

Don't delay buying a

DE LAVAL

SEPARATOR

a single day longer.

IF YOU ARE SELLING CREAM or making butter and have no separator or are using an infecream every day you delay the purchase of a De Laval.

THERE CAN BE ONLY TWO real reasons for putting off buying a De Laval; either you do not really appreciate how great your loss in dollars and cents actually is or else you do not believe the De Laval Separator will make the savings claimed for it.

IN EITHER CASE THERE IS one conclusive anwer: "Let the local De Laval agent set up a machine for you on your own place and SEE FOR YOUR-SELF what the De Laval will

rior machine, you are wasting YOU HAVE NOTHING TO RISK and more than a million other. cow owners who have made this test have found they had much to gain.

> OU CAN'T AFFORD TO WAIT till next spring or even for another month. Let the De Laval start saving cream for you RIGHT NOW and it will earn its cost by spring.

> SEE THE NEAREST DE LAVAL agent at ONCE or if you do not know him write us direct for any desired information.

### THE DE LAVAL SEPARATOR CO.

165 Broadway, New York 29 E. Madison St., Chicago 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

# The Real Way to Build Up the Soil.

The Nitrogen, Phosphorie Acid and Potash you supply to your soil goes to make the cotton stalk, leaves and roots and seed. But the seed take most of the plant food. Lint itself takes little. It is largely a substance known as cliulose made of air and water. So the seed from which the meal is ground contain the emence of your soil's fertility. Can you afford to lose it? Why send away this fertility to earlich the farms of the North and West! Why not raise more live stock and feed

cotton Seed Meal It supplies protein at a lower cost per pound than any other

feed. It supplies it in a more digestible form. And from 80% to 90% of the fertilizing value remains in the manure and goes back to your soil where it belongs. Cotton Seed Meal feeds your stock for about 10% of its cost, if you figure the value of the manure. As a feed, it costs but one-third as much as onto per pound of protein—one-fourth as much as corn. The man-ure is worth three times as much as that from stock fed on oats—and four times as much as manure from corn-fed stock.

FREE! Our interesting book, written by a stock raiset, that shows how to feed your stock raiset, that shows how to feed your stock for from one-half to one-third the cost of the feeds that tells how to permanently build up the soil. WRITE TODAY FOR A COPY.

Publicity Bureau Inter-State Cotton Seed Crushers' Association

808 Main Street Dallas, Texas



## SUCTION-FEED CREAM SEPARATOR

The only separator that skims perfectly clean at widely varying speeds and delivers cream of unvarying thickness. Saves \$40 to \$60 a year extra, due to this wonderful Suction-feed feature (the feed varies with the speed). Has other important exclusive features—no discs to wash, knee-high supply tank, ball bearing. Over one million Sharples users. Send for catalog.

The Sharples Separator Co. - West Chester, Pa. Branches: Chicago San Francisco Portland Toronto

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### STOCK AND DAIRY

Cost of Carrying Cows On Pasture-Supplementing Pasturage With Grain Feeds-Using Summer Silage

NE of the most common mistakes in the feeding of dairy cows on the farm is that the good cows are not given a sufficient quantity of feed above that required for their physical maintenance to obtain the maximum quantity of milk they are capable of producing. Successful feeding of dairy. cows involves the providing of an abundant supply of palatable, nutritious fed at a minimum cost and feeding in such a way as to receive the largest milk production from the feed consumed. Feeding for profit is defined as liberal feeding, or feeding to the full capacity of the cow, in a new Farmers' Bulletin of the United States Department of Agriculture, No. 743, "The Feeding of Dairy Cows."

From the standpoint of economical milk production, a dairy cow generally should not be fed more than she not contain the same percentage of will consume without gaining in protein as for winter feeding. Pasweight. There are times, however, ture being an approximately balanced according to the bulletin, when it is ration, the grain ration should have desirable to make exceptions to this about the same proportion of protein rule. Practically all heavy milk pro- to other nutrients. The following ducers lose weight in the early part mixtures are suggested for suppleof their lactation period; that is, they menting pasture without other roughproduce milk at the expense of their age:

Where the value of land is so high that the cost of pasturing is excessive, or where the land may be more profitably used for growing crops, other methods of summer feeding are more profitable. It is stated that in some sections for average production a cow can be fed on dry feed for 20 cents a day, and when the cost of pasturing exceeds that amount some other method of feeding should be consid-

Grain should be fed to heavy-producing cows under all pasture conditions. The following table is furnished as a guide to feeding grain with an abundant pasture. Variations should be made to suit different conditions and individual cows.

