INTERESTING CHAPTERS FOR OUR RURÂL READERS.

I'm Successful Farmers Operate The the Farm -A Few Hints as to the Care of Live Stock and Poultry.



the past few years now and called the Indian Runner, and when traveling in Cum-

ety of waterfowl kept. The same is by chemically decomposing the butter rue to a more limited extent some parts of Southern Ireland. When in conversation with farmers and carmers' wives, more especially in Cumberland. I learnt that they pin their faith strongly to the Indian Runner, declaring this to be the most profitable duck known. This is due to the fact that the production of eggs is their chief object, table qualities being a secondary consideration. A few particulars with regard to this variety will be of after they have produced a certain interest.

Up to the present time information with regard to the origin of the Indian Runner has been very scant, and even now we cannot point to any definite a rancidity of about 18 degrees. No particulars respecting them, nor wheth- acid is produced in butter by light with er they are bred in any foreign country. the exclusion of air, nor by pure air In a small brochure issued by Mr. J. with the exclusion of light, but bacteria Donald of Wigton, Cumberland, it is may produce acid in this butter, hence stated that about fifty years ago a drake | the great importance of antiseptics in and three ducks were brought from In- keeping butter, as has long been known dia to Whitehaven by a sea captain, but | in practice and followed through the as the term India, even today, and to a | use of common sait, which hinders the greater extent fifty years ago, may action of the bacteria. A freezing temmean any place east of the Cape of perature and partial darkness have Good Hope, this does not help us as to about the same effect in diminishing the definite port of shipment or pur- the production of acid as has salt on chase. I am not without hope that this | butter exposed to light. The proportion article may lead some readers in Asia of casein in the butter has little effect to make inquiries on the subject. Mr. on the acidity, and indirect sunlight Donald states that the same captain does but little harm. Under ordinary brought over a further consignment a | conditions the acidity of butter is chieffew years later, but that "they were not | ly due to bacteria and not to direct oxiknown to their introducer by any special or distinctive name, having simply attracted his attention when ashore by | sunlight and warm temperatures, their active habits and peculiar pen- though these factors may retard the guin carriage."

and, we believe, the second also, were | bring about rancidity. presented to some friends in West Cumberland, in whose hands they remained absolutely for many years. But, with that desire for sharing in a good thing which is characteristic of the Cumbrians, a large demant rapidly sprong up for stock, and thus they have disseminated themselves through that and the adjoining county. The name given | er is to get the fat out of the milk with to them is, first, because they are supposed to have come from India, and, milk as possible. In every 100 pounds second, that they have a "running" gait; hence we have reached the combination "Indian Runners."

considers Indian Runners the best pay- is not a machine, but a living organism, ing variety of duck to keep, except and therefore will not give a different when reared absolutely and entirely for product because she takes different the table. For that purpose they are food. The feed does not affect the blood undoubtedly small, 3 to 4 lbs. each of a cow, from which milk is largely when fully grown. Whilst they do not formed. Feed will affect the quality of readily fatten, they are very nice eat- the milk sometimes by changing the ing, and the flesh more resembles the | composition of the fat itself. If the flavor of wild duck, but is much softer | quantity of fat is not affected the volaand more easily eaten. At ten or twelve | tile fats from the feed will become part weeks old the Indian Runner is as ten- of the fat in milk, and give its peculiar der as a young chicken. The flesh is flavor to the milk. These volatile flaparti-colored, the neck and shoulders vors can be expelled by heating milk or creamy white, and the rest of the body cream to 150 degrees. The case with much darker, the dividing line being which cream may be separated from the very clear and distinct.

