Surface drains made ad

carry of the excess of rater

and winter months.

move valuable fertilizing mater cially if well-decomposed ma applied as a top-dressing to made open drains may be du du du in a thorough manner, as far as the drains go. A small part of a wet field, well drained, is better than half-made ditches over a large area. The great mistake in constructing drains is, to partly dig them one season, with the expectation of finish-

ing the work at some future time. Corn is husked with the greatest ease and comfort while in the field, if this work is done before cold weather sets in. There are several devices for the fingers to aid in removing the husks. A very good husking-hook may be made from a piece of strap-iron, with leather hoops for the fingers. A simple wooden-peg is all that some good huskers with. It is important to wash the hands thoroughly after each half day of husking, and use soft and prevent cracking. An ointment made of two ounces of oil of almonds, half an ounce of spermacetti, one drachm of white wax, and one ounce of glycerine, may be prepared by any druggist, and is excellent for hands which are roughened by cold weather and raw winds. If this or a similar ointment is applied to the hands, warmed in at evening, and old kid gloves worn during the night, the hands will be much softened by morning.

Root crops should be gathered before the ground freezes. Mangels are more tender than turnips, and the latter may remain undug until there is danger of their being frozen fast in the soil. The tops make fine fodder for live stock when given with hay and grain.

Fall plowing may be done so long as the weather will permit. Every acre turned in the fall helps forward the work of the busy months of spring. The effect upon clay soil is specially beneficial, making it more porous, and facilitating important chemical changes. Fall plowing is one if the best methods of eradicating cutwerms, wire-worms, and many other insect pests, which pass the winter in the

Notes on Live ! tock.

Horses should be kept out of all hard storms, which are frequent during this month. One of the best cures for a severe cold is a warm stable and perfect rest, with a good run in the yard or pasture on pleasant days. It is too late in the year to permit horses to remain out of doors through the night. Young colts and yearlings need plenty of nutritious food. should be fed with wheat bran. Use the. brush freely on all horses and colts, and keep the skin clean and active.

thous, which are to give milk through the winter, need to be fed with special care at this time. If possible, the flow of milk must not be permitted to decrease. Mangels and sugar beets are excellent, cut in slices and sprinkled with bran. The rule, that good feeding brings good manure, should be kept in mind in a judicious care of farm animals during winter. Good feed in abundance is not enough; it should be given with regularity. The habits of different animals have to be studied, and treated accordingly. Scarcely any two cows or horses have the same appetites. It is important to so mix and e'ange the feed, that sameness may be avoided. A variety of food encourages healthful digestion, and upon this the profits of the owner largely depend.

Sheep will bear more exposure than any o her domestic animal, but eyen they winter poorly without a good shelter. Sheds and yards should now be put in good order, that there may be no delays in getting the flocks into their winter quarters. Eves should now be with young, exceptin when late lambs are desired. Half a p at of corn per day will aid in keeping each ewe in a good condition. All weak strep should be placed by themselves and intened for market. It does not pay to k an second-rate animals.

Figs are most profitable if fattened and sold before mid-winter. A large part of the food is used up in simply maintaining the animal during the coldest winter weather. Well-bred swine will sometimes lose in weight during a severe storm. Give the pigs all the corn, or other feed, they will eat during the fattening period. Keep the pens clean, with an abundance of litter, and supply all needed pure water.

The Smitary Perli of the Farm.

Farmers often dilate upon the pure air a 11 healthy surroundings of the country where they have the good fortune to live. Nature has done much for the country. but few farmers have studied the effect of an improper arrangement of necessary conveniences about buildings.

The well is, perhaps, the most important matter relating to health on the farm. Pure water is as necessary as pure air, and purity in water. It is quite common to find the well, the barnyard, and the privy not far separated from each other. It is a prevalent idea that if the well be on higher ground there is no danger of contaminating the water. It does not drain. It is quite true that the natural for Sunday."

formation of the earth about a well has something to do with the deter

we contact water from a long same from 45 to 55 tance, and the liquid of a barnyard twenty | wools are more and more in demand, our or even thirty or more rods distant may manufacturers stand aghast at the amount find its way into the well. the more carefully guarded from the sources of contamination. Very many wells have no real spring in the bottom, but are supplied by a filtering of water from all directions into them. Such wells, seem to give satisfaction when water is plentiful, but when drought intervenes and the great source of supply, the rainfall, ceases, then the water that percolates into the well is so highly charged with effete matter that it is noticed at once, and condemned as unfit for use. When the rains come again and dilute the offensive matters, the water is then called good again. But it must be some substance to keep the skin seen-that the quality of the water is only comparatively good, and not absolutely good at any time.

