den, Lady Borden, Miss Borden, Hon-L. P. Brodesz, Madame Brodesz, Wilfrid Campbell, the Misses Campbell, F. Ozz. Lowis, Major and Mr. G. W. Biephens, Andrew Allan, Mrs. Ailan, Dr. J. A. Macdenald, Mrs. Macdenald and Gor-don Macdenald, Then. Feilden, of the London Times; W. H. Greenwood, Mr. Moszar, Toronto; Col. Bani Hughes, of Lindsay; Dr. Frevest and many others.

TO DISSOLVE STANDARD OIL. Washington, D. C., May 15.—1 Standard Oil Co., of New Jersey, with Standard ful Co., of New Jersey, with its nineteen subsidiary componies, was toolsy declared by the superme court of the United States to be a conspiracy and combinations in restraint of trade. It also was held to be monopolizing inter-state commerce in violation of the Sherman anti-trust law. The dissolution of the combination was ordered to take place within air months. Thus ended the tremendous struggle in the part of the government to put down by authority of law a combination which it claimed was a menace. At the same time the court interpreted the Sherman anti-trust law to limit its application to acts of undow restraint of trade. It was on this point that the only discordant note was heard that the only discordant note was heard retraint of trade. It was on this point that the only discordant note was heard in the court. Justice Harlan dissented, claiming that the words, "undue" or unreasonable" and similar words were not in the statute. He declared that the reasoning of the court in arriving at its finding was in effect legislation which belonged in every instance to congress and not to courts.

NOVE SCOTIA LEGISLATURE DISSOLVED

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Halifax, N. S., May 15.—The legislature of Nova Scotia is dissolved and the date of the election has been fixed for Wednesday, June 14. The legislature has run its full five years. The Liberals have held power in provincial affairs in Nova Scotia for twenty-nine years under two premiers, W. S. Fielding and Geo. H. Murray, the latter for fifteen years and the former for fourteen. In the House of Assembly that has now been dissolved there are four Conservatives in the opposition, with one independent Liberal, and in the legislative council, or upper chamber, where the members are appointed for life, there are only two who belong to the Conservative or opposition party. Premier Murray will run for Victoria county, though he has not yet

been nominated. Candidates have been nominated by the Conservatives in all of the eighteen counties except Antigonish and the Libeckis have made nominations is all except two, Victoria and Colchester. The ranks will be closed up in the three counties within a few days.

VETO BILL CARRIED

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London, May 13.—The fight in the House of Commons over the veto hill, to curtail the power of the House of Lordo, ended today. An amendment to reject the whole hill was defeated by 360 to 431, and the measure was carried on its third reading by 360 to 431. The announcement of the figures was received by a tremendous outborts of applause, and several of the ministerialists called out to the opposition, "Now toe the line, and take it like men." It is expected the bill will go to the House of Lordo at an early date. The debate in the House of Lordo today on the second reading of Lord Lansdowne's hill for the reconstruction of the upper chamber indicated that the leader's orders will fail to coerce many of the Lincoint poses into voting for a measure involving their own political extinction. Baron Willoughby de Broke declared that the House of Lordo as now constituted, in the best the country could get, and, if he were going to perish, he would prefer his quietts at the hand of their lordships. Lord Morley of Blackborn, appoissman for the government, insisted that the prospect of the veto bill must precede any settlement or compromise with respect to the upper chamber. He three out the significant suggestion that in any reconstruction of the House of Lords the number would be restricted to 100. This is regarded as foreshadowing the government's purpose when the reform of the Lords comes before it.

WHAT FARMS PRODUCE

WHAT FARMS PRODUCE

Washington, D.C., May 14. — The value
of wealth produced in the farms of the
United States was 88,926,000,000 during
1910, as estimated by the department
of agriculture in a statement just issued.
This is an increase of 8104,009,000 over
1909. Tesas with her 10,000,000 acres of
cottom, wested from Illinois during
1910 the honor of being the first state
of the union in value of principal farm
crops which aggregated 8364,110,000.

Farm Miscellany

IMPROVEMENT IN FARM WATER
In a recent number of "The Farmer"
considerable space is devoted to the subject of "The farm water supply in Minnesota." The subject is treated in a
broad way and the many valuable suggestions are quite applicable to the Canadian West.

broad way and the gostions are quite applicable to the Canadian West.

The writer says: "According to the report of the State Board of Health, the actual proportion of polluted supplies in maral districts may at present he assumed to be about 35 per cent. Other investigations along this line prove this to be a moderate estimate. Professor Frank T. Shutt, thief chemist of experimental farms in Canada, has been analyzing farm water samples for a number of years. In 1996, a year of excessive drought, out of 90 waters analyzed, fix were good and wholesome, \$1\$ were suspicious and probably dangerous, 30 were contaminated and totally condemned, and 11 were saline. In 1999, out of 95 samples, \$6\$ were produced and wholesome, 18 were suspicious and probably dangerous, if were seriously polluted, and 9 were saline. In 1999, out of 96 samples, \$6\$ were pure and wholesome, \$7\$ were suspicious and probably dangerous, \$6\$ were seriously polluted, and 18 were saline. In a letter to The Farmer, Prof. Shutt says: "Our work has shown that the shallow day well in the barnyard or near the back door is the one most to be feared," and in his report of 1998; "The danger of the barnyard and back to the state of the same of the barnyard and back to the same of the barnyard or near the back door is the one most to be feared," and in his report of 1908: "The danger of the barnyard and back door well has been repeatedly pointed out. The water in such wells is always liable to become polluted, if not with actual excrementious matter, at least with its decomposition products, and in the majority of instances there can be no certainty that such have been thoroughly oxidized and rendered harmless;" and again in his report of 1909: "The results of twenty years' investigation have shown unmustakably that it is quite exceptional to find water from such a source free from pollution."

