elover or alfalfa hay is necessary, be- WINTER FEEDING OF DAIRY proves the flavor with age. When filled.

5.53 per cent. of tankage, 9.45 per ration.

cent. of meat meal, 4.72 per cent. of The choice of concentrate is governvou will always know just where to nually to get full tire mileage. consumed when fed the above meal ra- cotton seed meal. To round out the inarian. Saltpeter in one to four-dram contained 5.3 pigs. This is too small tion supplemented with skim-milk. daily ration the dairy cow should re- doses two or three times daily in water a profit. Only sows that raise big lit-They also indicate that the hogs which ceive the best of clover hay. Poor hay is safer for general use. For influwere fed these mineral feeds required fed to dairy cows only means the adenza combine it with five to seven somewhat less meal to produce a dition of extra expensive concentrates drops of fluid extract of belladonna Now that the corn-cribs are filled, pound of gain in weight, the check lot if high production is locked for.

requiring 2.29 lbs., the tankage lot The average 1,000 pound cow regentian root, two drams of sweet spir-take on their usual slick fall coat; 1.94 lbs., the meat meal lot 1.79 lbs., quires from 12 to 15 gallons of water its of niter in water. This dose for an unless, of course, farmers get busy pound of gain produced.

demonstrated their ability to produce fed at the Experimental Farm, Nappan, during the winter months: A many winnings made at the recent mixture of 300 nameds bran. 200 many winnings made at the recent mixture of 300 pounds bran, 200 baling of the hay and straw by hand. fields as rapidly as it is made, feeding it is to prepare non-poisonous prussic Guelph and Puslinch in Wellington, Hay and Grain Show at the Twenty-pounds crushed eats and barley (equal I made a box so as to hook the cortheast and I made a box so as to hook the cortheast

Canada succeeded, from a field of 91 During the first part of the winter, block under, then repeat until hay is the summer campaign.—George W. suited from two teaspoonfuls of the counties, which are placed under a double grant of the counties, which are placed under a prizes, including the grand champion- pounds per cow (in late winter and made in this way in ten minutes each, ship which went to Major Strange of spring ensilage is given in place of with only one man at press and one Fenn, Alberta, with Marquis variety. roots) and good clover hay at the rate man in mow. I made the box so as to Major Strange, a prominent and suc- of 15 to 17 pounds per cow is fed per have the bales larger than ordinary. I keep busy during the winter months, blind. prize in white field peas. Second prize My Homemade Rope Maker. DOES IT THROUGH GOOD COWS. on which we keep twenty-seven purefor hard wheat went to a Montana

One of the handiest tools I have in

It seems to me that the most pleasbroiler and frver stage than any other are subject to incomplete. grower who had obtained his seed my farm shop is a rope-making manage and and profitable way to increase or twelfth prizes inclusive were awarded homemade one will do just as well and winter months is through the dairy ing the year around, and from these early-hatched chickens will usually recapible turn around \$1 per bird. At a pound to within the anomaly of the contraction of the contract exception only of the sixth and eighth, Take a piece of 2x4 about two feet I have a herd of pure-bred Guern-throughout the year. Every morning and a half, if early enough, price is which Montana claimed. All but two long. Run through flatwise three seys which I expect to make me a proof the prize winning samples, includpieces of five-sixteenth-inch rod, and
fit during the coming months.

barns cleaned, the manure is taken
on each bend a hook at one end and
In the first place, I belong to the
to the fields. I raise all the feed conconsumption of a young flock is not
leng produced below the cost of pro-Marquis variety, the exceptions were a handle at the other. Connect the county cow-testing association, and sumed by the herd.

Ruby and Kitchener. At least the first handles with a strip of board to turn every month the tester comes to my three prize winning samples at the all three at once.

We have two coops of White Leg. In the latter part of June I sold a number of fryers at two pounds at commodity below the cost of production: for if it can be necessary to market any farm

MINERAL MIXTURES AND MEAT Avery of Kelso, Sask., who captured liquid form by heating it slowly in bulky mash unless they have grit to and contain moral and religious less his sons. He species of the patriarchs of amia, the contain moral and contain moral and religious less his sons. He species of the patriarchs of amia, the contain moral and contain moral and religious less his sons. He species of the patriarchs of amia, the contain moral and contain moral and religious less his sons. He species of the patriarchs of amia, the contain moral and contain moral and religious less his sons. MEALS FOR BACON HOGS.

