

TO BALANCE RATIONS.

Economy in feeding live stock, even in the face of unprecedented feed crops, was never of greater importance than to-day, in the opinion of specialists of the United States Department of Agriculture. Not only as a conservation measure but also to insure the quickest and most efficient production of meat is the wise selection of feeds and mixing of rations of such importance now. That is the reason specialists of the department have prepared for feeders a simple and workable method of calculating well-balanced rations. The method is described in detail in Bulletin 637 of the department "A Method of Calculating Balanced Rations."

To reduce the problems involved in selections of feeds on the basis of their nutritive values—which are measured in terms of protein, carbohydrate, fat and so on—in order to make them easy to apply in everyday farm feeding has not been simple. Yet it is believed that the new method will greatly aid any farmer who has a fundamental knowledge of feed values properly to mix farm rations. Balancing a ration by the directions given is a simple matter of multiplication and division. Carefully prepared tables, which are accompanied by the necessary directions for using, show the excess protein per pound for different protein feeds when used in rations of various nutritive ratios, and the protein deficiency per pound of various carbohydrate feeds as compared with rations of specified nutritive ratios. By the use of these tables and others which show cost values, the feeder may determine by fixed rule the most economical proportion in which feeds may be mixed to give a ration of desired nutritive value.

It is explained that the protein, carbohydrate, and fat contents of a feedstuff are not the only factors affecting its feed value. Proteins differ in their nutritive qualities, while some substances not included in the classes mentioned are necessary to the proper maintenance of the bodily functions. The palatability and succulence of a feed has much to do with its value as a feed. Many feed stuffs have physiological effects entirely apart from their nutritive qualities. A ration may be perfectly balanced from the standpoint of relative content of protein and energy producers, and yet be quite impracticable, the specialists point out, because it is too bulky or too concentrated. Consideration of a feedstuff or a ration based only on chemical composition, therefore, is to be taken merely as a guide, it is explained, to be followed in the light of all knowledge obtainable about animal nutrition.

The selling price of a feed is not a reliable guide to its relative feeding value. The carbohydrate feeds—corn, oats, barley, kafir, and various others—and the protein feeds—cottonseed meal, tankage, and brewers' grains—are found on the market at various prices. The feeder desires to know, with certain given prices, which is the cheapest feed to buy—the true value of a bushel of oats, rye, or barley for feed when corn is worth 80 cents a bushel. He wishes to know the value of a ton of brewers' grains, linseed meal, or bran when cottonseed meal is worth \$30 a ton and corn \$1 a bushel. By the use of the tables presented in the bulletin, which show comparative costs based on nutritive values, these questions can be answered.

SILOS CALLED THE FRUIT CAN OF THE HOUSEWIFE.

The silo bears the same relation to the dairy farmer that the fruit can does to the housewife, says Prof. P. M. Brandt of O. A. C. While the silo in Oregon is a comparatively new thing the success with which it has been used indicates that it will soon become indispensable to the dairy farmer in Oregon as it has to the live stock farmers of the middle west. It enables the dairyman to immitate more closely summer conditions throughout the year. The most economical production of milk is obtained when these conditions are maintained.

Dairy cows naturally produce at their best during early summer. At that time they have in grass a balance ration, an abundance of it, and a ration that is palatable and succulent. During the dry season of late summer and during the winter these conditions can easily be maintained by any dairyman, except the succulence and the palatability. These can only be obtained through the use of roots, silage crops, kale or silage. A pound of digestible dry matter in a succulent feed is produced more cheaply in the form of silage than in any other way known at the present time. One has only to talk to a man who has a silo to find out whether it pays to have one. The

greatest recommendation of the silo is the enthusiasm of the silo owner. Maximum production can be obtained throughout the year at least cost when a silo is on the farm. It is as valuable for keeping up the milk flow through the late summer as it is through the winter months. The practices followed at the Oregon Agricultural College at Corvallis is to fill the silos in June with oats and vetch. This is fed during July, August and early September. Then the silo is filled with corn which is fed through the winter. The summer silo is nearly as important as the winter silo.

A silo will pay interest as surely as will a liberty bond and when all efforts are being turned to conservation and greater production it is as patriotic to build a silo as it is to buy a liberty bond, or better still buy a bond and use it to buy a silo. The silo will pay for them both. Prepare your silo plans now, plant your silage crop and build your silo soon.