ing duck that the Indian Runner excels, butter should be handled under such and is said to average 120 to 130 eggs | conditions as will give them perfect reper annum, without any special feeding, pose. Cleanliness should be strictly obbut simply when given hard corn morn- served. Impure air of the stable will ing and night. When worms are easily affect the milk, and ensilage will not found they require very little food oth- injure the milk when fed to cows. When er than this. The eggs are of fair size, cows have been milking a long period white in shell, of good flavor, and not | or have been over-heated, or without nearly so strong as is usually the case | sait, the milk will become sticky, and with duck eggs. Mr. Gillett informs me | prevent a complete separation of the that he has ten Runner ducks which cream. By having some fresh-calved have laid 746 eggs from January 1st to cows' milk to mix with the milk of cows May 30th of the present year, which, that have been milking a long time, a considering the severe frosts which prevailed during the first three months, is Keep the cream sweet and cold, and a remarkable result. The highest use a suitable fermentation starter, and average was sixty-one eggs from ten you will get a quality of butter in Janducks in one week. As a rule, if properly grown, these ducks commence laying when about five months old and if temperature of from 54 to 58 will be they are hatched in May and June will | suitable for churning and 45 minutes begin to lay before the severe weather | will be long enough to get butter.-Proarrives, and continue egg production | fessor Robertson, Ontario. right throughout the winter. Earlyhatched ducks are liable to moult in the autumn, and this means fewer eggs in the colder months. Ducks hatched the first week in March have been known to commence the first week in August, and it is more desirable to bring them out so that they will begin in November. Five ducks can be run with one drake. and the eggs are remarkably fertile. Indian Runners are non-sitters, but, as in most other breeds in which the maternal instinct is suspended, exceptions are found to this rule, but cannot be redied on for sitting purposes.

In appearance the Runner is lengthy and slightly built, with close, compact plumage. The fore part of body is elevated, and the head carried high. This type is found to be the best layers,

The following is a description of the characteristics of the Indian Runner: Beak: Bright orange in color, with a triangular tip of jet black, but as age advances the orange color becomes spotted with olive green, and finally assumes a dark olive green color, especially in ducks, the drake retaining the orange much longer.

Head: Of the drake, above the eye, a very dark brown, with a slight patch below the eye on each side, these markings being neatly rounded off behind Neck: Pure white down to near the shoulders, which, with the breast, is of a beautiful grayish-brown.

Under parts black, and wings pure white. white, and for about two inches above | The following rains washed it badly,

dark brown. Legs: Orange color. drake, except that the colored parts are field where it had been more deeply

duck. shoulders and chest, but is not so late in the fall that it would not head also becomes of a more dowdy spring and become a valuable crop.

color, without that brilliant fuster which characterizes the winter plumage. He also loses the curled feathers in his tail, which are not replaced until after the autumn moult.--Edward Brown, in London Live Stock Journal.

How Butter Becomes Raneld.

Butter stored in a warm room or exposed to sunlight may become rancid from noxious bacteria without becoming sour from either bacteria or from direct chemical change, according to V. Klecki, of Leipsic, Germany. The acidity of butter increases regularly with its age, and by the action of sunagain, references light and heat this goes on more slowly have been made to than under the usual conditions. Heat a variety of duck | diminishes the activity of the acid microbes, and they may be killed by direct sunlight, hence the degree of rancidity of butter cannot be estimated diberland and North | rectly from its acidity. Oxidation plays Lancashire I have an inferior part in rendering butter been surprised to acid, the sourness being principally due see the large num- to the action of bacteria, which are bers of this vari- chiefly anaerobic, getting their oxygen in and hence they can live without air or light. Temperatures of freezing and of body heat retard the production of acid. The addition of four per cent of poisonous flouride of potassium to test tubes of butter entirely prevents the action of acid-forming bacteria, and the butter retains its aroma taste and consistency, but the flourides cannot be used as preservatives because of their polsonous properties. The bacteria die quantity of acids in the butter. Hence, the acid number eventually reaches a maximum beyond which it does not increase. This maximum corresponds to dation of butter fat. Nevertheless, butter should be kept away from direct acidity of the butter, but because they The first speciments brought over, also induce putrefactive changes which

Skill in Dairying. In producing a pound of butter there are sixty-six times more room for skill than in the production of one pound of potators. Dairying offers a man the best chance for putting his skill into money. The object of the butter-makas little of the other constituents in the of butter there should be about 13 pounds of water, 82 pounds of butter fat, 3 pounds of salt and 2 pounds of the A breeder of this variety says that he other constituents in the mik. A cow milk sometimes depends upon the kind As already mentioned, it is as a lay- of food a cow takes. Cows for making better quality of butter can be made. nary as good as the quality of June butter. If cream is properly tempered, a

Whence the Quality?

