

PT PAYS TO KEEP COWS

Cows as farm animals are useful in more ways than one. They are a necessity. They simplify farming, reduce risk, produce the best food and reduce the loss in marketing bulky farm products. Where the feed must be purchased cows are not prafitable, but on the farm where the feed is raised they are a paying investment. The farmer that sells such feed as say, corn, oats, forage, etc., must naul the products to market, take risks and pay for high cost of handling. The grower of feed, if he as a dairy cow, may feed it and thus get the advantages without paying the high cost of marketing. Its secures a market at home for much of the bulky products, as hay, sitage, grain, etc., and the products he markets are not rough, bulky, raw materials, but finished products such as milk, butterfat, cream, cheese, butter, etc., food products for which there is likely to be a good demand at a wider margin for profit. The farmer with cows has a regular income daily, weekly or monthly. This income is not hampered by bad weather nor drouth. The increased fertility to the soil as a result in keeping down, saving and applying manure, rotating and applying manure, rotating and applying manure, rotating and pacturing cows may be considered. Poor soils are readily built up Cows as farm animals are useful

caving and applying manure, rotating and pacturing cows may be considered. Poor soils are readily built up to field large crops and more profitable returns. Raising cayes is an added income. The skimmed milk, the grain, hay and sliage that would sometimes be a surplus with poor marketing demand may be converted into cows or feed. Or pigs and lambs may be raised on the grain and ekimmed milk with a small pasture. To-day a dry cow is worth aimost as much as a fresh ope, and should receive as much attention as ever. When the cow is with calf and censes to give milk in paying quantities, while she is still receiving a full share of feed, it indicates that the development of the embryo has reached such a stage that the cow must give over a part of her energy that would otherwise go toward producing milk, to supplying life-giving blood for the embryo. Some cows are practically dry three months after becoming pregnant. Others may give milk almost up to the time of calving. destimed milk with a simal passure.

To-day a dry cow is worth aimost a many he ration as ever. When the cow is with calf and cases to much attention as ever. When the cow is with calf and cases to give milk in paying quantifies, while ske is attliffed in the soil particles, utility to the embryo has reached and the state of plants hold the soil particles, utility to the embryo has reached and the state of the embryo has reached and the state of the embryo has reached and the state of the embryo. Some cowe are practically dry three months after becoming pregnant. Others may give milk allowed the embryo has reached upon the embryo has reached and the state of the embryo. Some cowe are practically dry three months after becoming pregnant. Others may give milk allowed the state to milk a cow when she is within a short time of calving. The supplying the first six months of the development of the embryo the cow were, a mistake to milk a cow when she is within a short time of calving. The protein of the swilling and the state of the matier, except that she cets a better an interest of the same prices. Brain is not especially good in the covery of the same prices. Brain is not especially good in the covery of the same prices. Brain is not especially good in the covery of the same prices. Brain is not especially good in the covery of the same prices. Brain is not especially good in the covery of the same prices. Brain is not especially good in the covery of the same prophet. It was no less a personage that the cover is not should be fed to diberally or source of the same prices. Brain is not especially good in the covery of the maties, and the special prices is a better and the price of the maties, and the

petite, and she apparentily puts on a little flesh while her milk-producing capacity is falling. But during the last three months of the period of gestation is the critical stage. During this time two-thirds of the development of the ambryo takes place. Thus it is easy to see what the danger is in cutting off her feed at the critical time and putting her on a poor pasture. In fact, the cow heeds more feed during the first six months of the period than she needed before, and she will show it by eating many things for which she showed no appetite before.

