WILLAMETTE FARMER.

How an English Farm Laborer Lives.

CELESTIAL SPACE .- When astronomers assure us that the diameters of the circles which the planets describe in their perpetual revolutions round the sun, are millions upon millions of miles-how is it possible for the mind to take in an idea of the space or room in which such globes as those of eighty and ninety thousand miles in diameter are running, thirty times more rapidly than a cannon ball, without the slightest interference with others ?

Scientific.

Space-without limit! There is no boundary, no barrier, no precipitous termination, but space forever and ever, and there the intellect leaves the pursuit-the brain of man cannot grasp it.

But there is something more perplexing in the belief that interminable space is filled with millions, aye, with countless organized worlds, beyond all human computation, far excelling our own in grandeur of proportions, physical resources, and beauty, so immensely distant that no telescope can ever survey those on the nearest border of that celesyet, still beyond and beyond, so far that the light they send abroad, at the speed of one hundred and ninety millions of miles in one second, may not reach this earth for a hundred millions of years to come, and a little, and said, 'God only knows,' there again and again are globes infinitely multiplied. Space, then, is a field in which the Almighty display the majesty of His supreme power.

tained from the fact that though the brain is only one-fortieth the weight of the body it receives about one-fifth of all the blood sent by the heart into the system. Brain-workers there-fore require a more liberal supply of food and ricker food, than manual food, and richer food, than manual laborers.

Every iron rail on a north and south railroad, so far as I have been able to examine, is a perfect magnet, the north end attracting the south pole and the south end the north pole of a magnetic needle. So also in a T rail on a railroad the lower flange attracts the south pole, and the up-per flange the north pole of a needle. (Dr. Richard Owen, of Indiana State University.)

The St. Gothard tunnel is now the great engineering project in Europe. The success of the Mt. Cenis tunnel has aroused the fears of Switzerland for June.

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The following account of the average home of a Warwickshire farm laborer is from the pen of a special correspondent of the London News. As it is copied in the North British Agriculturist, it is presumed not to be an overdrawn picture :

"Rising early, I intruded on the to Birmingham about work; the wife, a neat little woman, prematurely old, dressed in a linsey gown, and without a hair or a hook out of its place ; chlorine gas to accomplish this purand five children, ranging from six- pose is urged in a recent report of the teen to four. The eldest boy earns 3s. driving the horses in a plow; none of the others bring anything in. Two go to school at a penny a week, the two youngest toddle about at home. Our breakfast was dry bread. and a fluid in which a lively imagination might recognize a distant flavor of tea. The wife owned to having put but one spoonful in for the seven, and she was not allowed to amend the record on behalf of the frequently fails altogether or only aceighth. Aftea breakfast she and I tial space which they occupy; and formed a committee of ways and means. I was not so fortunate as Mr. Lowe in being able to elucidate a surplus. I could not see my way help me with any returns. She cried ter personal cognizance of the perchildren's boots go to pieces long be- two years, and is good on dry land. fore they have a right to be worn out, how she contrived to keep her SCIENTIFIC MEMORANDA.—Brain-work costs more food than hand-work. According to careful estimates analyses of the excretions, three body more than a whole day of se-vere physical labor. Another evi-dence of the cost of brain-work is ob-tained from the free that though the family shod. I tried the calculation it with water, and then stir in one of making ends meet all manner of bushel of fine salt, and then mix in only addition was the 3s, earned by the eldest boy. And here was the home before me-the wife meek, nent and trim; the children poorly clad, but neither barefoot nor in rags; and only, as I made a point of personally ascertaining, a few shillings of debt.

plot-a few yards square-of garden The French cling to the smallest ground; but that does not grow patch of soil, as to life; it is the best butcher's meat, tea or boots. All the of all securities, not a little advanassistance received, I was assured, was tageous in these times of change, soup once a week. Dinner consisted of " Make sure of the fortune ; the wife potatoes fried in some scraps of bacon may change, but the silver, never." rind that had been left over from the Many of these Liliputian landed half-pound (at 6d per pound) that had proprietors are in a state of indihas aroused the fears of Switzerland and Germany regarding the future of the Asiatic trade. In order, there-fore, to be on an equal footing in this respect with France, it is proposed to plerce the Alps near the St. Gothard Pass. The estimated cost is \$37,000,-000; the tunnel will be twice as long as the Mt. Cenis, and the rocks are much more difficult to manage, but it is thought that with the experi-ence which has been gained in other works, it can be constructed in a works, it can be constructed in a greens and herbs, and a 'tag end' or mitting them to a common cultivafor the Mt. Cenis tunnel.-Sectioner's two of bacon. Potatoes cost 4s 6d tion, sharing alike expenses and EFFECT OF EXTREME COLD ON tary prison the dinner diet used to creased, as a consequence, also. SNOW .- Dr. Kane, the Arctic explo- consist of three pounds of potatoes er, recorded the very striking and and half a pint of milk per man. We suggestive fact that snow, at a tem- had no milk, and among the eight of liament is the largest one in the perature of forty degrees below zero, us were certainly not the rations of a world. The four dials of this clock Fahrenheit, loses much of its anti- couple of prisoners. I have not dined are twenty-two feet in diameter. Every A NEW PLANET .- Prof. James C. which is to consist of bread and thus indicating any neglect in winding Watson, of Ann Arbor, Michigan, boiled potatoes, without the frag- up. The pendulum is fifteen feet long. writes to the Journal of Science that ments of bacon rind, which the chil- the wheels of east iron, the hour bell