KNOWS WHEN THE WAR WILL END.

Absolute knowledge I have none, But my aunt's washerwoman's sister's son
Heard a policeman on his beat Say to a fellow on the street,
That he had a letter just last week Written in the finest Greek,
From a Chinese coolie in Timbuctoo, Who said the niggers in Cuba knew
Of a colored man in a Texas town Who got it straight from a circus clown,
That a man in Klondike heard the news
From a gang of South American Jews
About somebody in Borneo Who heard a man who claims to know
Of a swell society rake Whose mother-in-law would undertake
To prove that her husband's sister's niece
Had stated in a printed piece That she has a son who has a friend
Who knows now when the war will end.
—Exchange.

MOOSE NOMINATION

The Moose Lodge of Harney County held their regular meeting last Monday February 25th and all the regular business that came before the lodge was promptly disposed of and they look forward to the nomination and election of new officers for the current year.

Nomination for officers takes place the second meeting night in March on Monday March 11th the officers elected at the following meeting Monday night March 25th 1918.

Don't forget the time and dates as with the railroad building in and large development in this country that is bound to come with this long expected improvement will not only increase our membership roll, but will also strengthen and maintain one of the best and most beneficial fraternal orders for the Brotherhood of the world.

Emblematic medals have been received for disposition among our boys who have gone to war to be worn by them for the immediate identification of the members who are sacrificing their lives for the noble cause.

LOYAL ORDER OF MOOSE, No. 1228 Burns, Oregon.

The Red Cross Bulletin of the Northwest Division recently published the membership figures following the Christmas Drive and the total membership of the Northwest Division is now over 800,000. Harney County has a total of 2,536 which places it well up in the list as making good. In proportion to population this county stands well compared to the other parts of the country as shown in this list.

PRESBYTERIAN CHURCH

Weston F. Shields, Pastor. Preaching at 11 A. M. Subject, "Leadership of The Future." Preaching at 7:0 P. M. Subject, "Two Remarkable Bible Stories." Sunday School at 10 A. M. Subject "Jesus Bringing Peace." Christian Endeavor at 6:30 P. M. Subject, "Christian Duty and Privilege." Prayermeeting every Thursday at 7:30 P. M. All are cordially invited.

"It Sure Does The Work"

Mrs. W. H. Thornton, 3523 W. 10th St., Little Rock, Ark., writes: My little boy had a severe attack of croup and I honestly believe he would have died if it had not been for Foley's Honey and Tar. I would not be without it at any price, as it sure does the work." Best remedy known for coughs, colds, whooping cough. Sold by Reed Bros.

CHRISTIAN SCIENCE SOCIETY

Services at 11:00 o'clock. Subject of Lesson-Sermon next Sunday: "Christ Jesus." The Testimonial Meeting, Wednesday at 7:30 P. M. The reading room in the church Edifice, is open on Tuesday and Friday from 2 to 4 P. M. Sunday School meets on Sunday at 10 o'clock. Pupils may be admitted to its classes up to the age of 20 years. The public is cordially invited to the Church Services and to the Reading Room.

WEEKLY MARKET LETTER

February 26, 1918

Today's market opened with a very light receipt in all lines, the strength of yesterday's market continuing.

Steers of the best classes are selling fully steady with last week's sales. Cow stuff, however, a little slow and, in some instances is lower, especially for medium and poorer classes. There has been quite a sprinkling of very good stuff on the market with a preponderance of mediocre stuff.

The calf market is strong, too strong in fact for producers who ship their calves, dressed.

The hog market is very good, fully 25c to 35c above last week's market. Hogs sold as high as \$17 to 17.10 for strictly prime offerings. The market is ruling strong.

The sheep market is steady. Receipts are light and the demand fair. No change in price.

CATTLE—Med. to choice steers, \$10.35-11.00; Good to Med. Steers, 9.25-10.35; Com. to Good Steers, 8.00-10.00; Choice Cows, & Heifers, 8.00-9.50; Com. to Good Cows & Heifers, 6.75-8.15; Canners, 4.25-6.25; Bulls, 5.00-8.00; Calves, 7.50-12.00 Stockers & Feeders, 6.50-9.50.