Of course, it is not necessary to give the cow at this time the same kind of feed she has been getting. High milk production concentrates may be left aimost entirely out, but it is essential that she have pasture. If this is not available, it must be made up of a double quantity, of good legume hay. If pasturage is available, little or no sliage may be fed, and some coarse, hay should be given from time to time to add, bulk to the feed and to keep the bowels from being too open. Sitage is good to feed to fall pregnant animals that like it just before the young is brought forth, as it is laxative and kneps the bowels in triff. But too much should not be given. As for concentrates for the dry cow, wheat bran is usually best. Other brans are good and various ground grains may be fed in proportion. Laxative feeds like it inseed and cottonseed mest are left out.

- THE KIND OF COW IS IMPORTANT More attention should be paid to the kind of cow kept and the way they are cared for. In these times of high and searce feeds, it is a very matter to loss money on poor

Milk drawn at night and morning



differs considerably in the percentage of fat. This is not due to any material difference between the milk being secreted by night or by day, but because of unequal difference between the periods. When cows lie still there is a larger per cent of water se of inequal difference between periods. When cows its still re is a larger per cent. of water is correspondingly less percentage solids in milk. Generally speakt, the milk is richest in butterfat it has been milked after the short-period. This has been determinable of the cows are milked three, four five times a day.

est period. This has been determined where cows are milked three, four or five times a day.

Cows vary from day to day. Usually this can be accounted for by change of feed, sudden changes in the weather indiaposition of animals, etc. There is always a variation between the milk first drawn and the last drawn. The first is very low in fat, while the last or "strippings" is very rich. Sometimes this may be as much as I and 10 per cent., respectively. The larger globules of fatt being nearly as large as the small milk, ducts, pass along rapidly than the milk fluid.

The amount and the character of food have a considerable influence upon the quantity of the milk. But the quantity is more easily efectfed by changes in the character of the food than the quantity. Cows kept under favorable conditions, with an abundant supply of food, it is hardly possible to increase the proportion of fats to other solids by a change in the food. But while the amount of the warlous constituents of the milk is under easily affected by the food, the grainity of the constituents themselves may be considerably influenced, especially the fat. For Instance, Inseed meal, gluten meal and certain other foods make considerably influenced, especially the fat. For instance, linseed meal, gluten meal and certain other foods make soft, oily fat, while cottonseed meal, certain legumes and wheat bran make fat,

FARM NEWS AND VIEWS. The dairy farmer, the producer of milk and cream, controls the quality and price of butter. If he furnishes cream of good quality beingeness possible the manufacture of good butter, which will command the highest price on the market. If he supplies cream of inferior quality of low-grade butter is bound to be made from it, which means small returns for the product. means small returns for the product.
The dairy farmer, is the controlling power which determines the destiny of the dairy industry. The care he gives the cream on the farm determines the financial returns from the butter determine the prospericy of the dairy farmer, because the price the

butter determine the prospertly of the dairy farmer, because the price the creamery pays for butterfat is necessarylly largely, regulated by the price the butter brings on the market.

The application of barnyard manure has built up many poor soils and enabled farmers to prosper. More manure ought to be produced and more used. Poor soils mean poor farmers; rich soil is likely to mean prosperous farmers.

scours may result.

Dirf carries bad flavors. If the barn or its surroundings and cows are dirty it will result in poor milk; poor milk results in poor cream; poor cream results in poor butter.

Are Your Nostrils Full Of Catarrhal Discharge?

If So, It's Time You Got Wise to Catarrhozone, the One Certain Cure

By no other means can you get relief so quickly as from Catarrhozone. It's the most direct remedy—direct because you breathe it to the very spot that is irritated and full of catarrhal germs. Nothing roundabout in the Catarrhozone method. It acts instantly, clears the throat of phlegm, stops the hacking cough, relieves tight chest, removes bronchial irritation.

So healing and soothing is Catarrhozone, so full is it of curative

So healing and soothing is Ca-farrhozone, so full is it of curative essences that winter ills flee before it. Carry a Catarrhozone Inbaler in your purse, in your pocket, use it to ward off your little colds before they grow big. Dollar outfit lasts two months, small size 50c, trial size 25c; all dealers or the Catarrhozone Co., Kingston, Canada.

