PRACTICAL FARMING.

MERITS OF THE COW-PEA. Much has been written in praise of the properties of the cow-pea, both as a fodder and as a manure, but not one-half of its merits have been so far revealed. As a crop it will do well on any soil, even on very poor land it will thrive with but little attention, and a modicum of manure. sandy, soil, however, is preferred, by all the leguminous family, which embraces the pea, bean, lupin, lucerne, clover, vetches, etc. As it is in the light of a manure that we wish to treat this subject, we will say little of its excellent properties when used as a food for stock. To show the high estimate in which this family is justly held as a green manure, the following figures are availed of: In a eros of thirty bushels of beans there pre 2,600 pounds of grain and 2,200 pounds of straw, which contains ninety-nine pounds of nitrogen, sixty-seven pounds of potash, and twenty-nine pounds of phospheric acid. A crop of red clover, weighing two tons, contains one hundred and two pounds of nitrogen, eighty-three and a half pounds of potash, and twenty-five pounds of ter explained when it is stated that extent. as ninety pounds would represent a The bee journals and producers of hinted at the prospects for the coming for the welfare of Canadian soil for their supply of nitrogen. It will stere in the combs, but it can traced from the early seventies to the friegall and Willfarth, and later of Honey improves with age, and the genous food. Manures of a nitrogen- using it in this form. ous character, are, therefore, not re- Honey should always be kept in a quired to be applied to this class of dry place, and away from a cellar, larger proportion of nitrogen than agree with it. before.

BUFF PLYMOUTH ROCKS.

To the query "What makes the best all-round farmers' fowl?" for eggs, table and market, and, why? the writer would respectfully submit that the breed best suited for the farmer for the purposes named, is, without doubt, the Buff Plymouth Rocks, and will endeavor as briefly as possible, to give positive proof that such is the case.

We will take them from the shell, and consider them from every practical point. They are very hardy and rigorous, a large per cent. of eggs natching large, healthy chicks. They grow rapidly and attain their full development ahead of nearly all the middle weight varieties. Being vigorous, strong and healthy, they are good foragers, getting their own living handily in season if allowed their liberty. being much better in this respect than the heavy weights and heavy leg and toe feathered varieties, and also the light weight birds, as they are

proof, that, taking the year through, erable, of course, but the difference between the treight on a ton under Heaven, pretty hearly. In the are Lahore and Gujranfalla, with an average of 85 and 115 respectively durthose unacquainted with the details of there is no variety of fowls, on earth, in the value of the two, which respect no factions, no politics, but since the last two years. In these distinct the subject. One of the fortunate that will outlay them. This has been out of sight. Cattle and swine grow- saloons had been started things had tricts about the average number of things about eclipses is that photoproved beyond a doubt. The writer tively bear the freight charge, is away been different. Affairs were manag- snakes appear to have been killed graphers and amateurs can do good is prepared to substantiate the above. ing condense freights, and are, to the ed by miners' meetings, and the min-Their eggs are good size, and a rich extent that they do so, very advant- ers' meetings were dominated by the nor less infested by snakes than the brown color, and will be chosen in- ageous, helping to place the stock bar-room loafers, whose votes were districts around them. It would, stead of a white egg, almost invariably grower in a better condition than the cast, regardless of justice, for the man therefore be of more than passing inif people are given their choice. We grain grower, but dairying carries the who treated oftenest. Mr. Ogilvie told terest to discover whether Lahore and have never known eggs from any vari- work of condensation a great deal some very amusing stories of the mis- Gujranfalla have reputations for a ety to be more fertile, as we know in- farther, and puts the dairyman in a carriage of justice in these meetings. particular prevalence of poisoning stances where whole sittings have position of comparative independence They had finally fallen into disrepute, cases; for just as a cholera epidemic.

