FARM AND GARDEN. AGRICULTURE.

Not only is the quantity of manure

increased by a liberal use of bedding,

increased by a liberal use of bedding, but there is an improvement in qual-ity; the liquids are more thoroughly absorbed and retained than they can possibly be when an insufficient am-ount is used. We do not care so much for the price of grain if the profit is all right; the one we cannot control, but the latter we can to a degree, for so much de-pends upon the cost of production. By better methods of cultivation larger crops can be grown, and the more bushels an acre the less the cost a bushel.

bushel. After the wheat is well up, and when the ground is dry, run over it with a light harrow; repeat this just before the ground ireezes, and again in the epring. If the plants can be made to stool out by such cultivation a greatly desired end is reached, and if a few are pulled up it is no cause for worry. Larger stools are better than more plants.

The occupations demand a wider range of knowledge or a greater adaptability in the individual than farming. Successful husbandry per-mits the doing of nothing by routine. New questions require a man of re-cources to cope with them. It is an exploded idea that "any fool can farm."

exploded idea that "any fool can farm." To mortgage a farm for some un-paid portion of it is honorable and business like; the same can be said where it has been done to place need-ed buildings or drainage, which will give it larger earning power; but to thus try to meet current expenses noon the farm which is not sell sup-porting is very great folly. Cut down the expenses or lose the farm. Every acre of waste land depre-ciates the whole profit the farm spots of interest and taxes. Even if it requires a little outlay, such a spot can be turned into a grassy pas-ture lot or an orchard of some des-et a little money in some way. STOCK.

STOCK.

Good herders are necessary on the sheep ranch. No other animal is so near an idiot. If they get themselves into a corner they never help them-selves out. If one gets into trouble, the rest follow. Even with the small farm flocks it is well to keep out a watchful eve.

elves out. If one gets into trouble, the rest follow. Even with the small farm flocks it is well to keep out a watchful eye. We know that sheep will quickly bring up poor land; then why not recognize the fact that they will make good land better? In England the sheep is regarded as an import-ant factor in intensive farming, and there is no reason why we should not come around to the same view of the matter. We surely should not look upon them only as a makeshift by which we may procure some profit from poor lambs. — — we a thoroughbred buck and soon have a flock of sheep, which will show you understand your business; have in them not only a source of profit-but an occupation of pleasure. A good shepherd will improve his flock-and will have some ideal which he will endeavor to reach. — The Hanoverian cavalry is said to be the best monnted in the world— the horses large, strong, hardy and courageous, the result of thorough and persistent work in breeding. The Government of that country estab-lished a stud 159 years ago, and lent its encouragement to breeding. — In our eity markets a good draft horse sells for twice as much as a fair to good driving horse. It does not need proving that the one does not need ther for a farm or a district, for then buyers come direct to that locality for their purchass. This holds good in a larger scale, as wit-ness the fame of Kentucky; her re-nown for horse has a profitable patron. — Success in bee keeping is not 4 back." Learn to lave the hive full of bees

breeding does like produce like. A milk-ing strain securely established through generations of ancestors does not easily run out. The history of many brands of imported milkers is a long one. The old Devons make a fine carcass for the butcher, and hold their flesh well, even on rough pasture and hay. They are good milkers, and only ex-celled in richness by the Jerseys and Holsteins. If a reaily good general purpose cow is wanted we can fall back on nothing better than the Devon.

back on nothing better than the Devon. There is profit in early maturity for the dairy as well as for beef. Feed the helfer calf from which you hope to make the dairy cow, for her best development: breed early, and have her come into the dairy at twenty-six or twenty-eight months of age. Through the milk tester only can justice be done at the creamery, and only those seem to doubt its effi-cacy who are consciously bringing poor milk. It conduces to fair prices for butter, for the price at which poor butter must be sold has a tendency to keep down the price for all.

desired end is reached, and it a lew are pulses for butter must be sold has harder of the price at the parts.
After threshing clover for seed the straw is not worth much for feed, but it should always be hauled to the bearyard and turned into manure by using for bedding, rather than left to be party and turned into manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding, rather than left to manure by using for bedding rather than left to the part of the part of

Good butter in winter will sell at a price so much higher than in sum-mer that it will much more than bal-ance the difference in the cost of feed and care; but it will pay no better to turn out a poor product then than at any other time. One must know his business from begin-ning to end, even to the style which is most inviting when his packages are put up for the market. POULTRY.