A TRUE PROPHET

Prince's Grandfather and American Unity.

(N. Y. Sunday Sun.) The eldest son of England's democratic King has crossed the Atlantic cratic King has crossed the Arlantic and his presence on this side of the ocean will evoke, from the harpstrings of both our national history and personal memory, not a few delightful chords. In a word, because of the initial visit of a Prince of Wales in 1860, American patriotism is to-day more of a reality. The "indissoluble union of indestructible States" resembles much more that "indissoluble union of indestructible States" resembles much more that adamantine rock, which Lincoln believed it to be, and not at all the "rope of sand" which President Buchanan feared and talked about.

It was in those dark days when the fifteenth President, "the Sage of Wheatland," called for a day of fastfifteenth President, "the Sage of Wheatland," called for a day of fasting and of prayer—as he did well to

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FACTORY DISTRIBUTORS SALE OF

READY ROOFING MILL ENDS

MAKE A BIG EXTRA SAVING

All Roofings offered in this sale are "Mill Ends" of our highest trades. We particularly recommend the "Mill Ends" of Slate Surace Roofing. You can lay it right over the top of old wood shingles. Kindly Order by Number and for convenience clip this advertisement and mail with your order.

D 32. "Mill Ends" of Three Ply Mica Surface Roofing, weighing about 55 pounds per square. Our regular price \$3.65.
"Mill End" price only.

E 42. "Mill Ends" of Slate Surface Roofing, in ornamental natural colors, red and green, extra heavy and usually called "four ply. Weight per square about 80 pounds. The price usually paid for this Roofing in Ontario will be from \$4.00 to \$4.50, depending on the distance from the mills. Our "Mill End" price

NOTE.—If intending to lay Slate Surface Roofing over old wend shingles, allow 10 cents per square for entre long, large-head sails.

OUR "CAR SHEAF" OFFER or introduce our Roofings, and to quickly dispuse of our present Park we will PREPAY FREIGHT on orders of Ten Relia of the Ottawa Valley, providing years of Ten neighbors, with your grees, On a hipments outside this allow freight to the Ottawa Valley, or French River.

SEND NO MONEY If there is an agent of the Railway Com-order C.O.D. subject to inspection and approval before you pay a cent. If there is no agent, send Cash with Order, "your memory back if not satisfied."

The HALLIDAY COMPANY Limited HAMILTON

trace of snobbishness. He came un-expectedly into the State House at Philadelphia and was mightly inter-ested in Independence Hall.

whose includes who remember and can confirm what we tell. Literally, they took up the bell, which the men had put down. What did the Prince, to his disgust, see but an eating stand and materials of quick lunch, whose steaming odors filled the place? We, with our juvenile Keystone State appetite, voted these vians as ambrosial and fit for the gods. There we took our Philadelphia pepperpot, waffles, hominy, scrapple, smearcase, cheese-cakes and "dump noodles and snita"—for Manhattaners, we translate, wheat flour doughballs, dried apples and ham boiled tegether and served with molasses.

wheat flour doughballs, dried apples and ham boiled tegether and served with molasses.

To crown the vision, beheld as joyfully by the Quaker City small boy, who concealed a mammoth cave under his diaphragm, as it was sorrowfully looked upon by the surprised Prince, there sat a goddess of liberty, in the form of a fat lady, who might have tipped the scales at a quarter of a thousand pounds. Red faced and beaming with motherly good nature, amid appetizing clouds of vapors, she presided over the steaming pots and pans, kept calorically high over live charcoal in sheet iron bases. This lady bountiful dispensed soup, beans, pretzels and pickled tripe with especial joy when candidates for her pine benches began to multiply, at 12:05 post meridian, and she soon bad a waiting list. The more, the merrier, seemed to be the motto of herself and her maids. There was the Liberty Bell, which, then set on rough timbers under the stairway, furnished on its platform a dresser for dishes.