HOGS—Prime light, \$14.85-17.00 Prime Heavy, 16.50-16.85; Pigs, 14.00-15.25; Bulk, 16.85.

SHEEP—Western lambs, \$15.00-15.50; Valley lambs, 14.40-15.00; Yearlings, 13.00-13.50; Wethers, 12.50-13.00; Ewes, 9.00-12.00.

A Short But Strong Statement

Women with backache, rheumatic pains, sore muscles, stiff joints or other symptoms of kidney trouble should read this statement from Mrs. S. C. Small, Clayton N. M.: Foley Foley Kidney Pills have done me more good than all other medicines. They strengthen weak kidneys and banish sleep-disturbing bladder ailments. Sold by Reed Bros.

NAZARENE CHURCH

Rev. Lyman Brough, Pastor. A cordial invitation is extended to you to attend our services. The hours of the service on the Sabbath are as follows: Preaching at 11 A. M. Sabbath School at 10 A. M. Young Peoples' meeting at 6:45 P. M. Song service at 7:30 P. M. Preaching at 8:00 P. M. Prayer meeting Wednesday at 7:30 P. M.

HOLY FAMILY CHURCH (Catholic)

Cor Miller and C. Sta. Sunday High Mass at 10:30 o'clock Week days Mass at 7 o'clock. Instructions for children Saturdays at 9 A. M. Rev. Father Francis, O. F. M. Rector.

Cut This Out - - It Is Worth Money

DON'T MISS THIS. Cut out this slip, enclose with five cents to Foley & Co., 2835 Sheffield Ave., Chicago, Ill., writing your name and address clearly. You will receive in return a trial package containing Foley's Honey and Tar Compound, for coughs, colds and croup, Foley Kidney Pills and Foley Cathartic Tablets. Sold by Reed Bros.

We will do your job printing.

OVER THE TOP!

Uncle Sam says we must put our boys "Over The Top." To do this we who stay at home must do our part, which is CONSERVATION.

Just now we are especially asked to conserve fuel. The only way to conserve fuel is to Burn Less. This is a difficult matter with the old fuel-eating stoves to be seen in so many homes.

You don't have to make any special effort to save fuel if you are using one of our famous Charter Oak Stoves and Ranges. They just naturally live and thrive on less than others, and gives you every ounce of heat energy there is in your fuel.

You need a Charter Oak Stove and Range!

Come in and see our attractive prices.

I. S. GEER & CO.

J. J. Donegan, Pres. Achie McGowan, Vice-Pres.

G. N. Jameson, Secy. J. E. Loggan, Treas.

HARNEY COUNTY ABSTRACT COMPANY

(Incorporated)

Abstracters :: Fire Insurance

Mr. Land Owner—How is the title to your land? Do you know? Inquire of us and find out

N. BROWN & SONS

Brown's Satisfactory Store

QUALITY MERCHANDISE

Walk Over Shoes

Stetson Hats

Bon Ton Corsets

Burns, Oregon

We carry goods advertised on the "Home Products Page"

The Brunswick Phonograph

at The

WELCOME PHARMACY

Come in and see them and hear their beautiful violin like tone

They play any Disc Record made

The price is within the reach of all

On display and being demonstrated at the

WELCOME PHARMACY

RODNEY DAVIS

House Painting Paper Hanging

and Decorating

Calcimining

Hardwood Finishing

Fresco Painting

Estimates furnished on application.

Samples shown

GIVE HIM A CHANCE

EATS TO YOUR ORDER

We are ready at all times to serve meals to your order, from the full course dinner to the most "conservative" of lunches.

Can supply you with "wheatless" or "meatless" meals at your pleasure—and either will be appetizing and nourishing.

Mace's Restaurant

Ford
THE UNIVERSAL CAR

FORD IS STILL MAKING CARS

Rumors to the contrary are untrue. The ever increasing demand for Ford Cars makes them hard to get.

Buyers of Ford Cars for the past year have been compelled to wait their turn.

We are taking orders every day and if you are wise you will see us at once about your car.

No time to lose now if you are contemplating the purchase of a car in the early spring.

BURNS GARAGE

BURNS AND CRANE