their strong points. From the time own as a stock farm properly man- of the Upper Yukon, the more navig- get rid of her husband by a dose of they leave the shell, with proper care, aged, but with equally good manage- able part, and the richer part of the arsenic so in out-of-the-way villages they are always plump, and we do not ment the dairy farm improves all the river. Mr. Ogilvie said, belonged to many a death is put down to snakehave to wait until they are fully time. The necessary removal of fer- Canada. On the lower slopes and bite to avoid awkward questions. Even grown before they take on flesh, as is tility is practically nothing in dairy- along the rivers the country was very where the whole village knows of the

plump symmetrical bodies, and rich, appropriating for his own land the fer- Canadian Government should take im- side the trouble and bother of having

eties that when dressed the dark pin One thing, however, is to be remem- was little or no timber on the lower make that preliminary investigation in eathers are very noticeable. The Buff bered, with all the advantages that stretches of the river. Great herds of which lies such a large portion of Rocks are an exception, as skin, shanks dairying possesses, poor dairying never thousands of cariboo, he said, roamand feathers are all a golden hue. pays. It is only with good cows, well ed the tops of the ridges. He had shot The above reasons, with many others fed and well managed, and careful at- six in ten seconds. The scenery of that might be given, are ample proof tention to the work all along the line the mountains, rising ridge above pre-eminently the farmers' fowl as well be reaped.

is the lanciers. Another positive proof is the fact hat they are more eagerly sought afer by farmers and fanciers than any variety that has ever been before the

public. This is supposed to be a strictly in just a word for the fancy. Can admire you for it.

you think or name a more beautiful PUF bird than one having the correct Rock | 1114 symmetry and characteristics, and which has a beautiful rich golden buff color?

The farmer desires something practical: In the Buff Plymouth Rocks he can have it, and with it he can have the most beautiful domestic fowl yet

CARE OF HONEY.

There is no limit to the time that honey will keep if not abused. Thoroughly sealed comb honey is usually in its highest state of perfection, and extracted honey is just the same, providing it has been sealed over before extracted, or left in the comb until it thoroughly ripens.

Comb honey usually remains in liquid form, but, in some in tances it granulates in the comb the same as extracted. It has been said that honey from alfalfa is more apt to granulate in the comb than almost any other, and this has been my ex-

Granulation of extracted honey is no detriment to it, and is always proof of its purity. Adulterations, such as glucose, etc., never granulate, hence when you see honey on the markets, especially during the winter season, that is in liquid form, you may look cial character of the country, the geophosphoric acid. In addition to these upon it with suspicion. Now most properties all leguminous crops con- people think it the reverse of this, tain a large proportion of lime. The and this is the principal reason that amount of lime contained will be bet- adulteration is practiced to such an

crop of clover, a wheat crop would honey generally, have done every- year. be represented by ten pounds, pota- thing in their power to educate the toes, twenty-seven pounds, mangels masses, in regard to this one fact, forty-three pounds and turnips about and progress seems to be slow. Comb seventy pounds. The proportion in fa- honey has never yet been imitated by grasp the situation and character of vor of the leguminous crop, it will be man, although it has been published the various routes, though it was an seen, is very considerable. The most that comb honey is being manufacstriking peculiarity about the legum- tured by machinery, but it is not true. inous plants lies in the fact that they Comb honey may be adulterated by can be practically independent of the feeding bees cheap syrups which they

Lawes and Gilbert, on leguminous older it is the finer the flavor. Explants generally that there exists in tracted honey is much easier kept greatest credit for years of prospectthe root-nodules, or small excrescences than comb, as the latter is liable to ing, often amid dangers and discoursis not obligatory on district boards and minute organisms, which are capable cases to exclude dust and insects. Exof assimilating free nitrogen, and rentracted honey may be kept in any last year in the discovery of the hidsnakes at all. So that from 940, 279, usually free from clouds. dering it in available form to the quantity, either in open or tight pack- den treasury of the Klondyke by a 874 and 466 respectively they only as carriers of nitrogen between the a very convenient and cheap package air and the plant, and the root-nod- is the common fruit can, which, having ules become a storehouse from which a large opening, will admit of remoy- in accordance with the unwritten law, stopping payment in these districts

plants, the manures which would bene- except the same is very dry and well to the scene, and within a few weeks about the same in each year. In fit most are those which contain pot- ventilated. Heat does not damage hundreds of claims were staked out Rohtak the deaths have certainly inhas been grown will contain a much it, but dampness and darkness will not

some time after being stored is always the best article when extracted, but more pounds are secured by taking it away as fast as well stored.