DESTRUCTION OF THE GERMS OF DISEASE. - As the result of a sereis of experiments on the destruction of low forms of life of heat, Dr. Grace Cal ver demonstrates that the germs of disease will withstand a temperature of 300 degrees Fahrenheit. Exposure to such a heat as this injures the fibers of all kind of cloth so seriously that they are unfit for further use. It family a little before seven, in time is therefore evident that the mere for breakfast. I made the eighth at agency of heat cannot be depended the little table on the flagged floor, upon for the destruction of the germs There was the father, a bent, care- or corpuseles attached to the clothing worn man, who yesterday had been of persons who have suffered from any contagious disease.

opinion regarding the power of New York Board of Health on the disinfection of clothing and rooms that have been exposed to contamination by small pox. In the report in recommended for the disinfection of clothing and bednidg, and sulphurous acid gas, prepared for burning sulphur, for the disinfection of rooms. The latter substance especially seems to have the power of utterly destroying the germs of small pox, while chlorine complishes the object in an imperfect manner. - Scribner's for May.

MANURE FOR POTATOES .--- An exchange says the following receipt for any paper for one year, to any farmer who is short of manure. It is said to when I asked her, with full and bit- be as good as the best superphosfectly fiendish manner in which cost half so much. It has been tried It says :

> "Take one cask of lime and slack loam or ashes enough, so that it will not become mortar; it will make about five barrels. Put in half a pint in a hill planting. All manures containing potash are particularly suita-ble for the potato. Ashes contain more potash than any other natural fertilizer, and should be freely used and carefully saved.

> FRANCE.-The area of cultivated land in France is 124,000,000 of acres, the number of proprietors being 9,000,000. This subdivision of the land is the consequence of the abo-



IF you wish a thing done, go ; if no

but come and see the full-sized machine perform its work as represented. There is no Dwelling Honse, Church, Semimary, Public Hall, Hotel or Restaurant, to which this ma-chine is not applicable, useful and profitable. Ladles and gentlemen, you are respectfully invi-ted to call and examine the machine for yourselves, for it is impossible in a short advertisement to com-merate at, the good qualities of this truly wonder-ful, yet simple, PAMILY FRIEND. THE OLDEST AND LARGEST INCORPORAT. ed School in Oregon. Classical, Commercial, Normal, and Scientific Courses of Study. For full information, address the President, T. M. Garcu, or C. N. TERRY, Sep. 5, 1871. Scientific Board of Trustees.

ger" Seven claims are secured by letters patent, which places it beyond the reach of a rival.

The subscriber, having purchased the exclusive right for the State of Oregon, is now manufacturin: them for sale, on State Street, in Salem, where a variety of styles and a machine in operation can be seen at any time. JOB CAUR

Opposite Gill, Steel & Co.'s Book Storr Noct1 47. Salem, Orego

J. SHAW A TTORNEYS AT LAW, SALEM, OREGON, Office over Gray's store, corner of State and Liberty streets. May17 1r.

he discovered a new planet on the dren devoured at dinner time." night of April 4th, in the constellation Virgo. The planet shines like a star of the eleventh magnitude.

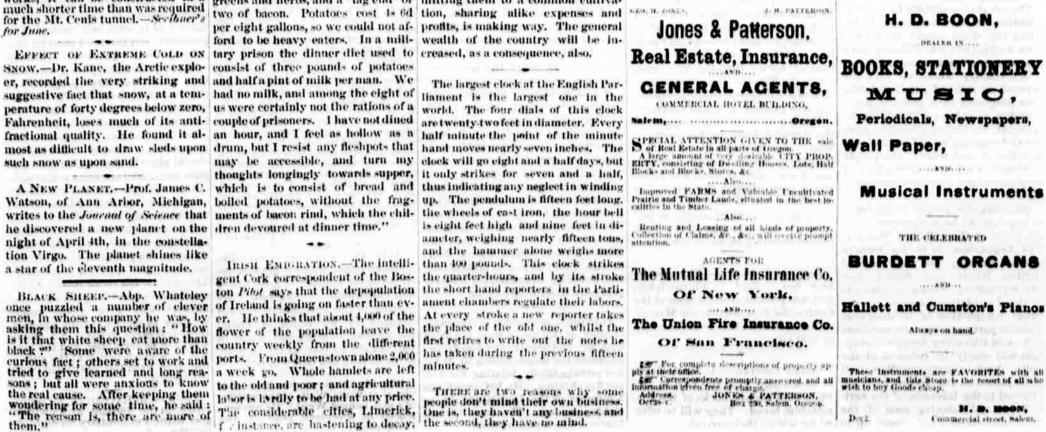
curious fact ; others set to work and tried to give learned and long rea-sons ; but all were anxious to know the cold and poor ; and agricultural the real cause. After keeping them wondering for some time, he said : "The reason is, there are more of them."

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per eight gallons, so we could not af- profits, is making way. The general ford to be heavy eaters. In a mili- wealth of the country will be in-

The largest clock at the English Paris eight feet high and nine feet in diameter, weighing nearly fifteen tons, attention. and the hammer alone weighs more Inish EMIGRATION .- The intelli- than 409 pounds. This clock strikes BLACK SHEEP.—Abp. Whateley once puzzled a number of clever men, in whose company he was, by asking them this question : "How is it that white sheep cat more than black ?" Some were aware of the curious fact : others set to work and

THERE are two reasons why some people don't mind their own business. One is, they haven't any business, and the second, they have no mind.



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