

Ploughs and Ploughing.

Professor J. W. Sanborn, of the Missouri State Agricultural college, has issued a bulletin giving the results of experiments made by him, in which he shows that as ploughing is usually done there is a great loss of power, resulting in either inferior work or overtaxing of the team, from the improper adjustment of ploughs with reference to depth and width of cut, improper adjustment of harness, the use of coupler of any form, and the non use of wheel or truck under the end of the beam to regulate the depth of furrow. The tests of draught were all made with the dynamometer previously tested for its correctness and its indications carefully noted so that the results arrived at can be accepted as correct.

Most farm harnesses have an extension of the hip straps with a loop at the end through which the traces pass to hold the latter in place when the team is unhitched. This loop is on about a direct line of the trace when the horses are hitched to a farm wagon. But when taken from the wagon and hitched to the plough the doubletrees are so much lower than when on the wagon as to cause an angle in the trace from where it passes through the supporting loop to that of the doubletree. Such conditions have caused a serious increase of the draught. The least draught is found where the trace extends in a direct line from its attachment at the beam to the centre of draught in the plough when adjusted to its best depth for working.

The use of a coupler of any kind also added to the draught, while the use of a wheel under the end of the beam—now fallen into disuse—lessened materially the draught. Thus, as a result of several tests, with and without truck or wheel, the following averages were reached: Average draught per square inch of furrow turned with wheel on 4.87 pounds; without wheel, 5.53 pounds; per cent. of draught saved by use of wheel 11.1. In the test of couplers, the old and the new style knife and rolling couplers were used with following results: Average draught with coupler on per square inch of furrow turned, 5.77 pounds; with coupler off, 4.99 pounds. Loss by use of coupler in per cent. 15.6 or about the same as the gain by the use of the wheel.

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CONSUMPTION. THE ONLY LINE THAT DOES IT. No High Altitudes, No Snow Blockades.

France's Sinking Shore. Just lately, on the coast of Brittany, one of those geological discoveries has been made which suggest to the mind periods of time making the longest human life appear but a span, and exhibiting processes quite dwarfing the ambitious human achievements.

Patmos Nov. Before the Christian era the name of Patmos only occurs in a few passages of ancient writers, and of its history, if it had one, nothing is known; it was when it became the place of banishment of St. John the Divine, and the scene of his apocalyptic vision, that it once for all attracted the attention of mankind.

Make Lime Water at Home. There is no need whatever of running to the drugist and buying lime water every time it is needed. And, by the way, it is very useful to have in the house in case of sour stomach, etc.

White House Pets. Nellie Arthur had a spotted Indian pony for the apple of her eye. Mrs. Pierce was very fond of the black dog that her husband rode.

Desperate Mother Saves Her Child. "Speaking of serious cases of diphtheria," says Dr. Willis, of Brooklyn, in the New York Sun, "I know of a singular case that occurred in Sixth avenue, New York, only a short time ago."

White House Pets. Mrs. Adams had a great goldfish and one of a blueish tint, sent her by a New England sea captain.

Time to Plant Gardens. Considerable loss comes from neglect of the prompt start of garden crops. The only plants that are in danger of delay is the fear of frost.

Steel Wire Fence. The cheapest and most perfect fence for around farms, school lots, poultry yards, garden plots, etc., is the steel wire fence.

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All Sorts of Paragraphs. A dry subject—An Egyptian manuscript. In the days of manuscript books people learned by rote.

The latest figures show that there are 16,447,900 Sunday school scholars in the world. There are said to be several systems in New York that are worth over \$10,000 a piece.

Every man is born with a mentor. That's his conscience. When he gets older he often gets a tormentor. That's his wife.

Jennie June. A fashionable school in Washington, D. C., is now a part of the curriculum, and the boarders are regulated regularly by a manure and is instructed in the mysteries of ungodly adornment.

The Earth's Supports. In the early groupings of the human mind probably no problem was more perplexing than that of the earth's foundation. One of the most primitive ideas represented the earth as a vast flat island, surrounded by an impenetrable ocean; and this view was subsequently modified by giving the ocean a circular boundary, with endless roots stretching downward beneath the whole.