Another reply to The Farmer on this subject from Mr. W. D. Bigelow, acting chief of the Bureau of Chemistry, U. S. Department of Agreeulture, says. "Generally speaking, water drilled wells of considerable depth, which are amply protected from surface contamination, is much to be preferred over that of the ordinary dug well. The two serious disadvantages of dug wells are that they are usually shallow and therefore subject to contamination by surface pollution obtaining entrance into the underground supply, or the well is not sufficiently protected at the surface to prevent surface water gaining entrance from the top."

This, then, is the mass of evidence accumulated against the farm water supply as it too often exists. The ordinary shallow dug well is by far in most general nee in Minnesola, and the figures, as well as the statements of the two government chemists, show that this type is the most susceptible to contamination. The cause is not far to seek. It has been found that bacteria are plentiful only near the surface of the soil; four or five feet down there are but few bacteria in the ground; and soil ten or twelve feet below the surface is perfectly sterile, unless it has within it a crevice or opening so that surface sewage can run down. The great majority of farm dooryards and barnyards are without any or, at least, adequate means of sewage disposal; all liquid refuse from the cesspool, etc., is permitted to permeate the surrounding soil; organic waste matter from the stable and outdoor closet leeches into the soil and is carried in solution or in precipitation to every surrounding point. The surface soil thus becomes filled with disease and poison producing bacteria. Consequently a shallow well in which the water comes in contact with this polluted surface soil, or in which the surface washings can gain entrance, is the well that yields a contaminated water supply.

For these reasons the shallow dug well fails in its purpose. The area of the surface opening, usually with little protection, offers every

This is evident when the periodic cleaning of the well takes place, which occurs only when the putrefaction and pollution have so far advanced as to be evident to the taste or smell.

so far advanced as to be evident to the taste or smell.

It is possible, of course, to so locate and construct a dug well that it will be practically safe; but this necessitates ideal topographical conditions and continued care and attention. The main things are to locate the well on high ground, where the drainage is towards the buildings instead of from them; to construct and maintain a casing of stone, brick, cement or wood that will be absolutely impervious, to the entrance of foreign material from the sides; to hank up the top above the general level and place a covering that will prevent the entrance of undestrable matter from the surface; and to use a pump instead of the old-fashioned bucket and chain. Even then, there is always the possibility of the underground supply being contaminated by percolation from a distance.

The one general type to use is the deep, iron-cased well. Whether it be hored, drilled or driven, if deep enough and if the casing is durable and water-tight, it will be safe. The drilled well and if the casing is durable and watertight, it will be safe. The drilled well
most nearly approaches these conditions.
This well penetrates the lower rock
strata and receives the underground
streams that purify themselves by filtration. There is a possibility that the
water may become polluted from distant
sources, but this possibility is very remote
in country sections. The water as
touched by the well is almost invariably
pure, wholesome and free from bacteria.
The polluted drilled wells discovered in the
investigations of the Minnesota State
Board of Health were in all but the two
cases noted rendered unfit for use by careless construction and protection. If the
casing is water tight and surface water
prevented from gaining entrance into the
top connections of the pipe, it is practically
impossible to contaminate the water
from outside sources. Drilled wells very
frequently have well pits, from 8 to 12
feet deep and 3 to 4 feet in diameter,
which are sunk around the shaft, either
before or after drilling, for the purpose
or protecting parts of the pumping aparatus from frost. If not tightly covered,
these may serve as a prominent factor
in the pollution of a well, serving as catch
basins for polluted water of recent surface
origin. Modern well drillers, however,
usually take all precautions that will
remove such possibilities.

One important point to remember is
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remove such possibilities.

One important point to remember is that the physical condition of water does not always determine its purity. A good water should be free of taste, odor and color; but a water may fulfil these conditions and still be contaminated with bacteria. To be definitely certain of the purity or impurity of a well, a sample should be subjected to a chemical and bacteriological analysis. However, if a small sample of water is placed in a clean bottle, tightly stoppered and kept warm for about three days, its taste, odor and color at the end of that time will practically determine its degree of purity. Bacteria for about three days, its taste, odor and color at the end of that time will practically determine its degree of purity. Bacteria can live for about three days, only, in running water: it is in standing and stagnant water that they flourish and multiply. To show the actual connection between the water supply and disease on the farm, it may be mentioned that, during the investigation of the Minnesota State Board of Health, \$23 of the farms examined showed a record of typhoid fever. Although the source of the disease was not always traceable, yet it is a significant fact that on eighteen of these farms the water supply was polluted.

always traceable, yet it is a significant fact that on eighteen of these farms the water supply was polluted.

The farmers of the Northwest must look to their water supply. Although the data here presented was compiled for Minnesota alone, there is no doubt that similar conditions exist in neighboring northwestern states. The old-fashioned method of digging a well represents the earliest attempts of mankind to provide an artificial water supply. That the process is still in use in many localities is due largely to the fact that the great advantages of drilled wells are not generally known. Fortunately it is in growing disfavor and will soon be a thing of the past. When this time comes, the farmer will have largely done his part in the great movement towards sanitation and in promoting the health, strength and longevity of his specie.



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