POULTRY.

All summer long the housewife has been laboring with chicks and set-ting hens, only to find them shelter-less and unprovided for as winter approaches. A greater mistake a approaches. A greater mistake a farmer never makes than in not caring for his poultry; but there al-ways have been those who scoffed at poultry profits, and there always will be.

ways have been those who scolled at poultry profits, and there always will be. Fancy poultry breeding for pleas-ure, profit or fame, and running a poultry yard for market purposes and the money in it, are very dif-ferent things. The one is fun regard-less of expense: the other hard work with an eye on the incoming and out-going of every penny. Economy is as necessary in the poultry yard as anywhere else, but it does not all lie in the counting of the grains as they are fed. There is a saving in giving good food, pure water and clean, quarters. There is a woeful waste in keeping fowls one day after they are ready for market. The work is healthful, and it would put color into many a pale cheek if more of our suburban homes had poultry yards where they made it a business to raise chicks for the market, and in a business like way, which would require close attention and thoughtful management. Playing at it would amount to but little. The color of the shell is not an index of the quality of the egg, but, nevertheless, a large, white shelled egg selis in almost all markets for more than does a brown shell; but with the former, greater care must be taken, for a solied spot will show nuch more readily upon a white sur-face, and eggs which are not im-maculately clean, positively loses in value. Do not wash eggs, but wipe

ABOUT THE STABRY HEAVENS. Information About Our Distant

Celestial Neighbors.

ASTRONOMY FOR ODD MOMENTS About 6,000 stars may be seen with the naked eye.

An opera glass will treble or quad-uple this number. ruple

With a two-linch telescope about 1,000,000 stars can be seen; with a six-inch, 10,000,000; with the Lick and Yerkes telescopes, probably between 100,000,000 and 200,-000,000 and Ye between 000,000.

There are 20 stars of the first mag-nitude; about 60 of the second, 200 of the third, 450 of the fourth, 1,100 of the fifth and 4,000 of the sixtb.

The faintest stars visible through a telescope are reckoned of the six-teenth or seventeenth magnitude.

About 2,000 of the naked-eye-stars are too near the south pole of the heavens ever to appear above the horizon in the mean latitude of the United States.

United States. Of these south circumpolar stars six are of the first magnitude, leav-ing but 14 of this class visible to us. These 14 stars, named in the order of their brilliancy, are Sirius, Capella, Arcturus, Vega, Riged, Procyon, Be-telgeuse, Aldebaran, Spien, Altair, Antares, Fomalhaut, Regulus and Pollux.

Antarcs, Fomalhaut, Regulus and Polluz. At the Lowe observatory, in South-ern California, Canopus, the br.ginest star after Sirius, may be seen three degrees above the horizon. The Southern Cross is visible at Key West. Star distances are reckoned in "light years," that is, in the distance travelled in one year by light at the rate of 189,000 a second. A light years is 5,868,598 miles. The nearest star, Alpha Centauri, too far south to be visible to us, is distant 4.35 light years. The nearest of the northern stars is 61, Cygni, a star of the fifth mag-nitude in the Swan, or Northern Cross. Its distance is 7.2 light years. The distance of Sirius is 5.36 light years.

