

The Thirteen Towns.

By A. W. FOSS.

The Office of THE THIRTEEN TOWNS is on Stephens Avenue, Opposite Postoffice.

Entered at the Post Office at Fosston as Second Class Mail.

The publication of the East Grand Forks Daily Courier has been suspended.

The Advocate, of Shevlin, went a long distance out of the way last week to malign a reputable Fosston institution with disparaging remarks, entirely unprovoked. Dense ignorance is not a sufficient excuse for such action—it was malicious to all intents and purposes. The Advocate editor would do well to muzzle that runaway pen of his in future.

A simple method of preventing rot and other diseased conditions of winter seed potatoes is in use by the peasants of Thuringia. Those potatoes that rot easily in the cellar in winter are made better able to resist disease conditions and cold by being laid in a sunny place, as far apart from each other as possible. They are turned over morning and night until they become thoroughly green, and are then placed in the cellar for the winter. Potatoes treated in this manner do not rot and can withstand a great amount of cold without freezing. Early potatoes thus treated do not sprout in the cellar, and so retain their full strength. In February, the potatoes are taken from the cellar and put in a partially warmed room until planting time. When planted, they will sprout stronger and quicker than potatoes not so treated, and the crop will be larger and better.

Snow Not a Fertilizer.

There used to be a quite general belief among farmers that snow is the poor man's fertilizer, that with it comes a generous crop, without it a lean harvest. If this were true, then the outlook for the harvest of 1900 would be dark, for there has been no snow to amount to anything over a large area of the harvest regions of the west and northwest. But like many another notion this one must go to the wall, for not only are the snowless seasons followed by good crops, but the very nature of the newer knowledge of these later days, is opposed to the fertilizer theory.

Professor Snyder, of the State Experiment station has paid much attention to soils. He has, in fact, written and not long ago published, a valuable book on the chemistry of soils and fertilizers. He has made exhaustive study in this direction and his opinion has much weight. He says that the absence of snow by no means indicates a poor crop. A large fall of snow may be beneficial in adding ammonia to a soil that is deficient in it, by drawing it from the atmosphere and tendering it to the soil, and some have claimed that this has, in certain instances, added as much as one bushel of wheat per acre. The real value of snow, however, is that it may add to the soil a needed amount of moisture in the spring. This, of course, is a question for the spring conditions to settle, for, if the soil is deep frozen and the snow goes away under the influence of a warm rain, but comparatively little benefit will come to the soil. Professor Snyder estimates that in order to produce an average acre of wheat 350 tons of water are needed. The average amount of rainfall during the growing season should be at least two inches per month, but even with this a good deal is lost by evaporation and the wheat calls upon the soil for its stored-up supply of water.

This reserve supply of water may or may not be influenced by the presence of snow—it certainly is not when the snow, heavy or light in fall, goes away swiftly in the spring. Clover requires at least 400 tons of water per acre for a good crop, potatoes 400, oats 375, and corn can get along on 300, while if you are going to raise an acre of sunflowers you must count on at least 6,000 tons of water. The water reaches the wheat, or other crop, in three forms—bottom water, that which stands in the soil at a general level and fills all the spaces between the soil particles; capillary water, which is held in the capillary spaces between the particles of soil, and hygroscopic water, the moisture which is present in the atmosphere of the soil. Of course, there may be an over-supply of water as well as not enough and the fall of snow might be so heavy, and so liberally sent down into the soil as to do harm rather than good, though this would not be likely to be the case in normal years.

In any event, there does not appear to be any reason for believing that the snow is in any sense a manure or fertilizer or that the absence of it in this, or any other season, presages crop failure.

To Cure a Cold in One Day.

Take Laxative Bromo Quinine Tablets. All druggists refund the money if it fails to cure. 25c. E. W. Crove's signature is on each box.

TO THE DEAF.—A rich lady, cured of her Deafness and Noises in the Head by Dr. Nicholson's Artificial Ear Drums, gave \$10,000 to his Institute, so that deaf people unable to procure the Ear Drums may have them free. Address No. 5221, The Nicholson Institute, 780, Eighth Avenue, New York.

P. M. Mark guarantees every bottle of Chamberlain's Cough Remedy and will fund the money to any one who is not satisfied after using two-thirds of the contents. This is the best remedy in the world for la grippe, coughs, colds, croup and whooping cough and is pleasant to take. It prevents any tendency of a cold to result in pneumonia. (128)

A Hundred Years Ago.

