

OPEN MIND ON FEEDS

To some folks, chicken feed is just, chicken feed. In deciding between two different mashes, or two scratch mixtures, price is the deciding fac-

Initial cost should not govern in deciding on poultry feed, any more than in deciding on other feeds. Instead, the deciding factor should be the value of service receivedjust as in buying shoes, shirts or shovels. Does the cheaper feed produce as many eggs, or at as low a price, as the higher priced feed? And how about health and vigor of fowls? Commercial feeds have in some instances suffered because of this short sighted attitude on initial cost, and unjustly so. The fact that in those cases the commercial product is not discriminated against on account of poor results is in itself a plain indication that the cost comparison has not been carried all the way through. To go from the general to the specific, a careful-ly supervised feeding trial on a large poultry farm shows results distinctly favorable to a commercial feed put out by one of the large feed manufacturers. The commercial feed was \$20 a ton higher than a standard home mixed formula. While the cost of feed was 27 cents per hen less for the home mixed ration, the hens fed commercial feed laid 18 cg i more per hen per year, and weie more healthy and vigorous than the ones fed the home mixed ration. Although it cost more to feed the hens on the commercial feed than on the standard, home mixed formula, there was an increased yield due to the lower mortality, larger eggs, better hatching eggs, better shelled eggs, etc., on the commercial feed. There was not so great a difference in the cost of feeding as there was in the price of feed, for the commercially fed flock consumed 7 per cent less mash than did the flock fed the home mixed ration. The hens fed the commercial feed laid 18 eggs more per hen per year. That increase in egg yield in a flock of 100 hens would mean 150 dozen a year. That increase, plus the decrease in mortality, better hatching, better eggs, etc., amounted to 56 cents greater returns per hen in those tests.

FEEDING COD LIVER OIL

The customary proceedure in feeding cod-liver cil is to feed about 1 per cent by weight of the total feed. If grain and mash are fed separately, about half and half, the mash should contain about 2 per cent cod-liver oil; or if the feed is in the form of an all-mash mixture, about 7 per cent. If the oil is fed in a moist mash or mixed with the grain and fed in a trough -or better still in the open box mash feeder on top of dry mashuse three tablespoonfuls to 50 layers, three ounces to 100 layers, or a pound or a pint to 500 lyers, daily When is cod-liver oil necessary? Here is another one of those many questions that cannot be answered once for all. A different answer is required for each poultry-keeper-in fact, for each of his flocks-de-pending upon housing, management and weather. Cther things being equal, the weather may vary so from one year to another that the answer for one year may not suit another. Hence it is obvious that at best, it takes a lot of good judg-ment and a clear understanding of the factors involved to solve the problem correctly. However, here are some general suggestions that may help: In the first place, if breeders are confined indoors, even if some direct suplications into if some direct sunlight gets into the house, it is safer to assume that cod-liver oil should be made a reg-ular part of the ration. On the other hand, if the birds have access to an outdoor range when weather permits, the use of cod-liver oil will depend upon how much the weather permits. This varies greatly in dif-ferent sections of the country, and with different years. In order to avoid the uncertainties of weather and other factors, there is a tendency on the part of many poultry-keepers to use a potent of many poultry-keepers to use a potent cod-liver oil from November to April, regardless of range, weather or man-agement, and in addition to this take every possible advantage of di-rect sunlight. This is probably the best and safest procedure. Some of the commercial feed manufacturers the commercial feed manufacturers are following this principle, and going even farther by using cod-liver oil or its equivalent in their feeds throughout the year, so this wital factor will always be present to mark the wrighter events. to meet the variable conditions their feeds may be required to serve. Whether an outdoor sun-parlor or sun yard will take the place of potent cod-liver oil, or best serve as a valuable supplement to it, is not yet known. So far as egg-shell texture is concerned, it appears that potent cod-liver oil is the best spe-

mash. The amount may range from 5 to 10 per cent by weight of the mash

Strange to say, neither of the foregoing factors alone proves effective in securing hatchability-their value depends upon their combina-For instance, if green feed tion. alone is added to a ration consisting of grains and byproducts, meat scraps and minerals, little or no improvement to hatchability will result. This is likewise true of milk, direct sunlight or potent cod liver oil. But add the proper combination of green feed or legume hay, or milk and cod liver oil, or direct sunlight, and you get results.