Quality of milk is unquestionably bred into a cow, and not fed in. My own convictions in regard to these points which you raise are as follows: The perceptage of fat in a cow's milk is not materially influenced by the selection of foods, provided she is fed a generous and well-balanced ration. 2. In a large amount of feeding of milch cows which this station has done during the last five years, we have observed that changes in food have produced changes in the amount of milk rather than in its character. Generally speaking, an increase of the total amount of fat produced has been accompanied by a corresponding increase in the other solids, as well as in the volume of milk. A milking cow belonging to certain breeds that produce thin milk cannot have Jersey quality fed into her milk any more than one can feed brains into a Digger Indian. That quality must come into an animal of those breeds-if it comes at allthrough a process of selection and persistent good feeding, and will be attained only after several generations. perhaps not then.-Maine Expt. Sta.

A Crimson Clover Question .- Mr. F. W. Sargent, of Amesbury, tells the Farmer and Homes of success with crimson clover where others have failed. His success also was purely accidental. He sowed a side hi!! last Tail: Brown, with curled feathers fail with crimson clover and berdsgrass, the tail the feathers are a very rich and to all appearances this spring the crimson clover was a failure, but later rather light, sandy soil at Lansing, it began to germinate and come up in Michigan, for twelve years or more, has The duck has similar markings to the good shape at the lower part of the a sober brown, like a very light Rouen | covered by the wash from the hill he above, and since then has done very In summer the drake, as is the case | nicely. This experience raises a ques-Rouens, assumes a color tion in Mr. Sargent's mind, whether or that of the duck on back, not if crimson clover could be sowed so light in color. The sprout, it would start early in the

GARDEN

and the second of the second o

MATTERS OF INTEREST TO AGRICULTURISTS.

Some Up-to-Date Hints About Cultiva tion of the Soil and Yields Thereof-Horticulture. Viticulture and Flori culture.



OTANICAL name. Arrhenatheum /elatius. Stem stout, erect, two to four feet high, from a mass of perennial fibrous roots, leafy leaves broad and flat, six to ter inches long, rough (the sheathe pointed smooth) panicle

on rather short stalks, two-flowered (the lower one staminate only, the upper one perfect), about three-eighths of an inch long; empty glumes very unequal, the lower one smailer and one-nerved, the upper three-nerved, both thin and transparent, without awns; flowering glume seven-nerved, hairy at the base, roughish; the flowering glume of the lower flower has a long, twisted, bent awn proceeding from its back just below the middle; that of the upper flower has only a small bristle-like awn near its apex. Tall oat grass is a native of the Old World, where it is one of the most valued grasses both for hay and for pasturage. It makes a strong root-growth and lasts well in the pastures. It does well in most localities in the southern and eastern parts of the United States. It is an excellent grass stupidity and selfishness. Much as we does not run fast enough "Mike" will grass and meadow fescue. It gives an of trial on all but the very driest soils. Its hardiness is shown from the fact that it has often escaped from cultivation and still continues to thrive. One air-dried specimen analyzed by the

loose, five to ten inches long; spikelet

than in killing so much timothy. There are some bulbs on the sort raised in Michigan, but they are not hard to kill. Like orchard grass, it ripens very quickly after blooming, and make good hay there must no delay in cutting. As blossoms rather early, many let it go too long before cutting, when the stems become woody and of poor quality. Again, bad weather often interferes with the cutting just at the right time, and poor hay is the result. A man doesn't want a large quantity of this grass to mow, unless he is prepared to cut it all in a day or two. It makes a fine growth the first season after sowing, and, if sown alone, will cut a | Cuts from the Auditorium and Annex Can good crop of hay. I find that stock eat the grass well, though most likely they would prefer to have some grass not so bitter for a part of the time. The seed is rather bright, weighing fourteen pounds to the bushel in the chaff. About two bushels is the quantity usually sown per acre. Only half of the flowers set seed, as every other one is staminate. The seed is rather large, starts early, and soon makes a vigorous growth. This fits it for alternate husbandry and for dry countries.

In sowing the seed care needs to be used to cut the grass just as soon as the top of the panicle is ready. Not a half day should go by or seed will be lost. It is cut high, bound in small bundles, shocked till well cured, when it is drawn to the threshing floor on a wagon supplied with a canvas to . ave the shelling seeds. It yields from ten to twenty bushels of seed per acre."

says Farming World. The term pigheaded has come to be looked upon as expressing the very lowest form into one carcass a greater amount of other domestic animal, the mule excepted. The pig is a cannibal of the most revolting order, often devouring its own young. It is a gormandizer of the first water, scarcely anything coming amiss

A pig is not a gentlemanly animal

for use in mixtures with such species | might wish to defend him, we have to as tall fescue, smooth brome, orchard admit that there appears to be rolled abundant yield of hay. It is deserving "pure cussedness" than is found in any

buminoid nitrogen, .95.