ADVANTAGES OF DAIRYING.

Dairying has many advantages. It makes a finished product, ready for the consumer, whereas most other lines only produce raw material. Now it is well ready to go at once into consumption, ought to be still more prospertricts with those where dairying is not carried on, and the fact will be dairying. This, when distance to mar- they would have to be careful. more easily domesticated than the lat- ket is considerable, and freight is high, is a very important matter. The difhatched, after having been shipped sev- as to freights. Dairying never wore and the industrious miners were very when men are buried quickly, and no out any many man's farm. Grain pleased at the arrival of the Canadian questions are asked forms a useful op-The table and market we consider farming does it. Land may hold its police. Six hundred and fifty miles portunity for an unfaithful wife to the case with many of the heavy ing, while on the other hand the dairy- well wooded, but there was not any real facts, they hush it up to prevent man can often profitably purchase and more than would be needed for the de-When matured, they have round, feed by-products, which is in effect velopment of the country, and the tender flesh, which never fails to tility of the soil of the grain farmer mediate steps to insure its preserva- to give evidence, there is the burden There are other advantages in dairying tion. Circle City, in Alaska, had been We have all noticed in the dark var- which we will not rause to enumerate. built of Canadian timber, because there

AN EASY TEST.

Timmins-I have never been able to make up my mind whether I am a genius or not.

Simmons-It is easily tested. Just act practical article, but I am sure that like a hog when you are in society, the reader will bear with the writer and if you are a genius people will

DOMINION SURVEYOR WM. OGILVIE TELLS OF THEM.

An Interesting Lecture at the Canadian Institute, Toronto - Canada Gas 100.00 Square Miles of Gold Region - Silver Copper, Lead and Asbestos Were Also to be Found.

Mr. Wm. Ogilvie, F.R.G.S., surveyor to the Dominion Government, who has recently returned from the Yukon district, delivered on Saturday night in the Canadian Institute at Toronto, lecture on that wonderful Eldorado of the north.

Mr. Ogilvie described first, and at considerable length, the various routes at present in use for reaching the rich gold country. He explained that to a large extent his hands were bound until he had made his report to Ottawa. and he would mention no opinions as to the most feasible route other than to urge strongly that it should be all-Canadian. He told, too, with much detail as to names, dates, and locations, the history of the gold discoveries on the Yukon. Then he described the methods of mining, the social regulations among the miners, the superfilogical formation; told stories of

FABULOUS WEALTH,

of great fortunes made and lost, and

Not having the advantage of a map, the audience could not very clearly easy inference that they were all three exceedingly difficult. The history of present time. To a North of Ireland man named Siwash George, who lived paid on 1, 28, 0 and 57 last year. It among miners, revealed the find to has caused no increase in the loss of three prospectors, and soon all the human life. In Delhi and Sialkot the on Eldorado and Bonanza creeks. Those creased from 13 to 40, but, on the othtwo creeks, Mr. Ogilvie was confident, er hand in Multan, when 874 snakes Honey that remains in the comb for would turn out 60 to 75 millions in were killed, 87 men died of snake-bite, placer mining, and they were but a whereas in the year following, when fragment of the gold-bearing district. no snakes were being destroyed, only Over the whole of an area 550 to 600 32 came to grief. miles in length by 100 to 150 miles in Every one has heard of the story width, 90,000 to 100,000 square miles, so firmly believed in by the natives, rich prospects had been found. It was that if you kill a snake its mate will the largest and richest gold area in take revenge on you, and the above the world.