But, oh, what a debacle from august historic memories! Was the treasury of Penn's city so poor and even as low as that of the Buchanan Government in 1861 that the city fathers must rent out the sacred edifice for the mean revenue of an eating

Wood's Phosphodine. VIOO. E MISSIMO THE GREAT THE GREAT HAVE TO BE A THE GREAT THE GRE

ORDER AT ONCE AND GET IMMEDIATE DELIVERY PROM STOCK

William Commence

manure ought to be produced said more used. Poor soils mean poor farmers; rich soil is likely to mean prosperous farmers. It matters very little how much land one farms, provided he farms well what he has.

Winter cover crops are of much benefit to worn lands, because roots of piants hold the soil particles, utilize the readily available plant foods that might be lost and return vegetable matter when turned under.

Calves are Raually fed whole milk for two or three weeks, then gradually changed to skim milk. About the time of changing begin to feed a litt'e grain, but do not think that it is necessary to use oilmeal or any other high-priced feed, high in protein of fat or both. Experiments at the Missouri experiment station show that a mixture of two parts of corn and one part of easts by weight class a great of two cases. On the change in Mr. Free-compelled a change in Mr. Free-compell

whole building should be restored to its original simplicity and use.

Philadelphia and was mightily interested in Independence Hall.

But, oh, what did he see in the hall-way and underneath the grand staircase? Listen, ye Daughters of the American Revolution of 1919, to whose mothers we owe much, while scious reasoning and yeudo-eloquence some there be yet who remember and stirged in favor of retaining strong they took up the bell, which the men through the properties of the same argument, of loss of revenue, which has been so industriously and with as much fallactions reasoning and pseudo-eloquence some there be yet who remember and stirged in favor of retaining strong they took up the bell, which the men strong individuality, who wrote one strong individuality, who wrote one of the most honest autobiographies in modern days, Samuel Whittaker Pennypacker. He turned the en-gines of his unique erudition to the reenforcement of the D. A. R. With women's tenacity and an importunity as invincible as that of their Biblicai exemplar and precedent, the Daugh-ters of the Revolution persisted and won. Independence Hall, restored to grandeur of style, is now an American mecca. What a tremendous agent for national unity! What an investment in nation wide loyalty to the ideal of the fathers!

ideal of the fathers!
Within a year from Edward's visit at the greatest of shrines of America, the greatest of her sons, Abraham Lincoln, sat in the Hall of the Fath-Lincoln, sat in the Hall of the Fathers, who looked down upon him from their speaking effigies on canvas. Later, cutside in the front space where stood once in the flesh and now stands in bronze the Father of his Country, and where in 1824 the cannon of old at Valley Forge and Barren Hill thundered welcome to our

Cook's Cotton Root Compound A safeine. Bold in three degrees of strength of the control of the 妈

visiting Lafayette, we saw Lincoln raise the Stars and Stripes. He hoisted to the top with the halilards the sallor's knot and ball, and then, with a jerk, set it open, and set rippling high in the air to the breeze the emblem of a Federal republic. Here again in 1865 we saw the form of the dead President lying in state amid the spirits of the fathers, while millions mourned, and at midnight women entered to lay flowers upon his pulseless heart, the memorial emblem of the greatest of sacrifices on the world's most famous mountain. And in that hall in 1918, here under the

American flag and around the Liberty Bell, met the delegates who proclaimed the creation of the central Euro

pean republics.
Like the diamond polisher's finish Like the diamond polisher's finish of the final facet on a uniquely rare diamond, a Kohinoor or Cullinan, the greatness of which throws the workman in shadow, we cut our story short here. Let the Prince of Wales, grandson of the cosmopolitan patriot of 1861, come among us. Let him see the splendor of a union of forty-eight States, which his grandfather helped to cement. We, too, have a jewel to cement. We, too, have a jewel room, not a Norman Tower shadowed by sinister memories, but in a temple of colonial architecture, honored by all the nation. Let the grandson see how well we have listened to his grandfather's words. Has "England always hear our premy". how well we have heard always been our enemy?" Well, some of us do not interpret history's leading facts with prejudices. With the memories of 1861 vividly recalled and reading the nation's story in the light of principles, as well as events, we find that British love for the great republic between the oceans and American affection for the two islands set in the sea may exist together. On the sea may exist together on the sea may exist together on the sea may exist together. On the sea may exist together on the sea may exist together on the sea may exist together. On the sea may exist together o