The availability of mineral matter for the proper nutrition of hogs is of vital importance and the normal devital importance and the large kernelled barleys grown and injures its fisvor. Honey must be scratch grain and green food, but the Jacob and Esau and of Joseph and V. 11. The land to the large kernelled barleys are stored in a dry place, as it absorbs

Other sources of mineral matter such as bone meal, meat meal, tank-age, ground limestone, rock phosphate, age, ground limestone, rock phosphate, and made up of succulents, concentrates, and roughage with a plentiful supply inch to draw.

The exact amount of these last that place and the supplied has not been defined with the object of taining some information on this tailer, therefore, five lots of long to an article consumer attent calling in all twenty head were fed on a ration composed of ground barley, shorts, and middlings, each 1 part; and oil meal adary cow is extremely important and without this she camoo. Candy made of honey is against the rusted ring of the summer drinks, honey gives reached and with an along the summer drinks, honey gives reached the summer drinks, honey gives reached and with an along the summer drinks, honey gives reached and will cause the wheel to spin. The value of succulents to the dairy of the consumer drinks, honey gives reached and will cause the spice of sugar in all twenty head were fed on a ration composed of ground oats, it is a dairy cow is extremely important and without this she camoo Candy made of honey is made of all or part honey are and the other four lots each of which was fed a mineral meal in a self-deed ground oats, and mireral meal in a self-deed ground oats, and mireral meal in a self-deed ground oats, and on the summer drinks have become rusted they can be divided the succulents to the dairy of the summer drinks have become rusted they can be divided they then charge of you succulents to the dairy is again that the summer drinks have become rusted they can be quity do the brothers. The king's sanction can be decided file they can be divided to the can divide the can divide the can d as corn silage was added to a hay ra-

fish meal, and 3.51 per cent of meat ed largely by availability and cost. you will always know just where to and bone meal and with the exception The mixture should consist of a reasof the last lot made, .03 to .1 of a onable number of feeds to make it pound greater daily gains per hog more palatable. The mixture may be For fever, tincture of aconite in which he grows.

To tickle his palate, that's all; ago, has already done much damage in such districts as have become heavly lower gains than the check lot. feeds such as oats, barley and wheat three or four hours is effective if pulse These results indicate the per cent. with the addition of oil cake or gluten is full and bounding. As aconite is A sow must raise four pigs to pay of these mineral meals which the hogs meal as well as a small amount of poisonous, it is best given by the veter- her board. The average litter in 1923

the fish meal 1.96 lbs., and the beef per day, and if the cow does not drink adult horse. Give a cow one-third with the usual and unusual methods and bone meal 1.83 lbs. of meal to in the morning when turned out on larger doses.—A. S. Alexander. produce a pound of gain, while the account of the weather being cold or milk consumed was 5.38 pounds for stormy, she should be given the opthe check lot and an average of 4.88 pertunity of obtaining water again pounds for the mineral-fed lots per later in the day. Nor will the daily ration be complete without its quota BAILS HAY WITH HOME-MADE of salt—the average cow requires CANADA GROWS GOOD SEED. from % to 1 ounce per day to thrive

Canadian seed growers have again properly. The following is the ration winter months is preparing the crops preparations. These include keeping Poisonousness is an inherent quality Whithy East and West in Ontario; Chicago.

In the class of hard red spring wheat, open to all of North America, adding 2½ pounds for maintenance. Canada succeeded from a field of at During the first part of the winter.

Canada succeeded from a field of at During the first part of the winter.

Repeating his victory of 1922, Mr. hook to each of the three hooks on the buying the balance. Under this system

Biglands of Lacombe, Alberta, won machine; the larger the number the a cow which does not show a profit chickens, including green feed. Each flocks. Biglands of Lacombe, Alberta, won machine; the larger the number the a cow which does not show a profit chickens, including green feed. Each nocks.

In the notehed board on the strands near the chickens, from which our laying stock for the Thanksgiving and Christmas astringent lotion by adding a teaagainst all North America. In the notehed beard on the strands near the regional contest 23 out of the 35 single hook to keep the strands on a clean, warm stable on a is selected. We get \$1 for the yearling holidays, when the price is even better spoonful of sait to half a cup of buttern it is on early-hatched spring than the price is even better than it is on early-hatched spring than the price is even better than it is on early-hatched spring than the price is even better than it is on early-hatched spring than the price is even better th

illy all honey pr

feeds, among other reasons, and such a cannot be too strongly advocated for winter feeding and when pasture grass, but there is no reason why carrons are not available. Milk by-profair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the dairy herd while on grass, but there is no reason why fair profits cannot be made from the herd during the winter months. This, however, cannot be done by feeding a solute of soda should be u i, about u for use is liable to damage the tires because quently invaded and spoiled their culis liable to damage the tires because quently invaded and spoiled their culis liable to damage the tires because quently invaded and spoiled their culis liable to damage the tires because quently invaded and spoiled their culis liable to damage the tires because quently invaded and spoiled their culis father and brothers in the best of the land, for their purpose, even of the castern border land who free during the visit is liable to damage the tires because of the caste

your stores. Then put all of one kind dry well before putting on the tire.