nigh axiomatic that the production of had been shown samples of ore that as- rate, stick to the maxim of raw material stands lowest in remun- sayed \$100 to \$1,000 to the ton. The erativeness. The grain grower is, com- only question was whether the mother The Gurgaon authorities should be able paratively speaking; poor; the live- lode would be found of several large to test the whispered suspicion, that of the farm, thus carrying the work that it might not pay to work. Mr. of making the finished product a step Ogilvie showed a little bottle with \$95 farther, is almost invariably a step washed from one shovel full of pay higher on the ladder of prosperity, dirt, that a miner had given him. One The dairyman who makes a product man had taken out \$15,000 in eight hours. From one pan, which was two shovelfuls, another man had washed \$595. Speaking of the possious, and he is. Compare the dairy dis- bility of starvation in the district this winter, he said there were five or six thousand miners in there, but the same manifest. No other branch of farm- they had got through all right, and ing condenses freights so well as he thought they would this year, but

THE MINERS.

the writer's mind that they are that all the advantages of dairying can ridge, snow-clad, for thousands of feet, was grand and sublime, scarce- am? ly to be surpassed in the world. The silence among the hills was awful. A the cook. man could hear his heart beating as clearly as he could hear the ticking of his watch at his ear. In summer the mosquitoes were worse than anywhere else in the world. They were actually maddening; fire and smoke only made them more active. Once he had

killed 27 on the back of his hand with one stroke. Men had to work with gloves on, and netting over their

the earth was frozen solid, eternally, Above the pay dirt, or gravel, there was about twelve feet of muck imbedded, in which was a network of trees that had fallen during ages, all sound, because, preserved in the frozen ground. In the pay dirt he had found tinguished from the horns found on the prairies to the south, showing that the temperature must once have been. OTHER MINERALS.

Gold is not the only mineral in the country. There were indications, Mr. Ogilvie stated, that some of the richest copper deposies in the world would be found there. Lead, silver, and asbestos, were also found, and there were immense coal deposits within ten miles north. of the Yukon.

Concluding his intensely interesting lecture Mr. Ogilvie said he had met some Canadians who had seemed to be no need to be. In places where men's souls were tried he had found no men to surpass Canadians. He did not speak in the spirit of boasting or egotism, but to make a fair, just, manly there. statement, for all-round, resourceful energy he knest of no race of men to excel Canadians. He urged his hearwhere or under any circumstances. The able time of the year for travelling in riches he had talked of were in Cana- India. Cyclonic storms are very rare

SNAKES IN INDIA.

Ceaths from Snake-Bite and Other Notes of Interest in Snakedom.

The statistics of the number of snakes killed during the years 1895 and 1896 afford less scope for comparison as some districts as Delhi, Rohtak, Multan and Sialkot, have apparently taken advantage of the recent deci-

figures seem to warrant the supposi-Regarding quartz mining he said he tion that the Multan snakes, at any

> "LIVE AND LET LIVE." pees, while the deaths from snake-bite servations no one, has a higher rank in Sialkot and Delhi during the same man Lockyer, and his views, therefore, period. It would be interesting to as to the work to be done, are of exknow whether any such discovery led ceeding interest. the authorities in Hoshiarptu to cut | Speaking of the coast party's propos-

the annoyance which an official inof providing for all the minions of the

TOLD IN A WHISPER.

Is that one of your servants, mad-No, no! Don't speak so loud. That's

Old Gentleman, dictating indignant letter-"Sir, my stenographer, being a lady, cannot take down what I think of you I, being a gentleman, cannot think it; but you, being neither, can bared his hand for an instant, and easily guess my thoughts."

Right down to the bed rock, he said, IT WILL BE A MOST IMPORTANT SCIENTIFIC EVENT.

stronomers Expect to See a Splendid Celestial Sight Next January - Programme of the Work.