TORONTO FAT STOCK SHOW

The Toronto Fat Stock Show will be held at the Union Stock Snow will be held at the Union Stock Nards, West Toronto on Thursday and Fri-day, December 11th and 12th. Stock raisers should get the highest market price as well as some of the

Foraminifera Aid Science.

The little jellylike animals which the scientist calls Foraminifera, swarm so abundantly in the sea that their tiny cast off shells in some places make up a considerable part of the sediment which are laid down on the seas bottom and which my time may become beds of rock in a land area. The small size and the compactness of these shells protect them from some of the accidents that befall the remains of larger animals, so that in many samples of well borings the Foraminifera are the only shells that have survived in recognizable form the vicksitudes of drilling.

In the hands of specialists trained to identify fossile the Foraminifera may furnish the only available due to the age of the rock enclosing them and consequently to the existence of straia or structure favorable or unfavorable to the accumulation of oil, gas or water. Thus the "spectacled scientist," who may really look like an alert business man, becomes the helpful adviser of the "practical" oil geologist or the well driller.

Hankie Hankerings.

Deep dyed. Lots of black. Rolled edges, please. They call 'em suit hankies.

No more handspun linen for "best."
Fine Swiss embroidery imitates handwork. And there is a revival of fine lace trimming.

Catarrhal DeafnessCannot be Cured

ay local applications as they canno reach the diseased portion of the ear reach the diseased portion of the ear. There is only one way to coure Catarrhal Deafness, and that is by a constitutional remedy. HALL'S CATARRH MEDICINE acts through the Blood on the Mucous Surfaces of the System. Catarrhal Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, Deafness is the result. Unless the inflammation can be reduced and this tube restored to its normal condition, the inflammator of the normal condition, hearing may be destroyed forever. Many cases of Deafness are caused by Catarrh, which is an inflamed condition of the Mucous Surfaces.

ONE HUNDRED DOLLARS for any case of Catarrhal Deafness that cannot be cured by HALL'S CATARRH MEDITURE.

All Druggists 75c. Circulars free. F. J. Cheney & Co., Toledo, Ohio.

RINGS OF SATURN.

Mysterious Circles Seem to Be Made of Flimsy Stuff.

Nearly everyone, with the exception of a few unusually earthbound individuals, has felt at some time or individuals, has felt at some time or other a strong desire to gaze at some or the beauties and wonders of the heavens through a telescope and the one object that all of us wish to see, if, perchance, this desire is to be gratified, is Saturn, whose unusual ring system has so far as we know no counterpart in the sky, writes Isabel M. Lewis, in the Electrical Experimenter.

Experimenter.

All the planets in the solar system with the exception of the two innermost, Mercury and Venus, are attentions. with the exception of the two innermost, Mercury and Venus, are attended by satelites but Saturn, alone, has in addition to a large and imposing family nine moons, three distinct rings of great dimensions which form a total mass composed of swarms of minute particles revolving around the planet.

