## Healthy Homes.

In dealing with the subjeot of the sanitary condition of our country homes, I trust that 1 may be allowed to use not only plain, but for-
cible language, for I feel that the matter is of such vital importance as to require more than an ordinary degree of emphasis. The dweller in towns are wont to quote the healluy lives of those whose lot is cast among the hills and fields and fresh pure air of the country, and to
envy those who, though they may be debarred envy those who, though they may be debarred
from some of the attractions of city life, evjoy from somel health-imparting gifts, fresh air and the nawal water which \& wise Providence has so pure water, which \& wise erovidence has so
freely bestowed upon all who care to enjoy them. Do we deserve this envied reputation them. Do we deserve this envied repertation our country homes so far ahead of the dwellings in densely populated places? 1 fear not. It has been stated upon good medical authority, and published by official reports, that there is originated far more diphtheria and typhoid fever among the isolated farm-houss
on the healthy hillside farms of Vermont and New Hampshire, than there is in any of the large cities of America, in accordance with the proportion of the population ; and furthermore, that the majority of cases of these two most dreaded diseases have originated on the very farms where they have appeared, through the want of proper care and attention to the wells, the privies and the kitchen drains. Is not, then, what is true of the New England States equally true of Canada? Are we any more alive to the terrible dangers that we are allowing to lurk the border? And do we realize the awful responsibility which rests upon us when we neglect the ordinary precautions for preventing the sickness and long suffering, and perhaps death of those who are nearest and dearest farm work if ill-health reigns in the house farm work if ll-health reigns in the house?
Are we not sometimes more successful in the sanitary arrangements even for our anithe sanitary arrangements even for our ani-
mals than for our own homes? Certainly, as al rule, there is less preventable sicknoss amongst them than thereis amongst our famiies, Let us then go literally to the fountain head, and do all that possibly can be done to insure a
liberal supply of at least untainted water. Whenever wells and springs are low, it is a noticoable fact that typhoid fever is on the increase; this would naturally go to show that some source of pollution to the wells simply diluted to a less dangerous degree than when the supply was low. We should not lose sight of the fact that all springs and wells have been but recently rain watered, then so colled sur face water, which, by its own gravitation, fiud its way for greater or less distances through porous soils or fissures in rocks till meeting with some obstruction to its natural flow, it rises to a Inore easy discharge at or near the surfice
Every precantion then should be taken to preven any impurity from finding its way to this wate supply, and where it is possible it is far pre feramie to bring the water supply from a spring
some distance from the house and outbuilding rather than from a well in too close proximity to either. Let us then suppose that such a spring has beon found, and with elevation enough to
take a constant supply of water to the second take a constant supply of water to the second
story of the house. $\Delta$ stone well should be sunk
as loeply as possibe, in the crevies of
mortar has been plaood to prevent the soil from
working in, and for oight feet down from the working in, and for oight feet down irom th
surface the stones should be laid in coment mortar to avoid the ingress of oarth worms, and
carried in the same manner a foot at least above carried in the same manner a foot at least abov ground to provent toads, snakes sugs, etc., hrom ago D ( The whole closed with a board cover sumfloiently haovy to prevent its ever being
liftod off by children. Iron pipes being littod off by children. Iron pires being
libble to loses with rust in from one to
th throe yoars, basolsan logg bored 1tom inohes are
preferabie, unless the soil lis dry and sandy and preferable, culless the soil io dry and sand and
the distance very the distance very great, or the strain over thirt
feet head, in which case rustless iron is the cheapest in the end. The frrst six feet of out flow from the well should have six inches or so upgrade. This prevents sand from entering,
leaves the mouth of the outfow under water, 1eaves the mouth of the outliow under water,
thas preventing any floating substances from getting in, and whenever the well is io oaned out the return of the water down this six feet of
outflow clears it of any sediment which may outiow clears it a any sediment which may
 pipes at least three feet we insure cool water in
summer and l less danger of freazing in winter summer and less danger of freezing in winter
besides preserving the wooden logs better than besides preserving the woofen loge better thas
when nearer the action of the air. These
loga or pipes should enter through the cellar wall Cour feet below the surfaco of the eround, and be
closed with a movable plug to facilitate clearing closed with a movabie plug to facilitate clearing
them of sediment, and from the collar where the firet faucet might be, the piping can safoly be of lead. The next and most important fanceet
of all should be over the kitchen sink and high enough to allow an ordinary pail to stand under it. From here, if the head is sufficient, another Faucet on the upper story will be a convenience Yor bedroom
step upstairs.
$\xrightarrow{\text { step upkstairs. }}$ Takig the roturn waste pipe down again alongide the uplow it should pass out at the cellar wall again, but one foot above where it
entered, in order to prevent the chances of the water siphoning past the faucets. Here it can be taken in logs again to a horse trough in the barnyard, and from there to the cow stable, whence it should waste either into the hous Wherever it is possible I would urge putting in on the upper flat a water-closet and slop sink combined, and if a bath tub were added the were complete. Once the running water is in the house, and the sewer drain made, the extra cost of a water-closet and slop sink combined
and d sink and a funct on dor and a sink and a faccet to draw water in parti
for baths and bedrooms, etc., should be put in for baths and bedrooms, etce, should be put in
in first-class order for, say 865 , and which, at ten per cont., to co cover interest and repairs,
would represent $\$ 6.50$ a yoar. Surely a moderate would represent 86.50 a yoar. Surely a moderate
charge for so great a blessing? a pure and convenient supply of the water wo
 As soon as winter sets in we are apt to heai
more of typhoid fever,
ciphtheria and other
 many cases this is due to the faiot that the
frozen ground rozen ground prevents any further evaporatiou
of bad odors outside, and which now find their Way for long distances through the soil from the cellar vault, or the kitchen, drawn into the louse into the rooms in which we live and leep. Decaying vegetables, too, may add thei
poisonous gases to the rest, and where the cell hoor is boarded over, dead worms, toads, and Cotten wood underneath often form a mass of soon astou which one has no conception of. . 4 . winter, the only means left for the exit of thes dors is urough the house, and if through the
house it must Ko, the safest means left for us is to confiue it in the following manner :-A pipe
to of falvanizad iron four inches in diamete Shoild run from the ceiling of the cellar straight Chilrough the heose and enter the kitchen
 cold, wifl :raw at sil, seasons of the bean seldom