Beal, in his grasses of North America, South Dakota experiment station gave the following: Water, 6.84; ash, 7.90; ether extract, 2.85; crude fiber, 28.72; says that this gras is known in some parts of the country as False oat-grass, French rye-grass, Evergreen grass,

J. B. Lawes, of England, says of it The endowments favorable to this grass are its hardiness, its comparative indifference to the character of the soil. its particularly ample root growth, both deep and superficial, its strong, tufted habit, and its early flowering tendency. It yields a considerable quantity of foliage on the culms, which affords a good deal of leafy feed in spring. It produces rapidly after cutting; its taste is bitter, but it is not disliked by cattle. It does not grow abundantly, except upon poor soils, and is, upon the whole, of somewhat questionable value. It is much grown in France."

Among English seedsmen there is a very poor opinion of this grass, and some call it a noxious weed. But on this side of the Atlantic the results of experiences are different.

Prof. D. L. Phares, of Mississipp says: "It has a wonderful capacity for withstanding the severest heats and drouths of summer and colds of winter. It admits of being cut twice a year, yielding twice as much hay as timothy, and is probably the best winter grass that can be obtained. To make good hay it must be cut the instant it blooms For green soiling it may be cut four or five times, with favorable seasons. Along the more southerly belt it may be sown in November and onward till the middle of December. It is one of the most certain grasses to have a good

Other American authors speak very highly of it. Prof. Beal sums up his investigation as follows:

"The writer has raised this grass on in some other the state, and thinks tell why there such conflicting opinions in relation to its value. In England the climate is moist, and the finer succulent grasses thrive well, while tall oat-grass does better in a hotter, drier climate. He has had occasion to kill several plats, and has had no more trouble with it

crude protein, 7.11; nitrogen-free ex- from a luscious grape to an old boot. tract, 46.58. Total nitrogen, 1.14; al- As for generously yielding anything thought of, if he can hold it. There is just one trait in his character that makes us almost ashamed of having said that he never considers another's comfort-he will never eat raw onlons; they would make his breath offensive. "But with all his faults, we love (part of him) still." If you banish him from the farming world you will create a blank that nothing else can fill. If we thus villify the hog, he may with perfect fairness, turn upon us and say "You lords of creation expect me to perform impossibilities. For ages you have made me the scavenger of your farms and homes. You feed me often with food that all other animals refuse; my home is anywhere and anyhow. No care is taken as to the laws of sanitation. I am lodged in the vilest hovels, often only partially covering me; unable to get away from filthy surroundings, I unavoidably become defiled, and then you call me a dirty pig. You fancy, because I happen to choose to wallow in the mud during a hot day, that my tastes are low. Well, it is often the only bath you allow me, and since you have robbed me of most of my natural protection against the stinging, tickling flies. I do this in self-defense. Give me a chance of being clean, feed me with wholesome food, give me good shelter and a dry bed and I will repay you a hundred fold for your

Piggy has good ground for his complaint. It has been too long the notion that anything was good enough for a hog. This has been the cause of untold loss. Many a poor cottager might save one-fourth to one-third of his outlay in producing his annual supply of bacon if only his pig was kept warm and clean, had his food given in a more wholesome form and with greater regularity. If growing is the object give as much exercise as it is convenient to obtain, with an occasional, if not a regular, bite of grass, a little salt and wood ashes within reach, failing wood ashes, ordinary cinders and ashes. If rapid fattening is the object, a mixture of meals with boiled potatoes and house scraps, together with perfect quiet. It is a serious mistake to use only meal, no matter what kind. A my is infinitely better.

Pig Management.

for the good of others-pooh, not to be

This treatment applies with force to one or 500.

Highest of all in Leavening Power. A. Latest U. S. Gov't Report

ABSOLUTELY PURE

DEADLY RIVALRY

Not Agree with Each Other.