Jersey Cow		Holstein Friesian or Ayrshire Cow		
Daily Milk   Production   (Pounds)	Pounds of Grain	Production	Pounds of Grain	
20 25 30 35	6 8	25	3 5 7 9	

Grain fed to cows on pasture need

#### WHICH ARE YOU USING?

The Pure-bred Sire Means-

1. Uniformity,

Individual superiority,

Early maturity,

More marketable stock,

5. More money for your feed,

6. Credit to the owner, 7. Bigger profits.

The Scrub Sire Means-

1. Lack of uniformity,

Mongrels and misfits,

Late maturity. 4. Poor market demand,

Less money for your feed,

6. Discredit to the owner,

Loss and Dissatisfaction. -Missouri Agricultural College.

body flesh. When such cows approach the end of their milking period they normally regain the flesh they have lost, and the farmer can well afford to feed them liberally, with the assurance that he will be repaid in the form of milk when the cows again freshen.

Pasture is the natural feed for cows, and for average conditions, with ample pasture and good grasses or legumes in good, succulent condition, good production can be secured.

The cost of land is a factor in the economy of using pasture, however. If pastures are depended upon entirely for from four to six months of the year, and production is kept up to a profitable standard, anywhere from one to four acres or more must be provided for each cow, says the bulletin. This is assuming that a permanent pasture is of good, clean turf, with few or no waste places, or that a temporary pasture has a good stand of grass or legumes throughout. Land that will provide such pastures frequently is high-priced. The following tables show the cost of pasturing a cow on land ranging from \$25 to \$200 an acre:

Interest on cost of pasture per cow for the season; interest at 6 per cent on the value of the land, allowing from 1 to 4 acres per cow:

	Val	ue of	Land	per A	cre
Acres per Cow	\$25			\$150	
1	\$1.50			\$ 9.00	
11/4	2,25			13.50	
2 min	3,00	10.11	12.00	18.00	24.00
21/2	3.75	7.50	15.00	22,50	30.00
. 3	4.50	9.00	18.00	27.00	36.00
31/2	5.25	10.50	21.00	31.50	42.00
1	6.00	12.00	24.00	36.00	48.00

Cost of pasture per cow per day on basis of preceding table with a pasture season of 150 days:

	Value of Land per Acre				
Acres per Cow	\$25	\$50		\$150	
1	Cents 1	Cents 2	Cents	Cents	Cents
2	11/2	3	6	9	19
3	21/2	5	10	15	20
4	31/4	7	14	21	28

	Section and Appropriate and the second
5	
iš	Mixture No. 1:-
78	Grounds oats 100 pounds
36	Wheat bran 100 pounds
Ŗ.	Corn meal 50 pounds
	Per cent digestible protein, 10.3
No.	Mixture No. 2-
5	Wheat bran 100 pounds
Ý.	Corn meal 100 pounds
	Cottonseed meal 25 pounds
9	—Per cent digestible protein, 12.7
Œ	Mixture No. 3:-
ij,	Corn-and-cob meal 250 pounds
60	Cottonseed meal 100 pounds
51	-Per cent digestible protein, 15,5

Wheat bran .......... 100 pounds

Mixture No. 4:-

To carry cows over a period of short pasture without a falling off in milk, soiling crops are growing in favor. For this purpose secondgrowth red clover, alfalfa, oats, or peas, are excellent. Corn is also available in August and September. What may be a disadvantage in the use of soiling crops is the extra labor required to cut and haul these crops from day to day, especially if field work is pressing.

On high-priced land, where the problem is to produce a sufficient quantity of roughage, or if the cost of pasturing is excessive, the summer silo may be used to advantage. An acre of corn in the form of silage will provide succulent roughage for several cows for a season. During periods of drouth, when both pastures and soiling crops fail, a silo filled with well-matured silage grown the previous year is most valuable.

In planning a summer silo, it should be kept in mind that its diameter should be in relation to the number of cows fed daily. As a general rule, under summer conditions, a cow will consume about 20 pounds of silage. Silage enough must be removed daily to prevent excessive surface fermentation. On this basis, a summer silo for 20 cows should be 8 feet in diameter; for 30 cows, 10 feet; and for 40 cows, 12 feet. As 8 feet is about the minimum diameter for a silo for best results, a summer silo is most applicable in herds of 20 or more cows.