Parchases for a Calgary Ranch. Prominent among the fine stock breeders of
he territories is the firm of R. \& J. A. Turner of Calgary, who inave establiahed a first-class
Clydesdale stud in that district. This seaso they have purchased six exceptionally good colt iready ported and two bred in Ontario. From D. \& 0 Sorby, Guelph, three of the former were purchas ed, ncluding Culzan, a strong and useful colt
rising three that, if we are allowed to judge
will yet make his mark in the show rince he prairio the prairie provinces. Culzean is royaliy bred,
sired by the noted Lord Erskine (1744), his dan eing Jewel, by Prince of Wales. He is, ther ore, own brother to the celebrated prize winne at Glasgow, third at the Royal at Newcastle an at Glasgow, 1888, and first at H. A. S., Melrose 1889. Number two is Barnaby Rudge, sir Barnaby, by the Darnley horse Good Hope, dam Nigtown when fool Barnaby Rudge irst flashy, strongly built colt rising three, and i just the type of a Clyde to breed heavy draf orses for street traftic. Number three, Se sesses the best of limbs and substance and capital action, and is a well-bred son of Charmer (2014) Who was a noted prize-taker, as also was his sire
Bonny Scotland that was sold go to New Zealand. Brooklin Boy is a beautifu bay colt sired by the Lord Erskine horse Tanna hill (4745), his dam being Kate (65), by Pride o Perth (2336). Brooklin Boy won first at the
Toronto Industrial in 1891 and thivd very strong ring at the Spring Stallion Show 1892 blythe Tou (1861) is dark brown, and is a colt that promised well. He is sired by that massive By consulting our advertising columns these

## World's Fair Notes.

Articles intended for exhibition will be ad Atted to the Agricultural Building on and aftor November 1, 1892
All exhibits,
haracter, must be in position on or before April 20, 1893. Vegetables and other perishable pro ucts will be admitted during their season, an found necessary by obtaining a special permit Prom the Chief of the Department.
Dairy products will Dairy products will be received for exhibition nly between the first and tenth of the follow
ing months: June, July, September and ing months:
Cheese, other than that mentioned above Canered for exhibit from the United States an points outside the United Statas and Canada will be subject to such limitations and restric tions as may be decided upon by the Chief of thmade.
Exhibits of wool will be classafied and limited, follows :-Class 1, pure-bred fine wools ; cla 2, pure-bred middle wools; class 3, pure-bred Hayti has appropriated $\$ 25,000$ representation at the Exposition. Fred Douglas has been appointed commissioner to represent that country.
The Suffolk
The Suffolk Horse Society, England, has offer-
d two gold medals of the value $\$ 50$ each, for the best Suffolk horse and mare or filly ex hibited at the World's Fair in Chicago
Canada has been given 68,471 square feet of pace in the various buildings, exclusive of space yet to be granted
The U. S. Treasury Department has decided from foreign ery imported to the Exposition hibit or to be shown in connection with the il ustration of some manufacturing process, shal be admitted free of duty. Any raw materia
imported for use in such process must pay
regular duty howerer regrorted for use in