A short time ago a couple from Texas came to the Auditorium hotel annex in Chicago and brought a cat with them. They were called away suddenly and forgot to take the cat along. The clerks and bellboys have grown fond of tabby, and as he came from Texas and was left behind they called him "Lone Star." "Lone Star" has been visiting the Auditorium proper a number of times and has been trying to become acquainted with the cat there, which is known as "Mike." "Mike," however, is a thoroughbred Yankee. He is unwilling to associate with the southerner, and he has been very discourteous to "Lone Star." Whenever the latter enters the doors of the hostelry "Mike" immediately chases him out. If "Lone Star" departs by way of the tunnel "Mike" chases him until he has gone half way through.

"Mike" has a decided antipathy to dogs. Whenever a dog comes into the botel he darts after him, and if the dog jump on his back and scratch him. Even buildogs run away from "Mike."

Tobacco's Triumph.

Every day we meet men who have apparently lost all interest in life, but they chew and amoke all the time and wonder why the sunskine is not bright and the sweet bird's song sounds discordant. Tobacco tases away the sleasures of life and leaves irritated nerve centers in return No To Hac is the casy way out. Guaranteed to cure and make you well and strong, by Drugglats everywhere.

Free Orean Travel. Many an impecunious foreigner on our shores, who wishes to visit his native land, and cannot afford even a steerage passage, has worked his way across the ocean as helper on the cattle ships. The only fee required is \$1 for an agent's commission. The applicant signs a written agreement to work his passage to England without compensation or claim for a return ticket. This method of obtaining free transportation is infinitely more agreeable than "stoking it" on a regular ocean liner.

Special Excursion to Hoston. The Knights Templar conclave will be held in Boston from Aug. 28th to 30th inclusive. Tickets will be on sale via the Nickel Plate road from Aug. 19th to 25th inclusive. Rates always the lowest; through trains; drawing-room sleeping-cars; unexcelled dining-cars; side trips to Chautauqua Lake, Ningara Palls, and Saratoga without additional expense. For additional information call on or address J. Y. Calahan, General Agent, 111 Adams street, Chicago, Il.

Yellowstone Park

Covers an area of about 3,350 square miles. It is an irregular volcante plateau, about 2,000 feet above the sea. Within this area are 10c geysers, more than 3,600 hot aprings and pools, besides paint pots, mud caldrons, lakes, canyons, etc. The Northern Pacific Railroad runs sleeping cars to the boundary of the park. Send six cents to Chas. S. Fee, St. Paul, Minn., for a beautiful tourist book that describes this renowned region.

The surprisingly low rates offered by the Nickel Plate road to Boston and return account Knights Templar conclave and a choice of forty routes. Tickets on sale Aug. 19th to 25th inclusive; longest return limit; service strictly first-class. Eleeping car space reserved in advance. For further information address J. Y. Calahan, General Agent, 111 Adams street, Chicago.

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A Gay Church Social. At a church social at Union Ridge W. Va., Monday evening, razors and revolvers were so energetically used that four men were killed and several others hurt.



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Medical Students. Endergraduates or ta-TIME IS MONEY! For particulars how ladies or gentlemen employed days me, in town or riom, qualifying for successfully practicing modi-cine, or how those with sufficient modical know edge can become inwist practitioners. Ad row, film. Monith University, 655 Van Buren Street,



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it is more than Wonderful how patiently provide suffer with carne. The pease and comfort by removing them with Hindercorus. Russians think it an honor to be bur ied in glass colling.

Health once impaired is not easily regained yet Parker's Ginger Tobic has atta and those results in many cares. Good for every weakness and distress.

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Piso's Cure for Consum Soneca St., Buffalo, N. Y. May 9, 1894.

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The worker-bee lives six | requested drone four months, the fely kind until If the Baby to Outstell teachers. Be sure and use that old and we'all grades, itt-Wissiow's Scotume Street for 1. The kindly Lack of physical culof parents, in dency to make school the schools, is sighted.

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The same fairy stories are common to the Hindoos, Arabians, Greeks, and



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Its excellence is due to its presenting in the form most acceptable and pleasant to the taste, the refreshing and truly beneficial properties of a perfect lasative; effectually cleansing the system dispelling colds, headaches and feven and permanently curing constipation. It has given satisfaction to millions and met with the approval of the medical profession, because it acts on the Kidneys, Liver and Bowels without weakening them and it is perfectly free from every objectionable substance.

Syrup of Figs is for sale by all druggists in 50c and \$1 bottles, but it is manufactured by the California Fig Syrup Co. only, whose name is printed on every package, also the name, Syrup of Figs. and being well informed, you will not accept any substitute if offered.



