

SCIENTIFIC MISCELLANY.

Records of the New York Meteorological Observatory for the last six years show that New York has enjoyed an average of 2,917 hours of sunshine per annum out of a possible 4,450. The record at Greenwich in 1879 was 977 hours of sunshine out of a possible 4,447, while at New York in the same year there were 3,101 out of a possible 4,449.

Messrs. Wroblewski and Olzowski, two Polish experimenters, have succeeded in obtaining both oxygen and nitrogen in a perfectly liquid form. The liquids are colorless and transparent, resembling carbonic acid. The liquefaction was produced under the combined action of intense cold and great pressure. At a temperature of 212.8 degrees below zero Fahrenheit, a pressure of about 25 atmospheres—or 375 pounds to the square inch—readily liquefied oxygen in glass tubes. At the same temperature nitrogen still retained its gaseous form when a pressure of 150 atmospheres had been reached; but a gradual diminution of the pressure to about 50 atmospheres yielded the liquid which quickly evaporated.

Even the feeble rays of the moon have an influence upon plants. In a paper read to the Paris Academy of Sciences Mons. Musset states that plants very sensitive to light and heat were grown from seeds in pots occupying a very dark place. They were then on three nights exposed to direct moonlight, when the stems bent over toward the moon and followed it in its course.

Solar eruptions or prominences, hitherto seen only at the sun's edge, have been observed by Mons. Tacchini on its very disk. Mons. G. Foussereau has proven that the tempering of glass diminishes the resistance of that substance to electricity, and consequently lessens its efficiency for insulating purposes. On the other hand, annealing tempered glass restores its higher resistance.

The importance to tree growth of an abundance of water is well illustrated by an observation of Mons. Capus. In the botanical garden at Samarcaud, Turkestan, an *Ailanthus glandulosa* grew about eight inches during the first year; thirteen inches in the second, and thirty-five inches in the third. The soil was not irrigated during these three years, but in the fourth year, when irrigation-water was supplied, the growth of the tree was over thirty feet.

Dr. Sutherland and Hanlan have expressed the belief that excessive mental work produces a rapid decay of the teeth. As an explanation of the alleged fact, another writer suggests that the overworked brain steals all the phosphates and leaves none for the teeth, or else that too much study causes the general health to deteriorate. The *Lancet* doubts if excessive mental work can of itself induce serious disease, but thinks it more probable that ill effects result from the worry—which wears upon the system like friction upon the engine—attending such work.

Mons. Angot has been investigating the influence of altitude upon vegetation. He finds that the harvest-time for winter wheat is retarded in France four days, on an average, for every increase of about 350 feet in the height of the land above the level of the sea.

"Can pigs swim?" is a question which certain European savants have been discussing. It is established by several observations reported that these animals sometimes make very successful swimmers.

In an exhaustive work upon the fishes of Cuban waters, Senor Felipe Poey has described 782 distinct varieties. Of these, however, 105 are somewhat doubtful.

An interesting mountain exploration is being attempted in India. Two mountaineers, one an experienced Swiss guide, have left Darjeeling with the purpose of reaching the highest possible point on the great Kinchinjunga, one of the very loftiest peaks of the globe.

Two successful aerial trips have been made by Mons. Pompoiu upon an elongated balloon, and on the second ascent a change in the course of the air-spire was obtained by simply moving a rudder with which I had been provided.

Some experiments noticed by Dr. A. J. Wall indicate that the bite of the American rattlesnake is far less deadly than that of certain snakes found in other parts of the world. In four fatal cases of rattlesnake poisoning in dogs, the animals survived for an average period of about two hours and a half after being bitten; and at least five dogs experimented upon recovered completely.

The dogs bitten by the Indian Cobra all died within an average period of less than thirty-five minutes; and those poisoned by the Australian hoplocephalus lived only one hour and twenty-four minutes.

In Finland, where such phenomena are very rare a severe earthquake shock was felt in April.

When you come to town to do business, never patronize a person who does not advertise in your county paper; because the advertiser gains the largest patronage, by the use of printers ink and by so doing, he can always sell to you cheaper, than the party who waits for the customers to happen along and stumble over his place of business before he learns that the dealer has anything for sale. Always patronize the man who advertises, in your best friend, the county paper.