FERTILIZING BLUE GRASS

For some time sulphate of am-monia has been used as a fertilizer for permanent pastures in Germany with exceedingly profitable returns Last year the use of this fertilizer on blue grass pasture was given a trial at a western experiment sta-tion. It was applied at different rates, and at different t in cs throughout the growing season. The yield of the fertilized grass was fully noted as was its chemical com-position

position. Sulphate of ammonia is a nitro-gen fertilizer and all fertilizers con-taining nitrogen are very soluble in water and therefore leach out of the soil in a short time. For this reason it is not a good plan to apply heavy dressings at any one time. It is better to apply several smaller dressings throughout the growing season with a view of giving the grass roots an opportunity to ab grass roots an opportunity to ab-sorb most of each application be-fore any considerable amount of it finds its way into the drainage Inds its way into the drainage waters. One plot of blue grass pra-ture containing some red top was given a single dressing at the rate of 525 pounds of sulphate of am-monia per acre, while to another plot 1.050 pounds was applied per acre, but it was divided into six equal monthly portions. The smaller dressing of 525 pounds per acre gave excellent returns. It not only graatexcellent returns. It not only greatly increased the tonnage of the grass, but what was produced else contained more protein. Thus the fertilized plot yielded grass containing 21.7 per cent protein, as compared with that grown on unfertilized check plot carrying only 16.6 per cent. of protein. In other words the fertilizer increased the protein content of the grass over 25 per cent. Alfalfa hay is ordinarily rather cheap source of protein, but the fertilized blue grass proved to be fully two-thirds cheaper. It is possible that many of our Iowa blue grass pastures might be greatly im-proved by dressings of 100 pounds of sulphate of ammonia at each ap-

LIME FOR CLOVER

alfalfa in the spring. The speed and

Limestone spread over the soil even-

connection to very good advantage.

Either of these two methods of ap-

with a shovel.

up to the surface again.

necessary to lime their soils.

of about three months, while a pen of two-year hens was fed for liter-nating periods, with treated and untreated wheat. A flock of hens and cockerels was fed on treated

wheat for evening grain continu-ously for a period of two months. No ill effects were noted in any of

HERE'S AN IDEA

demoralized traffic in surrounding

towns, a farmer sent his 12 horses

to the nearest town, quartered them

in a stable and hired them at ex-

Following a heavy snowstorm that

these birds.

Limestone spread and properly workedinto the soil in the fall will be taken into solution by the soil moisrector of soil acidity in time to aid in getting a good stand of clover of

plication.

PEACH AND APRICOT

BUDS HURT BY COLD LINCOLN-(UP)-Apricot peach buds fared badly during the recent cold weather, Prof. C. C. Wiggans of the horticulture department of the university told the United Press. Other fruit suffered little damage he said.

Wiggans based his assertions on observations made at the agricultural college orchard where about 90 per cent of the apricot buds and 50 per cent of the peach buds have been killed outright. Apple, cherry and plum fruit buds examined at the experiment station showed relatively little or no damage he said. The expert refused to forecast the extent of the damage done to the crop but said, optimistically, that with favorable weather there was still a chance for a satisfactory crop of peaches and apricots.

CLAIMS DAMAGE **DONE BY BIRDS** Nebraska Farmer Says State Should Recompense Him for Crops Destroyed

LINCOLN. NEB .- (UP)-Claiming that migratory birds damaged his crops to the extent of \$3,432 and that the state protected these birds from his shotgun, Walter R. Kent, a Dawes county farmer, appealed to the supreme court Thursday for payment of the damage by the

Attorneys for Kent argued that the state has set aside large areas in that section of the state as game preserves and that the birds had collected in such large numbers that farmers could not protect their crops without breaking the law by shooting the fowls. The plaintiff contended also that if sufficient forage crops had been provided by the state within the game preserves, less damage would have been done. They charged that because of the state's neglect the birds escaped and came over to Kent's property. Kent claimed that in 1924 and 1925 he lost virtually all of a 220

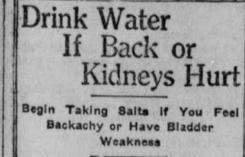
acre field of corn. The state denied any liability and

was upheld by the trial court.