> A clayey soil is the greatest safegard against filtration from much of a distance, and what filters through it gets pretty well purified. Clay is a great absorbent of effete nitrogenous matters—the most dangerous matters that get into water. It has the power of holding ammonia, which is given off by decaying matter.

A layer of clay, from one to four feet thick, sometimes overlies sand or gravel and then water that filters through it is generally well purified before it reaches the gravel. But this cannot always be depended upon. The Hon. George Geddes mentions a chemical professor at Syracuse, New York, who, determined to make sure of the best water, bored through twenty feet of clay, and struck a layer of gravel. He now thought himself assured of absolutely pure water. But what was his surprise on finding the water so offensive that the stench from its boiling could not be borne! On inquiry it was found that this layer of clay was very thin some eighty rods distant, and the gravel came near the surface, so that the privies of that part of the city leached into that layer of gravel-hence his vile water.

On an elevated stretch of land, where the wind reaches it from every side, a low products in merchandis of their rivals type of fever (typhoid) sometimes appears, and so puzzles good people as to its cause that they would fain attribute it to a special providence. But it is a special punishment, resulting from drinking bac water. Typhoid fever never comes except as the result of bad water or impure air. It frequently comes from poisoning Much depends upon the care which colts | the well, as we have said, by filtration from receive during the first winter. Oats are the privy or barnyard, or from slops of the excellent for them; if corn is used, it kitchen. The privy should always have a concrete or absolutely water-tight vaulty so arranged that the contents can easily be in the north of Scotland, having one of these taken to the field, where its fertilizing matter will largely overpay the labor required.

Dry, sifted coal ashes or read dust should always be kept at hand, and a small quantity be thrown into the vault every day. This will deodorize the contents and preserve its fertilizing value.

Slops should always be conducted by a tight drain into a vat, half filled with earth. When filled, let it be hauled, earth and all, to the field or manure pile, and all will be saved, and the air kept pure. - National Live Stock Journal. .

Canada's Future.

The era of "booms" will soon set in in Canada, if it has not set in already. Mighty railways like the Pacific lines of America do for a country in a few years or even months what a century of creeking waggons will fail to do. Towns and villages appear as if at fairy bidding. As the road nears completion, the enthusi asm of the workers grows apace. The sight of the Pacific will be a tonic as invigorating as the sight of the sea was to the Ten Thousand. When the three thousand miles of line are finished the progress of the Dominion will have assumed another phase. That Canada has a great future in store no one doubts. The Dominion has its wildernesses, but they are far less frequent than its oases. The severe cold in winter, which is the only drawback to the rich lands of Manitoba, should create a hardy race of men, unless experience contradicts itself. With inexhaustible cereal and mineral wealth, the Canadian North-west is at that happy stage of social development when there is land enough for everybody, when labor is highly paid, and when it is not worth a man's while to be lazy. It is the golden age of a country, about which it cannot make too much while it lasts. But, just as children are impatient to become men, a country is ashamed of its childhood and hastens to reach maturity. The Dominion is anxious to fill a larger place in the eyes of the world, and one may safely prophesy its success. Given a vast and my dudey to send you home. rich country, with an energetic population communicating its energy to every settler who sets foot upon its shores, and a railway traversing the land from one end to another, nothing short of the few have studied all the sources of im- superhuman would seem able to stop the Dominion from a career of prosperity. London Times.

The Colonel: "Great Cæsar! Another hat? You are the most extravagant women in England. Why, I beseem to be understood that the position lieve you have got a different hat for of the well is to be considered from its | every day in the week."-Mrs. Colonel: bottom, and not from its top. A drain | "Why, of course I have! That's just it! draws towards its bottom, and the deeper I have one for every day in the week, a well is the greater the distance it will but none for Sunday. I want a finer one artic without griping or causing houses. All

Fine Wools. Fine wools are in greater mand than e country. Want it is preced in ever before in the history of coming to th, where the thar by year, however, they the consumer with greater consequent dissatismention wi cent. In 1863 the low wa very in 1863 41 per cent; i 873 1883 53 per cent. In such a of burns, dirt, sand, &c., they have to pay