Why Saturn should be the only planet to possess such a system of

planet to possess such a system of rings has not yet been explained in an ntirely satisfactory manner, depending as it does upon the manner of the origin of the entire solar system which it is now agreed could not have followed the course outlined by the Nebular Hypothesis of Le Place. The theory of the origin of the solar system and every theory advanced to explain the manner in which the soar system came into existence must satplanet to possess such a system explain the manner in which the soar system came into existence must satisfactorily explain the cause of this peculiar appendage of Saturn. There is an interesting law known as "Roche's Law," however, named from its investigator, that states that no satellite of



Dr. Martels Female Pille



formed were it not so close to the planet. Within "Roche's Limit" the mutual attraction of the various par-ticles for each other that would tend West Toronto on Thursday and Friday, December 11th and 12th Stock raisers should get the highest market price as well as some of the big prize money by entering their well finished stock at once. Write, Secretary, Box 635 Union Stock Yards, West Toronto, for Premium List and Entry Blank.

Foraminifera Aid Science.

The little jellylike animals which the scientist calls Foraminifera, awarm so abundantly in the sea that their tiny cast off shells in some places make up a considerable part of

outer ring.

An interesting observation was An interesting observation was made a year or so ago of the passage of the rings of the planet between us and a star. Though the light of the star was diminished to one-fourth of star was diminished to one-fourth of its normal brightness when the rings passed before it, at no time was its light entirely eclipsed by any of the particles. It was computed that if the diameters of one of the ndividual particles had amounted to as much as three or four miles the star would have been temporarily eclipsed. An upper limit for the size of the moonlets was thus obtained. The average diameter of the particles is probably much less than three miles.

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ARE YOUR FEET CALLOUSED?

Putnam's Corn and Warf Extract.

This purely vegetable remedy acta plainlessly and is guaranteed. Insist on "Putnam's" only, 25c per bot-

White Beads Are the Fad.

Some are of white bone. And others are of shiny white porce-

lain.

All white they are, usually, though some have the delicate pink flecks of the white coral. The beads are of generous size,

graduated, usually, and are in that length which extends five or six inches from the base of the throat. And they look extremely well on dark gowns and cloth frocks.

Many children die from the assaults of worms, and the first care of mothers should be to see that their infants only expel worms from the system, but act as a health-giving medicine and a remedy for many of the ailments that beset infants, enfectling them and endangering their lives.

Conquers Asthma. To be relieved from the terrible suffocating due to asthma is a great thing, but to be safe-guarded for the future is even sateguarded for the future is even greater. Not only does Dr. Kellogg's Asthma Remedy bring prompt resief, but it introduces a new era of life for the afflicted. Systematic inhaling of smoke or fumes from the remedy presents reattacks and often effects a permanent cure.

DID YOU EVER?

A furrier was selling a coat to a woman customer. "Yes, ma'am," he said, "I guarantee this to be genuine skunk fur that will wear for years,"
"But suppose I get it wet in the rain," asked the woman, "What effect will the water have on it. What will happen to it then? Won't it spoil?" "Madam," asked the furrier, "I have only one answer: Did you ever hear of a skunk carrying an umbrella?" Relief for the Depressed .- Physi-

cal and mental depression usually have their origin in a diso dered state of the stomach and liver, as when these organs are deranged in their action the whole system is .ffected. Try Parmelee's Vegetable Pills. They revive the digestive processes, act beneficially on the nerves and restore the spirits as no other pills will. They are cheap, simple and sure, and the effects are lasting.

Time Has Tested It .- Dr. Thomas' Eclectric Oil has been on the narket upwards of thirty years and in that time it has proved a blessing to thou-It is in high favor throughout sands. It is in high layor throughout Canada and its excellence has arried its fame beyond the seas. It has no equal in the whole list of liniments. If it were double the price it would be a cheap liniment.

MARKED FOR FUTURE REFERENCE. "Willie, I hear you've been fighting with one of those buys next door and have given him a black eye,"
"Yes. You'see, they's twins and I wanted some way to tell them apart."

Worms cause fretfulness and rob the infant of sleep, the great nour-sher. Mother Graves' Worm Exterminator will clear the stomach and intestines and restore healthful-

No surgical operation is necessary in removing corns if Holloway's Corn Cure be used.

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