This should be done at least once an
Why Wood Alcohol is Fatal. find what you want.

Canada granulates soon after extract, gravel has not been saved for that ing but this does not affect its quality purpose it pays to buy the commercial but makes it easier to handle. Granu grit. Hens cannot obtain the proper lated honey can be brought back to its nourishment from the hard grain and The stories of the patriarchs of amia, the death of his biddenic from the hard grain and the mile form the historical interest wife. Rechest, and the mile

Rather than trusting to your memshare. After this operation the rim been. He looks back to his sin against same for the description of a cherished son the memory his hard years of service in Mesonot of a happy boyhood. During the first period of 60 days tion and decrease of 8 per cent. when on the above ration the hogs consumed the succulent was removed from the succulent was removed from the deep to should be given at least two coats of his brother Esau, his flight from home, given to a cherished good rim paint, allowing each coat to his hard years of service in Mesopot- of a happy boyhood.

of rat extermination.

Dollars From Winter Days

PRESS.

International Hay and Grain Show, The next step is to select a nost in their feed, showing me the ones which twenty-five in each coop. These coops about 85 cents each. I have figured don; for if it can be stored and held

HAS A VARIETY OF WINTER

fourth Annual International Live parts by weight), 100 pounds oil-cake ners together, stand it on end, tramp housed fall pigs, saving the tools by their susceptibility to wood alcohol. York The plants under quarantine includes and the standard part of the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated make to comfortably actual individuals vary considerably in successful to the separated makes to the separated make to comfortably actual individuals a Stock Exposition recently held at and 100 pounds cotton seed meal fed full, place chain around box and timprotection from weather, and through some die or become blind from am. clude corn fodder, corn stalks, broom

pay expenses, and make a little in-

International Hay and Grain Show, The next step is to select a nost in their feed, showing me the ones which twenty-five in each coop. These coops and including its inception in a convenient position and fasten a are the most profitable, also prepares are cleaned every morning. The chick-carefully, and find that a two-pound the world will be glad to pay that cost a formula for a balanced ration, using ens are well cared for and they return chicken may be grown very cheaply. some day.—Frank O. Lower Charles a some day. Run several binder twines from this the feeds I have on hand first, and around \$100 per month for the year. The result should be about 75 per cent.

The Sunday School L JANUARY 13

when housed for winter the grit supad in the large so for the Long Sojourn in Egypt, Gen. Ch. 37-50. Test-The Lord shall preserve the form all the shall preserve thy soul. Pt. 121: 7.

The lack of an adequate calcium or phosphorus supply is not immediately apparent, but after a more or less second, sixth and tenth for alsike second, sixth and tenth for alsike second, sixth and tenth for alsike second, fourth and fifth for be manifested by a general debility sweet clover seed; fourth and sixth which it is gathered and also because this followed by decreased production.

Of all classes of livestock hogs suffered more frequently because of their intention for alsike; eight, and 11th and 13th prizes for the more frequently because of their intention for the patriarens and seemed lacking in appetite and vigor. The ground was frozen and covered. In the former Pharach gives the invision, so we could not obtain tation; here Joseph informs him that of its high food value, it being a concentrated and early assimilated heat and energy producing food.

The because of livestock hogs suffered the patriarens and eighth places for red clover seed; larly in every home both on account seemed lacking in appetite and vigor. The ground was frozen and covered. In the former Pharach gives the invision, here Joseph informs him that of its high food value, it being a concentrated and early assimilated heat and energy producing food.

The beautiful of its sweetness which is delicately flavored according to the source from which it is gathered and also because of the guiding and introduces five of his brothers to the king. Goshen; was probably that are graded largely by their callings in the line of the patriarens and eight vigor. The ground was frozen and covered. In the former Pharach gives the invision, with snow, so we could not obtain tation; here Joseph informs him that the production. The production between the two narratives. Paalm 105: 1-23. This weiter of with snow, so we could not obtain tation; here Joseph informs him that the production of the patriarens and eight vigor. The production of the patriarens and excording to the source from with snow, so we could not obtain tation; here Joseph informs him the p

without being impaired in flavor or free from rust, being careful to see some distant shrine. Few and evil, earthly honor Joseph could render to that is, full of trouble, have his days his father could be adequate commented.