situation, therefore, the well should be for. Is there any remedy? We fear there is none but in the institution of some of tests among bayers, like that in operation in France, where every pound of wool is made to conform to a standard, falling in which the grower feels the 'os, unless it can be shown that it was not his carelessness or dishenesty that put the impure article on tne market. Of course, in the long run, the evil will come back with interest on the grower, as economy will compet the manufacturer to a audon the special lines of in. dustry using the wools, or induce heavier imports to meet his wants. To-day the standard fine-combing wools are Australian, pamphlet, Buffalo. N.Y. The Port Philip shipments lead the world in this line. Sir Samuel Wilson, of Melbourne, seeing the growth and promise of the worsted industries, laid his plans for the production of long combing wools, from both English and American stock, and to day has the satisfaction of being able to place in the market the fleece for which he finds more prompt buyers than there is supply. Sir Samuel has returned from England, having purchased the classic home of Disraell, at Hughenden Manor. Yet he does not forget his sheep husbandry, the writer having had recently a communication from him as to the importation of Vermont merines for his Australian ranches. Thegrowers of Australia are taking great pains with their fine woo!s in breeding, teeding, shearing, and putting on the market. Buyers are more than the product and increasing numbers. It is a great pity that in a line of wools where there is such a demand and less competition our American growers, who have in many sections equal facilities with Australia, do not c refully cater to ambranch of trade in which there will be in future, as in the past twenty years an over increasing and profitable business. No subject can more profiably occupy the time of Messis Garland and Markham, of the Wool Growers' Association than to give attention to this matter, and initiate same action to redeem the failing reputation of our American growers of fine wools, and not only save but largely increase the market for such products. The next great step in woollen and worsted industries among our manufacturers to meet the popular taste and demand, and a'so the abroad, will increase the consumption o these wools. Shall we have them from Oaio. Texas, Montana, and Oregon, or importal them from the now greatly superior and rapidly growing yield of Australia?-Industrial Record.

The Greyhound.

On account of his ansocable disposition the greyhound is so troublesome as to be excluded from many kennels. A gamekeeper animals given into his charge, was for a while tormented by its noise and misconduct, and at last became obliged to turn him out to wander wherever he pleased. Now, there happened to be a pig on the premises which also enjoyed freedom. To the astonishment of everybody, these two formed a fast friendship, so close that they fed together, slept together, and kept constantly in company without the one ever showing the slightest hostility to the other. The dog that had tormerly kept up a perpetual quarrel among his own race now seemed anxious to accommodate himself to the way of his new friend while the pig in his turn seemed equally willing to stand high in the lavor of the

After this state of things had gone on for some time, they came to understand some. thing of the natural gifts of one another. Living on the confines of a moor, where hares and rabbits abound; they soon began to do a little quiet hunting on their own account. The hound being guided by sight more than by scent, found most aifficulty in starting his prey; and here the pig, which appears to be endowed with an excellent scent, came to his assistance. Knowing what was required of him, piggy would trace the hare or rabbit to its lair, and then wait for his companion to do the rest. Thus guided, the hound would sometimes take the prey at one bound; or, if he failed in that, he gave pursuit ; and when the hare or rabbit was captured, returned with it to the pig. which immediately tere it to pieces, to be amicably devoured between them. The keeper, obliged to put a stop to this pount. ing, confined the pig; but the hound showed: his constancy by following his friend to the sty, where he lived with him afterward on the best of terms. Although the hourd could leap over the sty-rails with the great. est ease he never attempted to supply the menage with more hares or rabbies

Modern Grammar.

"Johnnie, what part of speech is adieu?" "A verb, ma'am."

"Aha! Something new, I suppose. Let me hear how you would decline it." "Present, adieu; past, a dude."

"Johnnie, that will do; it will now be

Denver Doings.

Mr. J. A. M Beth, Pacific Express Office, Denver, Colo., was cured by St. Jacobs Oil of an excruciating pain in the neck, and also tooth-sche. One application did the work.

Nine million postal cards, which will weigh about thirty tons, have just been ordered from the factory in Castleton, N. Y. The use of Pills, Salts, Castor Oil &c. and necessary, as a pleasant in Stricture is found in Dr. Carson's Bitters, which act as a Eath

druggists : ell it. 50 cents a Bottle.

ADVICE TO CONSUMPTIVES. On the appearance of the nirst symptoms s of appetite, pallor, general det i ity d by night-sweats sensations, fo

Sold by druggists the world over. For Dr. Pierce's pamblet on Consumption, send two stamps to WORLD'S DISTENSARY MEDICAL

Association, Buffilo, N. Y. Slight shocks of earthquake have been felt both at Malta and Trieste.

CANCERS AND OTHER TUMORS are treated with unusual success by World's Dispensity Medical Association, Buffalo, No. Y. Send stamp for pamphlet.