SAYS NEBRASKA DUE

TO HAVE BAD ROADS LINCOLN-(UP)-That the state highways of Nebraska possibly will be in worse condition this spring than they have been for years was the prediction of Secretary Cochran of the department of public works recently upon his return from an inspection trip of the roads of western and central Nebraska.

Roads will probably will be in bad shape on account of the frost, which has gone down to a depth of ture and made available as a cor- I three to seven feet this winter. A condition is expected similar to that



O'NEILL FRONTIER

Too much rich food forms acids which excite and overwork the kidneys in their efforts to filter it from the system. Flush the kidneys occasionally to relieve them like you relieve the bowels, removing acids. waste and polson, else you may feel a dull misery in the kidney region, sharp pains in the back or sick headache, dizziness, the stomach sours, tongue is coated, and when the weather is bad you have rheumatic twinges. The urine is cloudy, full of sediment, the channels often get irritated, obliging one to get up two or three times during the night.

To help neutralize these irritating acids and flush off the body's urinous waste, begin drinking water. Also get about four ounces of Jad Salts from any pharmacy, take a tablespoonful in a glass of water before breakfast for a few days and your kidneys may then act fine and bladder disorders disappear.

This famous salts is made from the acid of grapes and lemon juice, combined with lithia, and has been used for years to help clean and stimulate sluggish kidneys and stop bladder irritation. Jad Salts is inexpensive and makes a delightful effervescent lithiawater drink which millions of men and women take now and then to help prevent serious kidney and bladder disorders. By all means, drink lots of good water every day.

Through a Glass Darkly

I have read of a glass kept in an idol temple in Smyrna that would make beautiful things appear deformed, and deformed things appear beautiful; carnal sense is such a glass to wicked men, it makes heavenly things which are beautiful to appear deformed, and earthly things which are deformed to appear beautiful .--Ohio State Journal.

The war has made table linen very valuable. The use of Red Cross Ball Blue will add to its wearing qualities. Use it and see. All grocers .- Adv.

Not the Owner

"What is Schmidt doing now?" "He opened a shop recently." "Successfully?" "No, he was caught."-Fliegende

Blaetter, Munich.

First Aid-Home Remedy Week

The Good Samaritan figures in the 1929 "First Ald-Home Remody Week" and is designated as the "First First Ald." This annual merchandising festival arrives with St. Patrick's Day, continues March 17-23 and marks the eighth anniversary of the plan dedicated to Drugdom by Stering Products,* Incorporated, In 1922 and immediately sponsored by the National Association of Retail Druggists. Seeing the great advertising and sales possibilities in the plan and

its helpfulness to humanity, the National Wholesale Druggists' Association has swung behind it with the enthusiastic suggestion that druggists use local newspapers, and providing them with suggestive advertising copy tied to the National slogan, "Fill That Medicine Chest Now!"

Coming at a time when housewives are thinking of house cleaning, the command has added phychological sales value, Secretary S. C. Henry of the N. A. R. D., out of long experience says: "No one knows better than the average retail druggist how much needless suffering there is because most people are neglectful in the matter of making provision for the hour of need which is sure to come when sudden illness or unforeseen accident calls for imnediate attention."

"Quick Relief Insurance" is the new definition of First Ald-Home Remedy Week's objective, and is thus bringing the nation's "Health Serv-Ice Stations" into closer every day life.

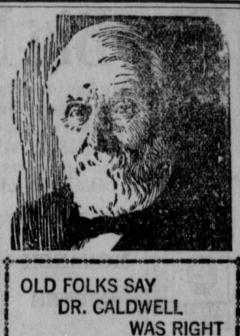
The Poet of the Air

Peter Supf is a German poet who has dedicated his talent to aviation, and so conspicuous has been his success that he has been given a general and permanent pass on any of the Lufthansa planes, in Germany or abroad. This was in recognition of his service to aviation through his verse. Supf was a flyer himself in the World war, and it was while flying over battlefields in France with one hand on the control and the other on a machine gun that his inspiration came to sing of flying. Later he was shot down and severely wounded, and it was while he was on his sick bed. that many of his successful verses were composed. Supf has done other writing and editing, but his main labor and his main interest has remained in aviation .- Pathfinder Magazine.

