be mentioned, tending to prove it a hybrid.

Next comes the Alexander, so-called peach, which ripened its fruit nearly a month in advance of the Hale. If I were guessing, I would guess that the Alexander and all that family of very early peaches are hybrids between a peach, in all probability Hale's Early and the Wild Goose or some other very early Chickasaw plum, the peach flower that matured the fruit or seed from which the trees grew having been fertilized by pollen from the Wild Goose or other plum. Why? What proofs have we of such hybridity?

First, earliness of ripening, the fruit ripening to a day with the supposed plum parent. Its foliage resembles the Chickasaw plum leaf, and so far as I have observed, escaping entirely the peculiar leaf diseases of the peach. The shell of the seed of all these peaches is lighter in color or than those of any other red peach, not nearly so much corrugated, or nearly smooth; and the seed itself and its outer envelope are more like those of plums.

But the most important point is that the cellular structure of the fruit pulp is very different from that of the peach, and almost exactly like that of the plum; also its ripening processes and decay. In fact, they have the exact characteristics that an expert in hybridity would expect to find in trees known to be true hybrids between these two species. Further, I have long considered the Wild Goose plum a plum hybrid, or originating from a seed grown on a plum tree and fertilized with the pollen of a peach flower, with the proof about the same as given in the foregoing case.

them out, I suppose as the theories of a crank. And all of this thirty years after there were well known hybrids between species of grapes as distinct from each other as the peach from the plum, fuchsias and a thousand other annuals and florists' flowers and plants.

And now, to-day, the question among advanced experimenters in hybridity is not what two forms will hybridize with proper manipulation, but which will not, by forced pollination—D. B. Wine, in *The Farm and Fireside*.

Horticultural Meeting.
The meeting of the horticultural society on last Saturday afternoon was one of much interest to those who were present. Mr. Stratton and Mr. Catts were received into membership. Solomon Haworth, Dr. Mills and J. H. Bowerman were appointed a committee to nominate officers to be elected for the ensuing six months. The following committee was appointed to suggest plans for the necessary preparations for the July meeting of the State society to be held at this place, viz: E. H. Woodward, H. Cooper and J. H. Ross. It was suggested by president Armstrong that the society arrange to make a display of fruits at the Portland Industrial Exposition this fall. The members spoke favorably of proposition and action will no doubt be taken in the matter later on.

Several pests were exhibited by the members among which were the green and brown aphids, pear light dec. General discussion followed, and an hour was very profitably spent in discussing the different causes for certain unfavorable conditions, and the best methods for fighting insects. It was generally conceded that some orchards had been injured the past season by late cultivation causing the sap to flow too late in the season. It was argued that while thorough cultivation was very necessary it was also very important that the time to cultivate should be well considered. Dr. Mills related the experience of his brother this spring who had several hundred dormant buds that were being bothered by cut worms. He plastered them with pitch which effectively prevented any further ravages by the worms, and killed the buds as well—Moral, use a less "sticky" remedy.

On motion it was decided to have an exhibit of strawberries and cherries at the next meeting. A premium of three dollars will be paid for the best showing of strawberries and two dollars for the second best; also the same for cherries. The conditions will be published by the executive committee and officers of the society. The subject of spraying trees was introduced and inasmuch as only a very few owners of orchards were spraying, the following committee was appointed to urge upon the people the necessity for this precaution, not only to protect themselves but the orchards of those who are doing their duty in this respect. Committee: Dr. Mills, M. M. Edwards and Scott Inglis. The committee was also instructed to correspond if necessary with the state board whose duty it is to see that owners of orchards spray their trees according to law. Dr. Mills informed the meeting that Frank Hadley had bought a spraying outfit and was preparing to spray all the orchards he could reach at the proper time. His prices will be reasonable.

Notice.
Notice is hereby given that a petition has been filed with the Common Council of the town of Newberg, Yamhill County, Oregon, for the location of a thirty (30) foot street, described as follows, to wit: Beginning at the northeast corner of lot eight (8) in block B, of Hobson's addition to the town of Newberg, thence running east along the north line of said Hobson's addition, to the southeast corner of the Deskin's Donation Land Claim, being the terminus of said proposed street, being entirely situated in the town of Newberg, Yamhill County, Oregon. Notice is hereby given to all parties interested to appear at the regular meeting of the Common Council of the town aforesaid at the Council room, on the 27th day of May, 1901, at 8 o'clock p. m. of said day and there to show cause, if any they have, why such proposed street should not be granted as prayed for in said petition.

Dated Newberg, Oregon, this 15th day of May, A. D. 1901.
FRANK H. HOWARD,
Recorder for the town of Newberg.

Notice.
Notice is hereby given that a petition has been filed with the Common Council of the town of Newberg, Yamhill County, Oregon, asking for the improvement and grading of Sherman street, in Harley's addition to the town of Newberg, as follows to wit: Commencing at the intersection of said Sherman street with Main street, thence running west until the said Sherman street intersects Marion street, said Sherman street, between said Main and Marion streets to be graded of all streets and neatly trimmed to grade, said improvement being entirely situated in the town of Newberg, Yamhill County, Oregon. Notice is hereby given to all parties interested, to appear at the regular meeting of the Common Council of the town aforesaid, at the Council room on the 1st day of June, 1901, at 8 o'clock p. m. of said day and there to show cause, if any they have, why such improvement of said Sherman street should not be made as prayed for in said petition.

Dated Newberg, Oregon, this 15th day of May, A. D. 1901.
FRANK H. HOWARD,
Recorder for the town of Newberg.

YAMHILL LAND COMP'Y.

INCORPORATED.
O. C. WRIGHT, Secretary, J. M. WRIGHT, President.
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