McCormick's twin binder, the only first class and satisfactory self binder ever in market and will run as easily and with as little care as the simplest mower, can be had at Woodcock & Baldwin's. Why throw away your money experimenting with other pretended machines when you know that the McCormick is a well tried success.

Buffalo Pitts Threshers the best ever made and that never wear out within the life of one man and their Farm Engines at Woodcock & Baldwin's.

A SOAP MINE.
A new and wonderful discovery has been made on the Sonoita, about three miles from the Benson and Gnyamas railroad, which adds a very important factor to this marvelous country. This is no less than a huge bed or deposit of vegetable soap, which has been called, from its composition, Sapoterra. It is a nearly white substance, susceptible of a bright polish. It is free from grit, and in water will dissolve readily without sediment, having detergent qualities identical with the best articles of soap, but it leaves the fabric in a more soft and pliable condition. The articles has numberless uses in the arts, not the least of which is its rare qualities as a lubricant. It enters into the composition of the polish known as sapollo, and into a thousand and one other articles of merchandise. The deposit has been located by J. P. Culver and Richard Starr, and Mr. Culver, from whom the above information was obtained, states that, having compared it with a sample received from New York, it offered \$30 per ton for any quantity, and that it can be mined and placed on the cars for \$4 per ton. If this be the case, there are "millions in it."—*Tucson (A. T.) Citizen.*

Live Stock Statistics.
It appears from statistics which have recently been compiled that the United States possesses in round numbers 38,000,000 cattle, India 30,000,000, and Russia 29,000,000. Russia has 20,000,000 horses, the United States 10,500,000, and Austria 3,500,000. Australia possesses 80,000,000 sheep, the Argentine Republic 68,000,000, and Russia 63,000,000. The United States comes fourth in this list with 36,000,000, but in the matter of swine she leads the world, having 48,000,000. The goat is an important animal in many countries—India is credited with no less than 20,000,000, Africa with 15,000,000, and Mexico with 6,000,000. From the above figures it will be seen that the United States comes first in the list of nations with the two most important articles of fresh food, cattle and hogs; while she is second in horses and fourth in sheep. In regard to the latter two animals, however, she is making rapid strides to a higher position.—*Commercial Reporter.*

"I would like scalloped oysters," she remarked. He answered, meaning to be funny:—"I don't know how to scallop them." "Then bias some," said she.

WOODCOCK & BALDWIN'S
THE BEST
AGRICULTURAL
IMPLEMENTS!
HARDWARE
OF ALL KINDS AT
SAN FRANCISCO PRICES,
BROUGHT BY THEM
Direct from the East!

STOVES
DIRECT FROM
Eastern and St. Louis
FOUNDRIES.
MANUFACTURE OF
TINWARE!
AND PLUMBING A SPECIALTY.
CORVALLIS, OREGON.

The Horse.
We have received a quantity of treatise on the horse, which we propose to give away to every subscriber paying in advance, if requested, whether personally, or by mail; if by mail send 3 cent stamp to prepay postage. This book is well worth the price of the paper \$2.50 to any person having horses. The *American Cultivator* has the following to say of the treatise:—"Kendall's Treatise on the horse is a book of about 90 pages, with paper covers, fully illustrated, and containing an 'Index of and the best treatment of each; a table giving all the principal drugs used for the horse, with the ordinary dose, effects and antidote when a poison, a table with an engraving of the horse's teeth at different ages, with rules for telling the age of the horse; a valuable collection of receipts, and much other valuable information. In preparing copy for this book it was the aim of the author to make it as plain as possible for the non-professional readers, and give them information which is of the greatest importance to horsemen, and yet avoiding all technical terms as much as possible, and also condensing the book as much as possible without eaving out the real essential information in treating each subject. Every farmer or horse-owner should own one of these little books."
Town property and farm land for sale or trade. Inquire at the GAZETTE office.