The distance of Sirius is 8.36 light years. The average distance of the ten first-magnitude stars of the North-ern Hemisphere, according to Dr. El-kin is 30.5 light years. Arcturus is not less than seventy and is probably more than a hun-dred light years distant from us. This star certainly passes the sun in vol-ume many thousand times. The Pleiades contain six stars visi-ble to eyes of only ordinary keen-ness, though twelve or fourteen have been counted in this cluster by persons of extraordinary eyesight. A two-inch telescope shows about 60 stars in this cluster. The famous photograph of the Ple-

Inch telescope shows about 60 stars in this cluster. The famous photograph of the Ple-iades taken by the Henry Brothers-in 1885, showed 2,326 stars. A more recent photograph, taken at the Takent Observatory, has brought the number of stars in this cluster up to 6.614—a thousand for every one seen with the naked eye. The distance of the Pleiades is thought to be "about 250 light years-or thirty times that of Sirius. The sun at the distance of the Ple-iades would shine as a star of the tenth magnitude, and would be just visible through a two-inch telescope. Alcours the brightest Pleiad, equals in splendor 650 suns placed side by Side, or ten stars of the brilliancy of Sirius.

Of the 20,000,000 stars down to the ourteenth magnitude, inclusive, 18,-000,000 lie in and along the Milky No star, probably, is absolutely fixed" in space, but over absolutely

No star, probably, is absolutely "fixed" in space, but every, star has a "proper motion"; that is, it is moving in some direction among the surrounding stars. Sirious, Aldebaran and Arcturus have changed their places among the other stars in the past two, thousand years to the extent of the appar-ent diameter of the moon. Thirty or forty miles a second seems to be about the average rate of the proper motions of the stars. A star of the seventh magnitude-known as 1830 Groombridge, in the constellation of the Great Bear, trav-els at the rate of 200 miles a second. It is sometimes called the "Runaway Star." els at the rate of 200 miles a second. It is sometimes called the "Runaway Star." If Arcturus is as distant as it was thought to be by Dr. Ekkin, this star must also be a runaway, traveling at a rate of over 300 miles a second. Star motions "in line of sight"--to-wards us or from us-can be observed by means of the spectroscope. Arcturus, Vega and Pubhe are ap-proaching at the rates respectively of 42, 36 and 46 miles a second. Aldebaran, Betelgeuse and Rigel are receding at the rates of 45, 16 and 12 miles a second, respectively. Like the sun, the stars are surround-ed by relatively cool gases and the vapors of metals, which cause dark lines to appear in their spectra. The stars are arranged into five or more classes, or "types," according to the appearance of their spectra. The stars of type I. are white. Sirius is the most illustrious example. The' Sirian''s tars are undoubtedly the hottest of the celestial bodies. Their spectra are strongly marked with hydrogen lines. They are gen-erally looked upon as juvenile suns. Among the chemical elements thus discovered to exist in the stars are so-dum, magnesium, hydrogen, calcium, iron, bismuth and antimony. The stars of type II. are yellow. Capella is an example. Their spectra resembles that of the sun, being thickly crossed with the weceptions, be-low the fifth magnitude. Their spectra show the element carbon consplu-lously. They are supposed to be decrepit suns, verging upon extinction as lumin-arises. There is abundant evidence that arie There is abundant evidence that There are dark, and therefore invisible as well as luminous bodies. Perhaps the extinct suns and the planetary bodies seattered through space outnumber the stars themselves, vast as their number is.



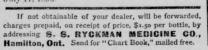
Manufacturers of all Lodge Requisites, Regalias, Uniforms, Badges, etc. Assistant District Attorney John F. McIntyre, of New York, has re-signed his position and sailed for England to take part in the defence of Edward J. Ivory, the alleged dy-namiter. HOME STUDY Book-keeping, Ponman-ship, Arithmetic, Short-Home. Low rates; perfect satisfaction. Cat. free. Trial lesson 10c. BRYANT & STRATTON, 36 College Bldg., Buffalo, N.Y. ONTABIO BUSINESS COLLEGE.



The way that Kootenay takes hold of old chroni cases of Rheumatism, and rids the system of the lurking poison upon which the disease exists, the endorsation by well-known clergymen, physicians doubt as to its power to cure this disease

use of Kootenay Cure.