An avalanche at Asaro Catania, Sicily, buried six employees and killed five others. FIRE PLANTS

successfully are sted by World's Dispensiry Association. Address, with stamp for

Trichinosis is spreading rapidly in Saxony. In Ermsleben alone there are

200 persons prostrated with the disease. FRENCH HORSES. WHAT THE ENGLISH SAY - The British Quarterly Journal of Agriculture says: "The Horses of Normandy are a capital race for hard work and scanty fare. Have never elsewhere seen suca horses at the co'lir. Under the diligence, post carriage, or cumbrous cab jolet, or on beyond description. With their necks cut to the bose they flinch not. They keep their condition when other horses would die of neglect and hard treatment." The superiority of French sta lions for crossing on the common mares of America is established. This fact has caused the development of the two largest importing and breeding estab ishments in the world, M. W. Dunham, having imported..f.om. France nearly 1 400 Percheron Normans to his "Oaklawn Farm" at Wayne, Ill., now having there on hand about 500 pure breds, and 2,000 mares, and 21 imported Percherou stallions on Colorado ranges.

It has been decided to hold the civic celebration of the Semi-Centennial of Toronto during the third week of June

A Three Cornered Weapon. - The triangular shape of the Triangle Dye Package added to their undoubted superiority have won the day and driven all others from the field. 30 colors. 10 cents.

Four shocks of earthquake in quick succession have been felt at Gibraltar. The direction of the movement was north and the duration of the shocks ten to twenty

When you visit or leave New York City, save Baggage Expressage and Carriage Hire, and stop at GRAND UNION HOTEL, opposite Grand Central Depot. 450 elegant rooms titted up at a cost of one million dollars, reduced to \$1 and upwards per day. Europeac plan. Elevator. Restaurant supplied with the best. Horse cars, stages and elevated railroads to all depots. Families can live better for less money at the Grand Union Hotel than at any other first-class hotel in the cit .

Lieut. Viand, author of the report in the Migaro that the French sailors mascaured the natives at Hue after they ceased resistance, has been removed from active service.

They all tell the same story. Mr. W. Thompson, Jeweller, Delhi, suffered for years trom Dyspepsia, got no relief until he used Dr. Carsou's Stomach Bitters. He says "it was just the medicine I neeced It has cured me."

Near Columbia a colored woman left her young babe all day. When she returned it was devoured by ants. They had crawled into the child's cars, eyes, and mouth. It died shortly after.

tatarrh A New Treatment whereby a Permanent Cure is effected in from one to three applications. Particulars and treatise free on receipt of stamp. A. H. Dixon & Son, 305 King-St. West, Toronto, Canada. A hotel in Milton, Arkansas, is kept by William Shakespeare.

From MR. WILLIAM MAGARTH Ecindala, Credit P. O., Jan. 8th, 1883

MY DEAR SUTHERLAND: Some two months since I b came so afflicted with Rheumatism of the neck and right shoulder as to render my light arm nearly powerless. I determined to try your "Rheumatine" and the result is that I am now free from pain, and enjoy the ful use of my arm . My general heal h is also much improved by the use of the medicine. The hrst two bottles relieved me-the third bottle freed me from all pain. WM. MAGRATHE J. N. Sutherland, St. Catharines.

"Mamma, where do the dows get their milk?" asked'Willie, looking up from the foaming pan of milk, which he had been intently regarding. "Where do you get your tears?" was the answer. After thoughtful silence he again broke out. "Mamma, do the cows have to be spank-

" A. P." 149 THE GREAT GERMAN REMEDY RHEUM ARISM, Neuralgia, Sciatica, Lumbago, BACKACHE, HEADACHE, TOOTHACHE, SORE THROAT, QUINSY, SWELLINGS, SPRAINS, 3 Soreness, Cuts, Bruises, FROSTBITES BUBNS, SCALDS, And all other bodily aches. and pains.

4 (1:00 () Set 1) . 2.

Design Distantant in

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CORNS! CORNS! Tender corns, painful of sett corns, bleeding corns, hard corns, con the st eight years I have used almoste medicine recommended for Bilioumes

found nothing equal to Carson's Bitters you suffer try it. Price 50 cents, THE LILY is a perfect gem, equal to an imported Pa

Corset; Its like a glove to the figure; very ish, elegant in appearance, and approve by the most fastidious. Manufactured by THE CROMPTON CORSETO 78 YORK STREET, TORONTO.



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Are all of them without exception among LARGEST AND FASTEST of Ocean Steam They were constructed with special refere to the conveyance of passengers, and Safety, Comfort or Speed, are unexcel They are specially noted for the regularit their rapid passages in all weather, Thest age accommodations are of the highest or the ventilation perfect and every provis has been made for the comfort and protect of the passengers. In addition to the total absolute separation of the single men and men, except on deck, the married companie has been so remodelled and arranged every married couple or family has a little vate room to itself. For particulars apply the company's agents at all towns in Ontari to T. W. JONES, General Agent, 23 Yorkstr Toronto

> BEST, SAFESI, CHEAPEST

GUN! IN THE WORL Double-Barrel, Breech-loading Shot &

lucluding Ten Brass Shells, Tools. and Case, Price \$13.

