SUGGESTIONS FOR COW RATIONS

(BY COUNTY AGENT McVEAN)

The following are suggestive dairy-cow rations. They are not perfect since they are not computed to meet the need of a particular herd. The quality of the roughages, the amount available, the size of the cows, their condition, the quality and quantity of milk all are considered in computing balanced rations. However, these mixtures should prove economical and effective in most herds. A main object in submitting the rations is to suggest kinds and amounts of protein supplements needed with the various roughages. Remember it is sound economy to add one or more protein rich feeds to the farm raised feeds which are lacking in an adequate supply and quality of protein. Protein is the limiting factor in milk production. Supply protein if you want economically produced milk.

Sample Grain Mixtures for Use with Different Classes of Roughages.

With Alfalfa or Soybean Hay and Fodder

1. 200 lbs. corn and cob meal, 100 lbs. ground oats or standard wheat bran, 50 lbs. choice cotton seed meal—Equivalent of 16 per cent. protein mixture.

2. 150 lbs. corn meal, 150 lbs. wheat or barley, 150 lbs. ground oats, 100 lbs. 32 per cent. mixture, Better than 16 per cent. mixture.

3. 400 lbs. corn and cob meal, 300 lbs. wheat or oats or barley, 50 lbs. oil meal (linseed O. P.) or ground soybeans, 150 lbs, choice cotton seed meal or soybean cake meal or peanut cake meal—Better than a 16 per cent. protein content.

4. 200 lbs. corn or corn and cob meal or barley or wheat, 100 lbs. ground oats or Standard wheat bran, 50 lbs. choice cotton seed meal or peanut cake meal or soybean meal or linseed oil meal—A 15-16 per cent. protein mixture adequate with legume hay and silage or fodder.

With Alfalfa and Silage or Fodder

5. 300 lbs. corn and cob meal, 300 lbs. wheat or oats or barley, 100 lbs. soybean meal or peanut cake meal, 150 lbs. cotton seed cake meal—20 per cent. protein mixture.

With Alfalfa and Silage or Fodder

6. 200 lbs. corn and cob meal, 300 lbs. wheat or oats or barley, 100 lbs. choice cotton seed meal, 100 lbs. ground soybeans—20 per cent. protein equivalent.

7. 200 lbs. corn and cob meal, 200 lbs. wheat or oats or barley, 200 lbs. standard wheat bran, 100 lbs. linseed oil meal, 100 lbs. peanut cake meal or choice cotton seed meal, ground soy beans or soybean meal, 200 lbs. gluten feed—20 per cent. protein equivalent.

With Timothy or similar hay and corn fodder

8. 200 lbs. corn and cob meal, 100 lbs. wheat or oats or barley, 125 wheat bran, 200 lbs. gluten feed, 100 lbs. peanut oil cake meal or ground soybean, or soybean cake meal, 100 lbs. cotton seed meal, prime—24 per cent. mixture.

Any farmer having other feed stuffs will be aided in making most effective use of such feeds if he will notify the County Agent.

Next week the costs of these mixtures will be compared.

Comments Regarding Feeds and Feeding

Feed 1 lb. grain mixture to 3 lbs. of milk for Guernseys, 3 1-2 for Holsteins 1-3 of grain mixture should be of protein rich feeds of two or more sources if legumes are not available as roughages.

Feed Daily

2 lbs. of dry roughage per hundred weight of cow or 1 lb. dry roughage and 3 lbs. silage per hundred weight.

Root crops 11 lbs. equal 1 lb. grain.

Beet Pulp—soaked 12 hours in advance is a good source of succulence.

Bran, palatable, bulky, laxative, cooling, rich in mineral matter, phosphorus.

Molasses palatable, appetizing, rich in mineral matter (use cane molasses not sugar beet molasses.)

Cotton Seed meal, constipating, produces light colored hard fat, not good for growing heifers. Often cheapest source of protein—adds more to fertilizer value of manure than any other feed.

Oil Meal (linseed meal O. P.) a fine source of protein laxative, soft fat producer, relatively expensive.

Other Sources Of Protein

Soybean cake or meal (fat extracted) Peanut oil cake meal.

Gluten feed, Gluten meal, Dried Brewers grain-bulky, Dried distillers grain, (corn preferable to rye).

Ground soybeans, make soft butter-feed with cotton seed meal).

Cocoanut meal good, makes hard fat in cold weather, equivalent to gluten fed for cows.

Dairymen cannot feed fat into milk. Percentage of butter fat and produuction ability are inherited. Man cannot change either but can supply feed, care and management to allow them maximum production conditions.

Maintenance requirements of a dairy cow use one-half of a full ration while one-half is used for production, but if the cow receives but three-quarters of a full ration—production is cut in half. If a cow is half fed she can produce but little milk and the cow tears herself apart in effort to make milk.

TOUCHDOWN IN LAST 2 MINUTES

Washington College's eleven again threw a State rival into the depths of despair and just missed its first victory when it battled Mount St. Mary's through to the last one and a half minutes of play before bowing by a 7-to-0 score.

The Shoremen unearthed surprising defensive strength and more than held their own against the Emmitsburgers. Twice the Chestertown eleven plowed down to within the visitors' 20-yard strip, only to waver at the scoring chance.