Ise of Kootenay Cure. I, WM. H. WHY, residing at 47 Hughson Street North, in the City of Hamilton, do solernly de-clare that I have been afflicted with rheumatism for seven years, and at different times confined to the hospitals both in Hamilton and Toronto. Was discharged from the Hamilton hospital after eleven months' treatment, and on the 15th of January last I was told that they could do nothing for me. When leaving there I was scarcely able to walk. I tried a number of so-called cures; had my feet covered with fly plasters under directions of a physician, but got gradually worse. On the 18th day of this month, after taking two and one-half bottles of Ryckman's Kootenay Cure, I threw away my stick which I had been compelled to use for support, and am now a healthy man, free from all pain, after seven years' suffering. On Tuesday last I was on my feet for eighteen hours steadily with-ont any bad results. I am now able to attend to my work regularly, which frequently necessitates my hands being in water for hours. I consider Kootenay the most wonderful bl.od medicine and Rheumatic Cure ever known. WM. H. WHY. Declared before Notary J. W. Nesbit. Let 27 1902 Declared before Notary J. W. Nesbit.



What Delayed the Paper.

A Nebraska editor, whose paper wa late one week, explains the delay in

this lucid manner: "Our paper is two days late this week. owing to an accident to our press. When we started to run the edition on Wednesday night. as usual one of the guy ropes gave way, allowing the forward gilder-fluke to fall and break as it struck the flunk-er-flopper. This of course, as any-one who knows anything about a press will readily understand, left the gang plank with only the flip-flap to support it, which also dropped and broke off the wrapper-choke. This loosened the fluking between the also caused trouble. The report that the trouble was caused by over in-dulgence in Intozicating stimulants by ourself is a tissue of falsehoods, the peeled appearance of our right eve being caused by our going into the hatchway of the press in our anxiety to start it, and pulling the coupling pin after the slapbung was broken, which caused the dingus to rise up and welt us in the optie. We expect a brand new gilder-fluke on this af-ternoon's train."

Won't Get the Salary,

Won't Get the Salary, It is practically decided that Bishop Du Moulin, of Niagara, will not re-ceive the arrears of salary. The par-ticipators in the Toronto rectory fund have by no means been eager to re-tinquish their rights and consequently have not signed the renunciation in sufficiently large numbers to make it valid. The matter will therefore rest in abeyance until the meeting of Syncd. What action will thene be taken gannot be predicted because that body have no power to order payment.-Toronto News.

BERE IT IS" CEYLON TEA. Delicio Sold in Sealed Lead Packets Only. By Grocers Only Sold at 25, 40, 50 and 60 certs per lb. INDIGESTION CONQUERED BY K.D.C.



NOW in its 29th year, continues to occupy its pre-eminent position as the most thorough and widely-atiended business college in Amer-ica. For catalogue address

ROBINSON & JOHNSON F. C. A.,

WINTER TERM, MONDAY, JAN. 4, 1897.

Belleville, Ont.

And gently "Its hours From pain free !' The mourn "Bless it, t ness I learned o Bless it for "Bless the "In its men free; It has brou Bless the away Bless the o Answer to Let it so hear Shull echo year! Ne The Sax month Wc was called mas. The Gree of every y celebrate sun's annu From th rowed the lst of Ja-mans it fathers. In giving the presenting the ex-to receive was then, ing in the The lst served by great rejo fane and Janus, the it as a fa: of doing h The mon with it the derived, a that appel uarius, in heathen d as St. Pet sent, was the gates the gates There . New Year England, a in many p ing about spiced ale, that were from door from the p health. TI health. TI from the ped to pa I'd laa When I'd si An' a-pro An' I'd With a Ter r show lin'. Defianc In the I'd jo cellar An' the

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VATA

Bless the o I heard hin

"I'm weary said i "Will no me?"

"Thou poo white I'll bless th "For thou

My beautif

"Bless the cried "In merry bride-The riches Brought h ven !"

"Bless the

Torturing

Rheumatic

Pains.

Agony.

Limbs.

Hopeless

Hospital

Cured

ISSUE NO 2 1897.