The Lefaucheux action of this gua is strongest and simplest made. The barrels the same quality as the \$15 Breech-loading S Gun, but not so fine a finish.

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Agent for the Winchester Repeating Armi The only Store in the Dominion where and complete line of every description of l Arms and Sporting Goods is kept. Send for our 96, page Catalogue, contain over 600 illustrations of Firearms. Silverwa Watches, Jewellery, etc.

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cent Black Louis Velveteen is worth & cents a yard. Send for a dress length and see for yourself. All kinds of Dress Goods kept in stock. You can save \$12 pair on good Lace Curtains by sending an order to 35 COLBORNES

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Is the only wholesale man in Canada selling to consumers direct, and oash will be returned if goods are not as re-35 COLBORNES presented.

A. B. FLINT, - TORONT



If you are suffering from

WE MINUTES SELECT REA Bondse, Pithy, and Po Paris despatch says that the pression produced there by osures of the yellow book issue is that war or mediation only dispute between France and It is said to be fashionable this merican heiresses to wed young quality. German barons, it and English noblemen two Fifty five murderers have been d in Logan county, Ky., since of one of them has been hange of them were sentenced to onment, and one of the two wa

The late English hangman's farwood, died the other mon esth being hastened by intemp stated that on the occasion ecution her husband gave h

A new warrant has been iss money and patience. Looks orderly and the Customs Smuggling Act against durable and cheap. Retailed by all design and Bracken, the arrested Hamanufacturers. The TORONTOINDUSTR miters, in which they are chamanufacturers. Seventh and Bracken, the arrested Hamanufacturers. The TORONTOINDUSTR miters, in which they are chamanufacturers. Seventh and Bracken, the arrested Hamanufacturers. The TORONTOINDUSTR miters, in which they are chamanufacturers. The entries of freshmen at t colleges of Cambridge Univer and, this year exceed those ffty-one, the numbers being 7 respectively. The name of Prin of Wales heads the list at Trin The Berlin Museum has pu

\$36,000 Rembrandt's painting phar Accusing Joseph Before The work was formerly in pr Sir Thomas Lawrence, and is most famous of Rembrandt's 1 From Dublin it is reported t

Walters, sentenced to impris complicity in the Crossmag. conspiracy, recently died in 1 Healy, M.P., publicly de-Walters protested to the las Recent advices from Tone the report that the Black Flag

are secretly encouraged and as Chinese authorities. It is sa popular belief in China that preparing for a war of extermin all foreigners. In the Women's Congress Mrs. Wolcott of Massachus sisters that the outdoor wor.

is not so hard as that of the she instanced many women who are doing farm work rat themselves in kitchen. Mr. Judah P. Benjamin cording to the London Time

his likeness engraved; and a scribers are Lord Cairns, L Lord Watson, Mr. Justice Baron Pollock, Sir John de other distinguished persons. A Berlin despatch states t

have been convicted at Cos fire to the synagogue to oh ance. They were sentenced imprisonment. Others imp crime were sentenced to The crime was originally at Christians.

An English country pape following curious instance tion: "Lord Palmerston t his head, a white hat upon but well-polished boots up dark cloud in his hand, his ing stick in his eye, a men ing nothing."

A St. Petersburg desp Journal de St. Petershour the foreign policy of Russi voted to peace. Her re foreign powers are excelled tion is now pending likely quiet which all Governme to maintain.

An item of society in Kansas says that elopeme things of the past in that becoming the rage now. "for neighbors to take th into the next room and sit he can't interrupt the we and to get the mother up new styles-of bonnets."

The latest Nihilist pro extensively circulated. d Czar shall summon the the Russian people, and amnesty, freedom of the speech, and the right to ings as the only means of volution. Pitiless veng ed if the demands are di

The Porte has issue powers protesting again recognition of Prince A reign of Bulgaria. Th protest are the frequen absence from Bulgaria is required by the const reside permanently in t appoint a regent during other acts on the part trench upon the rights key as treaty-suzerain

Lord Rossmore, Gra Orangemen of Monag newspapers calling att ous state of affairs in that henceforth the s Orangemen cannot l Only the utmost effor other leaders prevent storming the hill at Parnellite meeting. allows such disloyal n in Ulster the result perhaps civil war.