FOR SALE GOOD BUSINESS.
Undivided interest in a saw mill run by power, a good planer and seven acres of land used in connection with the mill. Power sufficient to run a mill of the size of the best in the West. The mill is situated about 10 miles from Corvallis with an excellent road to and from it. Terms easy. Inquire of M. S. Woodcock at the Gazette office.

FOR SALE. A FARM of 478 acres, being one of the cheapest and best farms in Benton county, situated 7 miles west of Maize, 1 of a mile from a good road, and the best neighborhood in the state with church privileges handy. About 125 acres in cultivation, and over 400 can be cultivated. All under fence, with good two story frame house, large barn and orchard, has running water the year around, and is well suited for stock and dairy purposes. This is one of the cheapest farms in the Willamette Valley. Terms easy. Enquire of M. S. Woodcock at the Gazette office.



"It is not wealth, or fame, or state, But get up a girl that makes me great."

YOU SEE THAT S. A. HEMPHILL is still sitting on the smooth side of poverty drawing out the cords of affliction in behalf of his old customers, where he keeps constantly on hand a full supply of
No. 1 Harness, Saddles, Bridles, COLLARS WHIPS, COMBS, BRUSHES, Robes, Spurs, Sponges, Harness Oil, Blankets, Hobbles, Nose Bags, Cinches, Harness Soap and everything that is kept in a first class harness store.

STEAM POWER!
Chinaman mus go—its cheap to use steam and cut out. Your wood will burn better and last longer if you get
JONNY MOORE'S STEAM SAW
a hold of your wood. Try it and you won't have any other. He is always ready.
I would state to the farmers of Benton and Linn counties that I have a small portable steam saw mill and am ready to make contracts to saw
FUR POLES FOR FENCING
They make a very lasty fence. Commence now and cut your fur poles and pile them in piles or rick them and come and see me. I mean business.
JOHN Wm. MOORE.
I'm now building a
PILE DRIVER
to be used on the Willamette river and within a few days be ready to drive piles anywhere along the Willamette river. Ware house men and saw mill men will do well to
COME AND SEE ME.
I also have a land driver and will take contracts to drive piles anywhere in Polk, Benton, Linn and Lane counties. I use steam power.
John Wm. Moore.

PORTLAND BUSINESS COLLEGE.
(Old "NATIONAL," Established 1866.)
128 Front St.,
Between Washington and Alder,
PORTLAND, OREGON.
An institution designed for the practical business education of both sexes.

Students!
Admitted on any week-day of the year. No vacation at any time, and no examination on entering.
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PEN WORK
Of all kinds executed to order at reasonable rates. Satisfaction guaranteed.
The College Journal, "containing information of the course of study, when to enter, time required, cost of board, etc., and cuts of ornamental penmanship, from the pen of Prof. Wasco, sent free.
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SOCIETIES
A. F. AND A. M. Corvallis Lodge, No. 14, A. F. and A. M. meets on Wednesday evening, on or preceding full moon.
W. C. CHAMBERLAIN, W. M.
Rocky Lodge, No. 17, A. F. and A. M. meets on Wednesday evening after full moon.
JOHN H. LEWIS, W. M.
R. A. M. Ferguson Chapter, No. 5, R. A. M. meets Thursday evening on or preceding full moon.
H. E. HARRIS, H. P.
K. O. P. Valley Lodge, No. 11, K. O. P. meets every Monday evening.
W. P. READY, K. E. S.
I. O. O. F. Barnum Lodge, No. 7, I. O. O. F. meets every Tuesday evening.
T. C. ALEXANDER, N. G.
A. G. U. W. Friendship Lodge, No. 14, A. G. U. W. meets first and third Thursday in each month.
R. J. HAWTHORN, W. M.
W. C. T. U. Regular business meetings first Saturdays in each month, at the Evangelical church, at 2:30 P. M. Prayers meeting every Wednesday at same hour. A cordial invitation is extended to all.
Mrs. NINA WILLIAMS, Pres.