He looks back to his sin against sation for the deep affection that had share. After this operation the rim been. He looks back to his sin against setion for the deep affection that had

Old Father Hubbard went to his cup-

Alas! It was wood alcohol.

with importance and the large kernelled barleys grown and for such in the development of frame and also in the functioning of the vital processes is strikingly apparent when such is lacking, more particularly with young growing pigs and brood sows.

Only three exhibits from Canada to ferment and decompose. If stored under suitable conditions, well ripened and brood sows.

The lack of an adequate calcium or phosphorus supply is not immediately apparent, but after a more or less second, sixth and tenth for alsite of its sweetness which is delicately

The ground was frozen and covered in a dry place, as it absorbs stored in a dry place, as it absorbs stored in a dry place, as it absorbs stored in a dry place, as it absorbs owner had not been able to go to town his brothers are reckoned among the pare Enod. 1: 11 and 12: 12. The land of for commercial grit for several weeks world's great classics. Ch. 47: 1. Joseph came and the hopper had been empty. The birds were on a board floor covered had not been able to go to town his brothers are reckoned among the pare Enod. 1: 11 and 12: 12. The land of for commercial grit for several weeks world's great classics. Ch. 47: 1. Joseph came and the hopper had been empty. The birds were on a board floor covered had not been able to go to town his brothers are reckoned among the pare Enod. 1: 11 and 12: 12. The land of for commercial grit for several weeks world's great classics. Ch. 47: 1. Joseph came and the hopper had been empty. The birds were on a board floor covered had the hopper had been empty. The birds were on a board floor covered had not been able to go to town his brothers are reckoned among the pare Enod. 1: 11 and 12: 12. The land of the hopper had been empty. The birds were on a board floor covered had the hopper had been empty. The birds were on a board floor covered had the hopper had been empty. The birds were on a board floor covered had the hopper had been empty. The birds were on a board floor covered had the hopper had been empty. The birds were on a boar

these roughages being a fruitful Much attention was attracted by the source from which to draw sufficient exhibit put on by the Provincial Design its uses in the home are practically mineral constituents to maintain the partment of Agriculture of Alberta in about five minutes the fug was are lew in calcium and unless this concreditable ears of perfectly matured honey is as a spread upon toast or craving for grit that emists when hems are described in the manufacture of thought, they were starved for grit. Suez and the Salt Lakes." North and man least likely to be hired in the manufacture of thought, they were starved for grit. Suez and the Salt Lakes." North and man least likely to be hired in the manufacture of thought, they were starved for grit. Suez and the Salt Lakes." North and man least likely to be hired in the manufacture of the country is who cannot be specific as to the one of the country is about five minutes the jug was barren desert. It was in this region thing he can do with more shepherds, especially since it was an occupation his own the surfacture of the country is who cannot be specific as to the one of the country is who cannot be specific as to the one of the country is about five minutes the jug was barren desert. It was in this region thing he can do with more shepherds. The example proves the strong that the battle of Tel-el-Kebir was do with more shepherds.

V. 3. Thy servants are shepherds.

V. 3. Thy servants are shepherds. stituent is supplied from smother corn. It was a decided revelation to source such a ration may be found the many Americans who have long unsatisfactory, if used exclusively, been under the impression that West-The addition of succulent feeds, such ern Canada was well beyond the The addition of succulent feeds, such ern Canada was well beyond the cided advantage, especially for cakes with snow it always pays to inventors 46: 32.34 they are said to have been money is as a spread upon toast or craving for grit that emists when hens fought in 1882.

Since it was an occupation are shepherds. Page of are deprived of it. It is evidence of the fact that they cannot thrive with honorable one, and proclaimed their established kindred to the shepherd kings. In ch. The addition of succulent feeds, such ern Canada was well beyond the cided advantage, especially for cakes with snow it always pays to inventory 46: 32-34 they are said to have been a man to be scorned because of them. that are meant to be kept for some the poultry supplies and be sure there shepherds, and keepers of cattle. It and their pastoral calling will segretime, as it keeps them moist and image is sufficient grit to keep the hoppers may be that the statement of 46: 34 gate them in such a way that they will can be explained by the hatred which not be a social encumbrance. It looks can be explained by the hatred which not be a social encumbrance. It looks feeds, among other reasons, and such The cheapest milk production is cannot be too strongly advocated for made from the dairy herd while on amount of liquid that the recipe calls.