Facing the Music

"What do they mean by the 'witching hour'?'

"Don't you know? That's the hour when the wife greets you with 'Which story is if this time'?"-Tit-Bits.



The basis of treating sickness has not changed since Dr. Caldwell left Medical College in 1875, nor since he placed on the market the laxative prescription he had used in his practice.

He treated constipation, biliousness headaches, mental depression, indigestion sour stomach and other indisposition entirely by means of simple vegetable entirely by means of simple vegetable laxatives, herbs and roots. These are still the basis of Dr. Caldwell's Syrup Pepsin, a combination of senna and other mild herbs, with pepsin. The simpler the remedy for constipa-tion, the safer for the child and for you. And as you can get results in a mild and as fa way by using Dr. Caldwell's

and safe way by using Dr. Caldwell's Syrup Pepsin, why take chances with strong drugs? A bottle will last several months, and

all can use it. It is pleasant to the taste, gentle in action, and free from narcotics. Elderly people find it ideal. All drug stores have the generous bottles, or write "Syrup Pepsin," Dept. BB, Monticello, Illinois, for free trial bottle.



Marvelous Climate - Good Hotels - Tourist Camps-Splendid Roads-Gorgeous Mountain Views. The wonderful desert resort of the West



For Cuts, Burns **Bruises**, Sores Try HANFORD'S BALSAM OF MYRRH All dealers are authorized to refund your money for the first bottle if not suited.

Haircuts Donated

Needy schoolboys get free haircuts in Santiago. Upon invitation of the barbers' union they began recently to go in crowds to the barbers' school. where they were shingled by student

HENS NEED MILK Skim milk or buttermilk-liquid, condensed or dried-may well be included in any ration intended for promoting hatchability, not only because milk is a valuable source of proteins, minerals and vitamins, but because it serves as a partial substitute for green feed. Liquid skim milk or buttermilk is best fed as a drink, instead of water. When the supply will not permit this, wa-ter also can be kept before the birds. Liquid milk also is valuable in the preparation of a moist mash,

in the preparation of a moist mash, when such is employed. Condensed skim milk or butter-milk paste can be fed in a variety of ways. It can be pasted on the walls of poultryhouse, but a better way is to put it on top of the dry mash in the open box mash feeder Quantity may range from two to four pounds daily, per 100 birds.

Dried skim milk or buttermilk is fed as a regular part of the dry

A SHIPPING HINT

Just what is gained by stuffing animals to make them weigh heav-ier at the stockyard scales? Heavier ler at the stockyard scales? Heavier weights at home generally mean excessive shrinkage, so that market weight is a disappointment. In winter, better give hogs 75 per cent of a normal feed previous to ship-

BUT THEY USE 'EM

The attitude of some farmers to-ward the good roads problem is like the lazy man whose roof leaked. When it rained he could not fix it, and when the weather was good a Poof was not needed

in states farther north, where the winters are more severe.

Mr. Cochran explained that spring efficiency with which it takes efthaws are expected to affect gravel fect depends upon the size of the roads in particular. Unless thaws particles applied, the evenness with come slowly the water forming on which it is sprend over the surface of the ground and the way th? top of the ground will accumulate just under the gravel crust, as it soil is worked after lime is spread Finely ground limestone, experience cannot be absorbed by the hard shows, is preferable to coarse parti-cles because it has a higher neufrozen ground underneath. As the ditches at the side of the highways are frozen deeper than the road it-self, this water cannot drain in that tralizing value per unit of weight and is less likely to lie usclessly in the soil over a period of years. Un-less the price difference is too direction.

The usual result that the moisture great, limestone which will pass through a screen with 20 meshes to the inch is desirable. In sections where farmers are able to quarry limestone from their own land, seeps to a low spot in the road, where it is hidden under the gravel crust. When a heavy vehicle passes over such a spot, it sinks in for some depth, leaving a large depreslimestone crushers play an import-ant part in making the product suitable for agricultural purposes sion. If the ground thaws evenly and gradually, the condition described will be less severe, Mr. Cochran said. ly and uniformly has a much better opportunity to efficiently neutral.zz its acidity. Lime sowers or endgate lime spreaders can be used in this The state engineer looked over a number of bridges over the Platte in the western part of the state, and said there is little to worry about in that section. A wide channel has been found and the water is plication eliminate unnecessary waste and make a ton of lime go further by spreading it evenly over the entire surface besides eliminat-ing a great deal of hard work and extra time required to scatter it with a showed draining properly in practically every instance. The only danger of bridge damage on account of ice along the Platte is from Columbus east, according to Mr. Cochran.