CHURCH DIRECTORY.
BAPTIST CHURCH SERVICES—Preaching every second and fourth Sabbath in each month at the College Chapel, by the Rev. F. P. Davidson. Services begin at 11 A. M., and 6:30 P. M. All are invited.
PRESBYTERIAN CHURCH—Regular services every Sabbath morning and evening. Sunday School at the close of the morning service. Prayer meeting Thursday evening at 7 P. M. Public cordially invited.
Pastor, Rev. J. P. DUNNING.
EVANGELICAL CHURCH—Services regularly every Sabbath—morning and evening, unless otherwise announced. Sunday school at 11 o'clock A. M. Sabbath school at 3 o'clock P. M. on Friday evening at 7 o'clock.
M. E. CHURCH—There will be public services at the M. E. Church every Sabbath at 11 o'clock A. M. and 7 P. M., at the college chapel. Sabbath school at 3 o'clock P. M. on Friday evening at 7 o'clock. Public cordially invited.
Pastor, Rev. J. R. N. BELL.

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\$2.00 per day at home. Samples worth \$3 free. Address: Shinn & Co., Portland, Me.

No Minerals—Purely Vegetable.
NATURE'S REMEDIES THE BEST.
THE OREGON BLOOD PURIFIER
PFUNDER'S KIDNEY & LIVER REGULATOR
CURES

Malaria, Biliousness, Dyspepsia, Headache, Neuralgia, Rheumatism, and all the Diseases arising from the functions of the Stomach being deranged from weakness or excess.

TRY IT! SOLD EVERYWHERE.
C. W. PHILBRICK, GENERAL Contractor and Bridge Builder, Corvallis, Oregon.

Will attend promptly to all work under his charge.
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Whereas young men and women can obtain a thorough business education at a cost proportionate to their Engagements.
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A copy of the COLUMBIA COMMERCIAL COLLEGE JOURNAL containing full information, will be sent by mail on receipt of 10 cents in stamps or application.
D. M. FERRY & CO'S SEED ANNUAL FOR 1883.
This is the most complete and valuable work of the kind ever published. It contains full and accurate descriptions and valuable directions for planting all the most valuable varieties of Potatoes, Fruit Trees, etc. Invaluable to all, especially to Western Farmers. Sent by mail for 25 cents. D. M. FERRY & CO. DETROIT MICH.

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KENDALL'S SPAVIN CURE
THE MOST SUCCESSFUL REMEDY ever discovered, as it is certain in its effects and does not blister. Also excellent for human flesh. READ PROOF BELOW:
SAVED HIM 1,500 DOLLARS.
Aman, N. T., Jan 30, 1883.
Dr. J. Kendall & Co., Gentis: Having used a good deal of your Kendall's Spavin Cure with great success, I thought I would let you know what I had done for me. Five years ago I had a speedy a colt breaking him, he kicked over the cross bar and got fast and tore one of his hind legs all to pieces. I employed the best farriers, but they all said he was spoiled. He had a very large thorough-bred, and I used two bottles of your Kendall's Spavin Cure, and it took the hench entirely off, and he sold afterwards for \$1800 (dollars). I have used it for bone spavins and wind calls, and it has always cured completely and left the leg smooth.
It is a splendid medicine for rheumatism. I have recommended it to a good many, and they all say it does the work. I was in Willington & Kneeland's drug store, in Adams the other day and saw a very fine picture you sent them. I tried to buy it but they would not sell it. I will write to you that you would send me one. I wish you would send me one you all the good I can.
Very respectfully,
E. S. LYMAN.
From the Akron Commercial, Ohio, Nov. 26, 1882.

Readers of the Commercial cannot well forget that a large space has for years been taken up by Kendall's advertisement—especially of a certain kind of horse shoe. It is a good thing that it has been done for many years, and the truth is fully and faithfully given not only that it is a good horse shoe, but that his celebrated Spavin Cure is not only all that is recommended to be, but that the English farrier is not capable of recommending too highly Kendall's Spavin Cure will cure spavins. There are a hundred cases in which this celebrated medicine has cured spavins, but, after all, if any person is cured of a spavin, that is a big mistake. It is the best medicine known as an outward application for the human family. It is good for pains and aches, swellings and lameness, and is just as safely applied to men, women and children as to horses. We know that there are other good liniments, but we believe this spavin cure to be the best. 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