DAIRY RATION B

Output Interpretation and Adjusted Analysis

Michigan State University • Cooperative Extension Service 1P-5M-2:76-ST, Price 15¢, Single Copy Free

Name	
Address	
Phone	Date
I Informatio	n Base:
Ration:	based on the following information:
Animals:	Lot No
milking co	ws dry cows
heifers	dairy steers
Average weig	ght:
Average prod	luction:
Average butt	erfat test:
Expected dai	ly gain:

I Limitations and specie		ents:		<u> </u>	N. C.	- 12	Charles and
			,		×i		
				2-15	A Charles		a far
II Feed Prices Used:							
Feeds available	Use more	\$ per cwt.	Use less	Feeds available	Use more	\$ per cwt.	Use le
rotein supplement 1					-	-	-
oybean meal Fround shelled corn							
ligh moisture corn							
Iay 1					-		
Corn silage 1 M salt							
Sone meal						*	
Dicalcium phosphate					-	-	
					-		
V Recommended Ration							
r <mark>e-mix Batch (If pre-mix req</mark> ngredient used	uestea):			Pounds ingredient per batch		Adjusted a	nalveic
ngredient used				Tounds ingredient per baten		rujusted ai	iiaiysis
	_						
•				,			
				5			
ngredients used Pre-mix (as formulated above	e)			Pounds ingredient per batch		Adjusted a	
	Tota	l pounds p	er batch				
Feed per Head Daily	Tota	l pounds p	er batch	Pounds			
		l pounds p	er batch				
Concentrate or complete feed		l pounds p	er batch	Pounds	_	Adjusted a	nalysis
Concentrate or complete feed	l formula		er batch	Pounds	_	Adjusted a	nalysis
Concentrate or complete feed	l formula		er batch	Pounds			
Concentrate or complete feed	l formula		er batch	Pounds			
Concentrate or complete feed Feeds Fed Separately:	l formula		er batch	Pounds			
Concentrate or complete feed	l formula		er batch	Pounds			
Concentrate or complete feed Feeds Fed Separately: Intake Information:	d formula			Pounds Pounds fed per head per day Grams P fed per head pe	r day:		
Concentrate or complete feed Geeds Fed Separately: Intake Information: Counds dry matter fed per head per	d formula ad per day:_ er day:_			Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total ratio	r day:		
Concentrate or complete feed Feeds Fed Separately: Intake Information: Counds dry matter fed per head per dead per head per he	ad per day: per day:			Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total rational percent protein in concentration.	r day:		
Concentrate or complete feed Teeds Fed Separately: That Intake Information: Counds dry matter fed per head per Counds protein fed per head per Crams Ca fed per head per de	ad per day:_er day:			Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total ration Percent protein in concern Ration cost per head per	r day: on: ttrate: day:		
Concentrate or complete feed Ceeds Fed Separately: Counds dry matter fed per head per dounds protein fed per head per dounds of additional concentrations.	ad per day:_er day:per day:ate required	for an add	litional 10	Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total rational percent protein in concentration.	r day:		
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Intake Information: ounds dry matter fed per head per ounds protein fed per head per ounds of additional concentrations of this additional 10 pour djusted Analysis	ad per day:_er day:er day:	for an add	litional 10	Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total ration Percent protein in concern Ration cost per head per pounds of milk: ———————————————————————————————————	r day: on: day: day:		
Intake Information: Counds dry matter fed per head per ounds protein fed per head per ounds of additional concentrations of this additional 10 pour djusted Analysis	ad per day: er day: per day: day: ate required ands of conce	for an add	litional 10	Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total ratio Percent protein in concentration cost per head per pounds of milk:	r day: on: day: day day		
Concentrate or complete feed Ceeds Fed Separately: Counds dry matter fed per head per dounds protein fed per head per dounds of additional concentrations.	ad per day:er day:eate required ands of concertad per day:er day:er day:er day:er day:er day:er day:er day:er	for an add	ditional 10	Pounds Pounds fed per head per day Grams P fed per head per Percent fiber in total ratio Percent protein in concentration cost per head per pounds of milk: ———————————————————————————————————	r day: on: day: day r day:		

cents per cow per day

Cost of this additional 10 pounds of concentrate:

Explanation

Section I. Information Base

This section contains an identification of the ration and indicates for which class of animals the ration has been balanced. This section also includes other information about the animals such as weight, production, etc. This information should help you more accurately feed your animals, realizing that animals that are larger or higher producers than the average may require more than the recommended amount of feed.

Section II. Limitation and Special Requirements

This section contains the limitations which were imposed on the computer when the ration was balanced. These include, as you suggested: amount of hay, silage, or proportions of ingredients that you prefer to feed. It is important to realize that too many limitations may not allow the computer to achieve a ration that is truly a least-cost combination of ingredients.

Section III. Feed Prices

This section contains the complete list of feed ingredients you wanted considered in your ration formulation. The center column is the price per cwt. entered into the computer as the cost of that ingredient. The "Use more" column is the break-even price at which more of that ingredient would be used in the ration. If this blank contains all 9s, this indicates the maximum allowable amount is being used and no more would be used at any price. The "Use less" column contains the break-even price at which less of that ingredient would be used. If the ingredient is not used in the ration, a "Use less" price will not appear, as this would be meaningless. It must be realized that the price of each ingredient affects not only its own break-even price but may also affect the

break-even prices of several other ingredients. As feed ingredient prices shift, new ration formulations should be made to maintain a least-cost combination of ingredients.

Section IV. Recommended Ration

This section is broken down into three subsections. All, only two, or just one may be used, depending on your individual feeding situation. All the feed ingredients included in the balanced ration by the computer are listed. The amounts of the feed ingredients included in each batch and the pounds of feed fed per head per day are also included. The subsection entitled "Feeds Fed Separately" is used for items such as hay, silage, high-moisture corn, top dressings, free-choice minerals, etc.

Section V. Intake Information

This section contains information about daily intakes of various ration components. Also included here are the pounds of additional concentrate which should be given to a cow for each additional 10 pounds of milk she produces over the amount for which the ration was balanced. It must be realized that the additional 10 pounds of milk must come first; due to the genetic dependence of milk production, feeding the extra concentrate first will not cause a 10-pound increase in milk production.

Note

Vitamins A, D and E are not included in the computer formulation because sufficient information on the vitamin content of feeds is not available. Most commercial supplements contain adequate vitamins, or pre-mixes are available. Trace mineral requirements are normally met by using trace-mineralized salt, or mineral and protein supplements.

VI	Current	Ration	Evaluation	on	(only	upon	request)
	per Head ations fro	•	mended d	ry	matter	and	nutrients
	Drv matte	er/feed/d	lav. lb.				

Dry matter/feed/day, lb.	
Estimated net energy, MCal	
Protein, lb.	
Calcium, grams	
Phosphorus, grams	
Fiber, %	

COMMENTS:

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