Kootenay.

By

Incurables.

Wrenched

Old Chronic Disease KOOTENAY WILL DRIVE IT OUT

and hospital executives of its cures, leads past all

The New Ingredient, that works so marvel lously in searching out stubborn and chronic rheumatism, is just as effectual with most any other chronic disease. Hopeless cases of Bright's Disease yield to its influence, Eczema, in extrem forms where eruptions have existed from head to foot are in its records of cures. Pale, haggard and emaciated people, whose frames are all angles and curves, unrefreshed by sleep, troubled by indigestion and nervousness, round up in health through the

Japan. and the agent of the Mikado's Government has been a profitable patron.
Success in bue keeping is not "luck." Learn to have the hive full of bees as winter sets in and breed them full again in the spring. Here the new hives ready and the colonies running over full when the honey flow comes. For there is where the luck comes in and the good luck, too.
It is not well to be given too much to sentiments nor from affection of profitable use is passed; but in truth, this error is estably made because the owner does not recornize that his stock is on the down grade. On the farms of thoroughing successful stock raisers one will ind mainly young animals.
Healthy hogs should be taken from the sick, and not the sick from the sections containing the pen, on the ground, straw and troughs. It is further safety, during an outbreak, to have the sign and in small berds and in small besture. It is not every farmer who is sufficiently level hended to raise pies and keep them growing at the highest possible rate of speed. To do this means only the right kind of feed, regular feeding and good shelter. It is not every farmer who is a complicated problem. Live up to the success in the dairy lies in having a lot of Jerrevs or Holsteins.

DAIRY. If half the success in the dairy lies in having a lot of Jerseys or Holsteins. the other half is surely in good feed and care. If the cows had the mat-ter in hand they would doubtless be calling for an improved breed of dairy-non.

maculately clean, positively loses in value. Do not wash eggs, but wipe them with a damp wool/re cloth when taken to the house, if soiled.

PAINS BANISHED AS IF BY MAGIC

Nerviline-nerve pain cure-is a posi-tive and an almost instantaneous remedy for external, internal, or local pains. The most active remedy hitherto known falls far short of Nerviline γ r potent power in the relief of nerve pain. A trial will de-monstrate. nonstrate.

All in an Egg.

A raw egg. if swallowed in time, vill effectually detach a fish bone astened to the throat. The whites of two eggs will render the deadly corrosive sublimate as parmless as a dose of calomel.

barmiess as a dose of calomel. Eggs strengthen the consumptive, invigorate the feeble, and render the most susceptible nearly proof against jaundice in its most malignant form. It is said that eggs are found to be the greatest help in sustaining the oratorical efforts of modern states-men.

In France alone the wine clarifiers use more than \$0.000,000 eggs a

State of Ohio, City of Toledo, Lucas County:

88. Frank J. Cheney makes onth that he is the senior partner of the firm of F. J. Cheney & Co., doing busi-ness in the City of Toledo, County and State aforesaid, and that said firm will pay the sum of One Hundred Dollars for each and every case of Catarrh that cannot be cured by the use of Hall's Catarrh Cure. FRANK J. CHENEY. Sworn to before me and subscribed in my presence, this 6th day of Dee-ember, A. D. 1886. A. W. GLEASON, Seal. Notary Public.

Seal. Notary Public. Hall's Catarrh Cure is taken inter-

nally and acts directly on the blood and mucous surfaces of the system. Send for testimonials, free. F. J. CHENEY & CO., Toledo, O. Sold by druggists, 75c.

Amiable Mother-Here, Tommy, is some nice castor off with orange in it. Doctor- (playfully)-Now, re-member, don't give it all to Tommy; leave some for me. Tommy- (who has had some before)-Doctor's a nice man, ma; give it all to the doc-tor

more truly in the dairy, perhaps, All the election protests in British than in any other line of live stock Columbia have been dropped.

CORNS! CORNS!