The Herald has been handed a copy of the Ulster Country Gazette, of the date of Jan. 4, 1800, which was published in Kingston, N. Y. 100 years ago. It is a very interesting publication of eight pages, and it contains many references pregnant with interest to the student of history, both American and European. The issue chronicles the funeral of Gen. George Washington, the return of Napoleon Bonaparte from his disastrously successful Egyptian campaign, and a number of happenings of the closing years of the eighteenth century that were so full of history-making incidents. A large portion of the paper is filled with the proceedings of the American congress. Though the paper is dated Jan. 4, some of the news runs as far back as Dec 10, while the European news is nearly all dated in October. This is an interesting contrast to modern newspaper methods, since the telegraph and the cable have been enlisted in the work of news-gathering. A curious thing is that several times in the proceedings of the two houses of congress mention is made of visits made by the houses in a body to the president, John Adams, to talk over matters of public interest. Reference is made in an address by the senate to the president of a rebellion in Pennsylvania that seems to have been quelled by the prompt action of the president and the use of troops. The paper contains the resolutions passed by both houses on the death of Washington, and the replies by President Adams. Also, an original poem "by a young lady" on the same mournful occasion.

The European news is clipped from the London papers, principally, which the editors were "but in possession of by the arrival of the Factor from Fal-mouth." Luther Andres & Co. poetically advertise that "they have this day been opening goods both fresh and gay," and that while wheat, rye, buckwheat, oats, corn, butter, flax, ashes and raw hides will be taken in payment, cash names abound, and the sheriff, who advertises a diversity of sheriff's sales, signs himself "Petter Ten Broeck." John Schoonmaker advertises for sale the one-half of a sawmill, also "a stout, healthy, active negro wench."—Duluth Herald.

Some uses of Water.

A strip of flannel or a soft napkin, folded lengthwise, dipped in hot water and wrung out, and then applied around the neck of a child that has the croup will bring relief in a few minutes.

A linen towel folded several times and dipped in hot water, quickly wrung and applied over the site of toothache or neuralgia, will generally afford prompt relief.

This treatment for colic has been found to work like magic.

Nothing so promptly cuts short a congestion of the lungs, sore throat or rheumatism as hot water when applied early in the case and thoroughly.

Hot water taken freely half an hour before bedtime is an excellent cathartic in the case of constipation, while it has a soothing effect upon the stomach and bowels.

This treatment continued a few months with the addition of a cupful of hot water slowly sipped half an hour before each meal, with proper attention to diet, will cure most cases of dyspepsia.

Ordinary headaches almost always yield to the simultaneous application of hot water to the feet and back of the neck.

I want to let the people who suffer from rheumatism and sciatica know that Chamberlain's Pain Balm relieved me after a number of other medicines and a doctor had failed. It is the best I have ever known of.—J. A. Dodgen, Alpharetta, Ga. Thousands have been cured of rheumatism by this remedy. One application relieved the pain. For sale by P. M. Mark.

To Rent or For Sale.

The building on Stephens Avenue, lately occupied by THE THIRTEEN TOWNS, is a good location. Terms reasonable. For further information apply at this office or of Gilbert Tollefson, Bagley, Minn.

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Notice of State Teachers' Examination.

The program of the second State Examination of teachers in Beltrami county, under Chapter 101, laws of 1899, is as follows:

FIRST DAY, FEBRUARY 2D, 1900.
A. M.—8:00 to 8:15. Spelling.
8:20 to 9:15. Reading.
9:20 to 10:20. Arithmetic.
10:30 to 11:20. Physiology and Hygiene.
11:30 to 12:30. Grammar.
P. M.—2:00 to 3:00. Geography.
3:15 to 4:15. United States History.
4:20 to 5:10. Music—(Optional).
SECOND DAY, FEBRUARY 3D, 1900.
A. M.—8:00 to 9:00. County Superintendent's Professional Test.
9:10 to 10:10. Plane Geometry.
10:20 to 11:20. Natural Philosophy.
11:30 to 12:20. Civil Government.
P. M.—1:30 to 2:00. Drawing—(Optional).
2:00 to 3:00. Elementary Algebra.
3:10 to 4:10. Physical Geography.
4:20 to 5:20. General History.

Penmanship and composition will be marked on the papers in United States History.

At the close of the examination in each subject, and before applicants have left their seats, the examiner will collect all answer papers for the next subject, so that all shall be ready to write at the beginning of the period.

To better accommodate the teachers and spare them the expense of traveling a long distance, examinations will be held as heretofore at Bemidji and Winsor; that at Winsor will be conducted by Miss Francis Wilcox. Teachers whose schools are in session are allowed two days to attend the examination without deduction of pay.

Applicants for third grade county certificates may take this examination.

F. JOHNSON DUNWOODY,
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