Unless exceptional care is taken all farmers, hated the Arab shepherds the his father and brothers in the best for their nurness, even

-Chemical Review. the body it is rapidly converted into restrict the movement of corn and water and carbonic acid gas, which corn products from the infested disare harmless substances, always pres- tricts. The quarantined area now inent in the body, and any excess of cludes a large section of south-western which is promptly eliminated by the Ontario, including the counties of Elkidneys and lungs. Wood alcohol, on gin, Middlesex, Brant, Essex, Haldithe other hand, instead of being mand, Halton, Kent, Lambton, Linchanged into harmless substances coln, Norfolk, Oxford, Perth. Waterwhich are easily eliminated, remains loo, Welland, and Wentworth. Cerin the body as such for a considerable tain townships in other counties are time, and is then slowly converted into also subjected to quarantine. These another poison—formic acid—the acid are Brighton in Northumberland; Culwhich is found in ants. These poisons, ross in Bruce; Darlington and Clarke and perhaps a third formed from the in Durham; Colborne, Goderich, Grey, wood alcohol, formaldehyde, attack the Hay, Hullett, McKillop, Morris, Stan-

poison. Sixty to seventy-five per cent. double quarantine, these products may

The European Corn Borer.

ily infested. A regulation governed by the Destructive Insect and Pest Act, that came into force on Septem-When ordinary alcohol is taken into ber 1 this year, is designed to further of those taking four ounces—that is, a be moved without restriction within the quarter of a pint or half a glassful— quarantined area. Certain exemptions I will explain, in a few words, how have died or become permanently are provided to facilitate shipments that carry no risk of spreading the

prises offered for that section comparisons Canada and the oat growing strangs are well twisted. Now slide and feel that the bossies are paying the notched board slowly toward the machine and the rope will twist itself. Strage off the fibres with a blow toren fellows are grumbling about the war only have a size piece of rope that a way low cost.—R Builingers.

This keeps me busy throughout the shinked spring termilk or the whey of sour milk. This keeps me busy throughout the winter months. I usually work from pound chicken usually brings around five in the morning until seven at sight. My wife and I do all this work only hiring at threshing and sile.

A successful man is one who knows filling time.—F. A. Bessers. week is enough for this treatment.

ORAN

HEAL

ters through this Crescent, Toront

Interesting facts are to light by the annual British army for the September 30th, 1921, j two years later. Out of 106,071 men

their services to their K try, over 51,000 were rejective of this number has pass the medical inspecti eral standard of the mer for enlistment was poor. was expressed that this due to their mode of living war when they were grow is safe to say, however, proportion of the men suffering from various defects that may or may ous but which are bad er vent them becoming soldi grettable feature of man ments and defects found, started in childhood or and could have been corre much difficulty if they h given attention in time. people will ask who is to b seeing that these childre given the necessary atten rather a difficult question for there is a joint respon parents are responsible to and so is the school teach local or provincial health of Responsibility chiefly lies the parents to remain in thildcraft, and child hygi trying to diffuse the ne formation to parents that

What Makes the St What, asks Discovery, sun hot? Perhaps most p of the sun in a vague kind gigantic bonfire that will is, however, certainly no cause the highest known of combustion is about thr degrees, and the sun has ture of six thousand degr over, it has been calculat bonfire, even of the size could give more than twen

dred years of heat. How many years the st radiating heat energy is problem to solve; estimates ly expressed in hundreds Some persons believe that meteorites feed the sun. there would be an increa mass of the sun and there celeration of the earth in i a shortened year. There also that make a theory tivity as a source of sun e

The theory that Lord Ke ed, and what M. Alexandre chooses as most plausible, ally advanced by Helmi opinion was that the heat was the result of the ene gradual contraction. The from that theory is that i

Beware of Imitat BAYER

Cross" on package or on t are not getting the genuine pirin proved safe by million scribed by physicians ove

three years for Colds Toothache Lumbag Neuritis Neuralgia

Rheuma Pain, P Accept "Bayer Tablets of only. Each unbroken pack tains proven directions. Han of twelve tablets cost few cen gists also sell bottles of 24 Aspirin is the trade mark (in Canada) of Bayer Manufa Monoaceticacidester of Salid While it is well known that means Bayer Manufacture, the public against imitations, lets of Bayer Company will b ed with their general trade n "Bayer Cross."