Tender, painfu', corns, bleeding painlessly removed in twenty-four hours. Putnam's Painless Corn Ex-tractor acts magically. Try it and be convinced.

-" What in me is dark, Illumine : What is low, raise and sup-

port; That, to the height of this great ar-

That, to the hogh gument I may assert Eternal Providence, And justify the ways of God to men." —Paradise Lost.

"It's—it's about Ned," beginning to sob weakly. Ned was her husband, by the way. "I want you to look after —him—and see that—he in't—oh, coo miserable—you know. Promise me—I ask it as—my last request—that you—will look after—Ned " and the unhappy wife wept bitterly. The young woman was really deep-ly affected, but she had a flash of inspiration and she said briskly, al-most gayly:

"Don't you worry about Ned! I'll see that he doesn't go out of the family !" The invalid started, dashed away her tears and gazed at her sister as if she could not believe that she

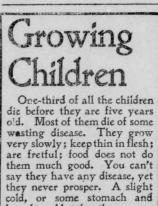
neard aright. What do you mean ?" she demanded.

manded. "I'll keep him where I can take care of him, dear. That'll be all right. Don't you worry." The invalid started for a minute, then sho said in a business-like tone: "You mean thing! I'll see that you don't" and with that she began a rand recovery. rapid recovery.

Carat Weight of Gems

Carat Weight of Gems Gems are generally bought and sold by the weight called a carat, which is equal to about 3,163 troy grains. It is usually divided, however, into four diamond or pearl grains, each of which is 7,925 of a true grain. The weight of the carat formerly dif-fered slightly in different countries, and this diversity finally led to a syndicate of Parisian Jewelers, gold-smiths and gem dealers in 1871 to propose a standard carat. This was subsequently confirmed by an agree-ment between the diamond merchants of London, Paris and Amsterdam, fixing a uniform weight for the dia-mond carat.

A plot to wreck the Cecil Rhodes train on its way from the north was discovered, and extraordinary precau-tions were taken in consequence, which luckly thwarted the plotters. Seven detectives who were put on the case have been shadowing three Germans from the Transvaal.



bowel trouble takes them away easily. SCOTT'S EMULSION of

Cod-liver Oil with Hypophosphites is just the remedy for growing children. It makes hard flesh; sound flesh; not soft, flabby fat. It makes strong bones, healthy nerves. It changes poor children to children rich in prosperity.

Book about it free for the asking. B No substitute for Scott's Emul-sion will do for the children what we know Scott's Emulsion will do. Get

the genuine. For sale by all druggists at 50c. and \$1.00. SCOTT & BOWNE, Belleville, Ont.





Jusiness Pollege Milner t tion of Cl cestors dia the abolit selling. On assume a Stratford, Ontario sening. On assume a : the wasse great mor abbot's ta the refect circulated his discret appellation The usual is the loy London af wardens o to their v bid them cup then the person while his Canada's most popular commercial school-none better in the Dominion. Thorough and practical courses, moderate rates, board low. Our graduates may be found in mary of the leading business houses from Halfhax to Vanj couver and from New York to San Francisco! Write for beautiful catalogue. W. J. ELLIOTT, Principal. LORD'S PRAYER and ten commandments Justrated, twelve colors and gold, size 1622, rinted on heavy plate paper. A beautiful and cristic picture. Retail price 50c, see nat make 00 per cent, profit. Write for particulars to-lay. The Queen Silverware Co., Montreal, the person while his TEXAS COAST LAND Accordin landers on iper befor Year of th icar Corpus Christi on the Bay. Corn. Co'tou. 'egetables and Fruit. Home of the fig and the rape. Season 3 to 6 weeks earlier than Cali ornia. GRAND HEALTH RESORT. For literature, prices and terms write to lear of th signicultur the case present da Paris, wh continued JAMES ANDERSON, San Antonio, Texas. kind of all FOR TWENTY-SIX YEARS In the December, "Essay UI which we BAKING were "gre of New Ye year consi 36 days e also when POWDER were adde others, th uary, were made prese THE COCK'S BEST FRIEND