One of the notable solar eclipses of buffalo horns that could not be dis- the century, will take place on January 22, 1898. It will be visible over the buffalo had once roamed there, nearly the whole of Asia, Africa and Very few shells were found in the Europe, with the exception of Spain, gravel, but in the clay surrounding the the west of France, Belgium and Holcoal beds there were impressions of land. It begins on the earth generally January 22, 4.46 a.m., in longitude twenty-one degrees, thirty-six minutes, east, and latitude 0 degrees, 28 minutes north, and it ends on the earth generally at 9.53 a. m., in longitude 110 degrees, seven minutes east, and latitude 35 degrees, 36 minutes

Dry details these, and yet of great interest to astronomers in every civilized country in the world. India ashamed of their country. They had is the place where the most satisfactory observations can be taken during the coming eclipse, and many scientists are preparing to go

Everything is in their favor. Th eclipse will occur in the middle of ers never to be ashamed of Cana'a any- cold weather, and at the most favorduring January and the chance of a gale or stormy weather off the coast between Bombay and Karwar is very slight. The air, moreover, is very dry over the interior and as the percentage of mean daily humidity at stations in the Deccan, Central provinces and Berar averages about forty degrees, any instruments, such as photographic cameras, brought from Europe or America, should be so constructed that they will withstand the action of this great dryness of the air. Furthermore, statistics show that rain rarely falls in January in the Konkair and Deccan and that during January the coast districts between Karwar and Ratnogeri, which include the line of totality, are nn-

MUCH WORK PLANNED.

The Joint Committees of the Royal and Royal Astronomical Societies of London, has decided to send out three parties to take observations, one on the coast and two inland, at stations which have not yet been selected. The party from the Solar Physics Observatory will occupy the coast station, and all possible assistance will be rendered to it, by a man-of-war, acting under instructions from the Admiralty. This coast station will doubtless be in or near the old fort at Viziadurg. as there is no better point from which to take observations. The land parties, which will include the astronomer Royal, Dr. Copeland, Professor Turner, Dr. Common, Captain Hills, and Mr. Newall, who will represent the observatories of Greenwich, Edinburg, Oxford and Cambridge, who will occupy stations on the railways near the central line of the eclipse.

The weather prospects being good, and the facilities for travelling excellent there is every reason to believe that much valuable work will be done during the eclipse, not only by those who intend to visit India for that purstock grower, who feeds the products lodes, or a succession of small ones the majority of snakes for which re- ers, who are interested in solar physics, pose, but also by the Indian astronomwards are claimed are carefully rear- foremost among whom is Professor K. ed for the purpose, as 2,700 and 2,600 D. Naegamvala, who has already done were paid for in 1895 and 1896 respec- good work at Poona. Of the British tively, at a total expense of 1,080 ru- astronomers who intend to make obwere about equal in number to those in the scientific world than Sir Nor-

down the rewards given from 2.672 ed programme, to which he confines rupeles in 1895 to 214 rupees in 1896. himself, he says:-"I am one of those In that district also the death rate who believe that spectroscopic obseramong human beings from snake-bite vations during eclipses must take preactually decreased though only from cedence of all others in the minds of students of solar physics, but when The two worst districts in the Pun- I say this it must not be forgotten For eggs, there is an abundance of ference between the freight on a ton The men in there were of all nations people from snake bite is concerned, much more simply carried out and jab, as far as the mortality among the | that other inquiries remain which are ped instrumentally."

DANGER OF CARBOLIC ACID.

It Is Used Much Too Freely and Does Great

A board of health warning has been sent out in regard to the danger of using carboli: acid, either as a disinfectant or as a cleansing wash for simple wounds. Even in an ointment it is not safe. Local gangrene is said to be the penalty of too strong an application, or of a weak application too long applied.

Another point information advanced by the board is that carbolic acid is used in surgery as a germicide and disinfectant, and not as a means of healing wounds. On the contrary, it would retard or prevent their herling if used in improper strength.

IN THE FULLNESS OF TIME.

Mabel, how long has young Spoonsmore been coming to see you? Four years, papa. You can tell him I think that's long He knows it is. He's coming to see

you next time. TALKING BUSINESS.

is the boiler business, Mr. Noyes? Very quiet, Mr. Graves. How i undertaking?

Quite lively, Mr. Noyes, quite lively.