MISSIONARY FEDERATION WILL MEET AT CANTON

The usual practice is to disk and harrow limestone into the soil after its application. Plowing it under throws it too far beneath the sur-face to be effective, affording op-portunity for much of it to leach away CANTON-A two-day session of the executive board of the Women's Missionary Federation of South Dakota was held here next Wednesday and Thursday to plan the work and and be lost before it is turned back program for the district meeting of the federation which will be held in The application of limestone has aided in making alfalfa the most profitable crop on the farm in many

Canton, June 5 to 12. The officers of the federation are sections. Three tons of alfalfa per acre, worth \$20 a ton, is not un-common from land that had pre-Mrs. A. E. Johnson, of Watertown, president; Mrs. Henry Solem, of Lennox, vice president; Mrs. John viously been considered worn out A limestone and sweet clover com-G. Berdahl, of Sioux Falls, secrebination has doubled corn yields for tary; Mrs. N. N. Gullickson, of Sioux many farmers, boosting them from 35 to 70 bushels. Limestone and legumes are probably the most con-sistent land reclaimers in existence Falls, treasurer; Mrs. G. C. Christopherson, of Sioux Falls, and Mrs Eli Lewison, of Canton, members at today, yet many farmers feel that they cannot afford the cash outlay large.

WOMAN PASSES AWAY SPRINGFIELD-(Special) - Mrs

Annis Radway, 89 years old, died at TREATED WHEAT FOR CHICKS The question comes up occasion-ally as to the danger of feeding to her home in Springfield, Wednesday, and thus another early pio-neer has gone. Mrs. Radway was born in Montreal and came with poultry wheat that has been treated with copper carbonate. Experiments made recently scem to indicate that the copper-carbonher parents to Wisconsin in early childhood

ate-treated grain is not poisonous to poultry when fed in ordinary quantities. In these experiments, one pen of young birds was fed solely on treated wheat for a period In 1877 the Radways came to Springfield and have lived here since then, part of the time on their farm west of town and part in town Two children survive. They are Harry Radway, of Haakon county, and Mrs. Effie Bridgeman of Platte. The funeral services will be held Friday in the family residence.

WILL ATTEND DISTRICT MEET OF AMERICAN LEGION

CANTON-(Special-Dr. L. L Parke and R. L. Holliston will attend the district convention of the American Legion at Dell Rapids, March 12, as delegates from the local post. The auxiliary will be represented by Mrs. L. L. Parke, president, and Mrs. Clarence Hale, secretary.

tremely good rates to grocers, mer-chants, millers, bakers and others who found it impossible to make necessary deliveries. Farmers who The auxiliary quartet consisting of Mesdames M. P. Juel, H. T. Aker, wish to make some extra money in the dull season and who have horses standing idle, should keep their eyes G. P. Hirme: and Eddie Lanfel and open. Better for the horses to be at work than idle. But don't ne-Miss Palma Anderson, accompanist, will sing several selections on the glect such important work as get-ting up wood, hauling lime, etc., just to earn a few dollars. program at the convention.

Strategy-the science of inducing I fan gets left. others to walk into your trap.

barbers. Thirty youngsters were sent in one day by the principal of their It's a cold day when the palm leaf

"Watch their Weight Increase"

Says One of America's Greatest Children's Physicians ...

"When you serve children This Wonderful Health Food"

66 TARO syrup is the ideal food for the under-N weight child," writes an eminent children's physician.

And he explains why:

Two tablespoonfuls of Karo in a glass of milk improves its taste and doubles the food value of the milk.

There are 120 calories per ounce in Karowhich means Karo is a great energy foodcontaining nearly double the energy value of eggs

and lean beef, weight for weight.

What is good for children is splendid for the entire family.

Keep Karo on the table-serve plenty of it-on pancakes, biscuits, waffles.