A Mount St. Mary's punt was downed about the Washington 20-yard line, with only ninety seconds to go. Then Giraitis' effort to again kick out of danger struck Nicholson and bounded straight into the air, about 15 years up the field. But a penalty nullified even this short gain and the Shoremen again were with their backs to the wall.

On the next play, Hopkins, Mount St. Mary's halfback, skirted left end for the lone touchdown. Lynch then converted the extra point on a placement.

Mount St. Mary's.		Washington.
Zubris	F.B.	Giraitis
Boggs	L.E.	Gamber
Ferko	L.T.	Ward
Lelaney	L.G.	Nicholson
Kennedy	.C.	Groswith
Gallant	R.G.	Dickerson
Edelen	R.T.	Blizzard
Lynch	R.E.	Carozza
Delaney	Q.B.	Robinson
Puszyuski	L.H.	Dobkins
Hopkins	R.H.	Reinhold

Mount St. Mary's..0 0 0 7 —7

Score by quarters:

Washington .....0 0 0 0—0

Touchdown — Hopkins. Try for point—Lynch (placekick). Substitutions — Washington, Plummer for Carozza, Jones for Ward, Ward for Jones, Lord for Ward, Baker for Reinhold. Referee—Bowman. Umpire — Bradley. Head linesman — Crothers. Field judge—Jack Ogden. Time of quarters—15 minutes.

COMMISSIONERS VISIT SALISBURY

At the Shore County Commissioners meeting at Salisbury last week a resolution was adopted to draft a measure to be presented at the 1933 session of the Legislature which would require the county school superintendents to publish annually an itemized statement of all expenditures for all purposes and the total revenue received by the board from the county during the fiscal year.

Horace F. Clark, secretary of the association, was instructed in another resolution to file a protest with the Maryland Public Service Commission against the proposed abandonment by the Baltimore and Eastern Railroad of a section of its main tracks between Hurlock and Salisbury, including the bridge across the Nanticoke river at Vienna. The company's petition to abandon that portion of its lines will be heard before the commission on October 28.

The association accepted an invitation to hold its annual meeting in Centreville next April.

At the morning session the eighty county officials heard State Comtroller William S. Gordy, Jr., advocate the housing of all county governmental departments in one modern building, clean and adequate jails, establishment of proper juvenile courts and central almshouses.

Mr. Gordy, in welcoming the association members, stressed the soundness of Maryland's financial position.

"The State of Maryland today occupies an enviable position," Mr. Gordy said. "This State has a funded debt of $33,000,000, representing only 1.1 per cent. of its taxable basis of $3,000,000,000."

Representative T. Alan Goldsborough, of the First Maryland district said that "after the establishment of the $500,000,000 national credit corporation the closing of any banks must be attributed solely to errors or inefficiency in the management rather than the economic of financial scituation."

Mr. Goldsborough is a member of the House Banking and Currency Committee and attended the President's conference in Washington on October 6, from which originated the credit corporation plan.

Other speakers were Former State Senator Legg, Centreville; Jesse D. Price, chairman of the State Tax Commission; C. E. Grubb, American Road Builders' Association; Albon P. Shaw, New Castle county, Delaware, and John A. Bromley, Anne Arundel county, road engineer.

The officials were luncheon guests of the Wicomico county board.

M. Clifford Smith, Salisbury, president of the association, presided.

Valuable Mineral

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Supreme Joy in Giving

A beneficient person is like a fountain watering the earth and spreading fertility; it is therefore delightful and more honorable to give than receive.—Epicuris.

Mrs. Polk the First

The first President's widow to draw a pension from the United States was Mrs. Polk. The act of March 31, 1882, provided for a pension of $5,000.

IN MEMORIAN

In sad but loving memory of Jacob Chamberland, who went to his reward October 28, 1930.

He little thought when going to sleep
He would not wake any more,
That he in death so soon would keep,
And leave us here tomorrow
One year has passed since that sad day,
The one we loved was called away,
God took him home—it was his will,
But in our hearts he liveth still.

Brother-in-law and Sister-in-law,
MR. AND MRS. V. VOSS.

In memory of my dear father, Jacob Chamberlain, who departed this life October 28, 1930.

No one knows how much I miss you,
No one knows the bitter pain,
I have suffered since I lost you,
Life has never been the same,
In my heart your memory lingers,
Sweetly, tender, fond and true,
There is not a day dear father,
That I do not think of you.

By his daughter,
LILLIE BIGGS.

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How is your roof? Is it ready for the rigors of Winter? This fine weather is the time to prepare them for the days that are to come. We have Roofing as low as $1.25 per roll. This is a good one ply roofing. Then we have the better grades at corresponding prices. Or it may be that your roof only needs a good coating. Try our

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Chestertown, Maryland

SCHAUBER'S milk is go od for mother, too. It's a fine food for the growin g-ups and the grown-ups. Many authorities agree that the child should have at least a quart of PURE MILK each day.

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ADAM SCHAUBER—CHESTERTOWN

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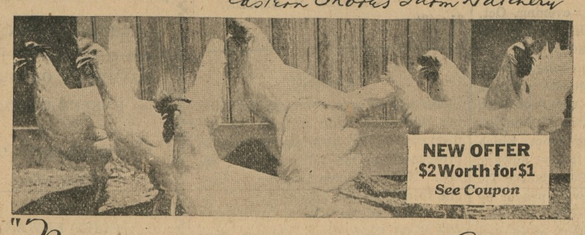
Eastern Shores Farm Hatchery



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