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The Dairy.

FORAGE CROPS FOR SOILING

Definite information as to the adaptability of the soil and climate of N J for the growth of certain forage crops for soiling has been sought for three seasons by the N J exper sta. Acre plots as to continu sly supply the necessary roughage for a working dairy herd and results demonstrated all may be used for the purpose. Rye, corn, crimson clover, oats and peas and millets furnish the food cheapest. A forage retation system of one acre produced in one year enough oughage to provide the necessary amount for an equivalent.

Average Vield and Cost per Acre of Soiling Crops for Three Years

light and ventilation, suitable feed bins, root cellar, water, feeding passages in barn to save labor, also a windmill or other power attached to the barn to do the hoisting, cutting and grinding. This would save an immense amount of le-

Average Yield and Cost per Acre of Soiling Crops for Three Years.

	Seed									Digestible food	
-		lCo-t_of				Cost Dry matter-				Nutri-	
Crop	bu	Labor	Seed	Manuic	I vial	tons	p ton	Yield	Cost	Cost to	ive ratio
Crimson clover	1-5	\$2.40	\$0.91	\$2.50	\$5,81	9.50	\$0.61	1.51	\$3.77	\$0.61	1:3.3
Rye		2.40	1.25	1.50	5.15	7.53	, GS	1.37	3.76	.68	1.5.5
Broom corn, millet	3	2.66	1.20	2.50	6.36	8 73	73	1 57	4 05	.73	1.5.5
Corn	3	4.76	.16	2.50	7 42	9.52	.78	2.18	3.40	.78	1 15.5
Barnyard millet		2.66	1.00	2.50	6.16	7.41	.83	1.34	4.60	.83	1:7.7
Italian millet		2.66	1.00	2.50	6,16		.:8	1.89	3.26	.88	1:10.4
Oats (2) and peas (2)		2.40	2.96	2.50	7.80	7 50	1.04	1.35	5.78	1.04	1:4.4
Cowpeas (broadcast)		2.66	2.50	2.50	7.66	1.22	1.06	0.85	9.00	1 06	1:4.6
Soy beans (broadcast)		2.66	3.38	2.50	\$.54	7.03	1.20	1.35	6.33	1.20	1:5.6
Soy beans (drills)		4.17	1.69	2.50	\$.36	5 75	1 45	1 09	7 67	_	-
Barley (2) and peas (2).		2 40	4.63	2.50	9 53	6 10	1 56	0.96	9.92	1.56	1.3.1
Cowpeas (drills)	1	4.17	1.25	2.50	7 92	4 75	1.67	0.56	11.14		

of 3½ cows for 6 mos. The rotation is, first year, field corn seeded to crimson clover in July or Aug. Second year, crimson clover followed by corn and the land seeded to rye after corn. Third year, 'ye followed by oats and peas seeded to red clover and timothy. Fourth year, red clover and 'imothy. The table elsewhere on this page is of interest as showing the relative value of each crop. Further details may be found in Bulletin 130 of the N J expersta, New Brunswick.

DRINK PLENTY OF MILK.

Milk is one of the best and cheapest of human foods, yet statistics show that the daily consumption in the large cities is only ½ pt for each inhabitant.
Milk is one of the best foods because Milk is one of the best foods because it contains all the constituents necessary for the complete nourishment of the body, fats, albuminoids, sugar and mineral matter. These exist in readily digestible forms and in proportions well suited to meet the demands of the human system it probably approaches

suited to meet the demands of the human system. it probably approaches perfection as a human food more nearly than any other natural product. It is one of the cheapest foods because, at prevailing prices for milk and other animal foods, it furnishes more actual nutritive matter for the money expended than any other. A quart of milk of average quality, weighing 2.2 lbs, contains as much nourishment as 32 lb of good sirioin steak. With steak at 16c p lb, milk would be worth, but he basis of nutritive value, 12c p qt. This difference in the cost of nutrients of the two kinds of food, aside from the increased cost of preparing the meats and the greater waste in their use, is a matter worthy of consideration as bearing upon the economy of the food supply of the home.

MARITIME FARMERS' NEEDS

Our farmers greatest needs include the more liberal use of fertilizers or plant food for growing crops, because the fertility of the average farm in Canada has been greatly exhausted by growing grain and roots that were sold growing grain and roots that were sold off the farm without return of plant food. A good way to restore lost fertility is to sow a liberal supply of clover seed with all crops, to be either fed to animals on the farm or plowed under as green manure. By this process we can take out of the atmesphere an amount of soluble plant food worth \$12 to 15 p a. We find by long experience that clover grown with any crop will increase the weight of that crop.

Next in importance is the care of stable manure. Liquid manure is worth three times as much as the solid and should be carefully saved by keeping plenty of dry swamp muck or other absorbents in the stables to absorb the liquids. It would also stop excessive fermentation in the manure heaps, which should never be left outside exposed to rain and sun. As most of the farmer's work is in his barn and stables, he should build them as conveniently, as possible, by having plenty-of

terated, largely with oat hulls. The patent, or condimental, foods, were found to consist of some simple feeding stuff like linseed meal, corn meal or wheat middlings mixed with some cheap drugs like gentian, fenugreek, pepper and iron compounds, and for these the buyers are asked to pay from \$10, to 500 a to

The Pasteurizer in batter making should e used at 176 to 185 degrees. At by the N T exper sta from hundreds of thousands to 200 or 300. Butter made from milk heated momentarily to these high temperatures had very little cooked flavor and if rightly handled none at all none at all.

As a Forage Crop, rye is valuable from a food standpoint and because it is one of the first available crops for spring feeding. Seed 2 bu p a in early spring feeding. Seed 2 bu p a in early Sept on land well manured and fertilized. In central New Jersey the crop will be ready for feeding in late April. While the crop matures very rapidly after the heads appear, it can be used 10 to 12 days before it blossoms. The objection offered by many dairymen that at this early stage of growth it contributes an unpleasant flavor to milk has some basis in fact, though in the experience of the station, if the rye is fed immediately after each milking and with the feed ration, the flavor of the milk is not injuriously affected. This crop possesses the further advantage of theiring well from late seedings, thus providing a winter cover crop for soils that would otherwise be subjected to losses from leaching caused by the winter rains and snows. Where it is not desirable to practice soiling, the crops may be pastured. This method while more wasteful is less expensive than soiling and provides green from the after after other in dairy regions particularly, it is very imporregions particularly, it is very impor-tant, and before other pasture is ready, [Director 15, 16, Voorhee.]

The Guernsey Herd Register for July 1900. Is fully up to its usual standard 1960, is fully up to its usual standard of excellence, containing reports of various breeders' meetings, and an article on How to tell a good cow, by Prof. Hayward of Pa. The several fine half-tone illustrations are choice selections of the breed. Registers of bulls ow reach 6536, and cows 12,559. The Register is a credit to the Guernsey cattle club.

The Horse.

TEACH COLTS TO WALK FAST.

There is no pace so valuable or so much appreciated and so practically useful in a horse as a fast, fair, square walk, and there is nothing that will cause an animal to be driven harder and kept "o continually on the other and kept "o continually on the other paces as a deficiency in this respect. So far as the walk goes, the horse is generally put upon the market as nature made him, and rolls along at the pace his ambition dictates, commended by his owner as a wonder if he happens to walk fast, and sworn at and over-driven by everyone if he chances to be lazy and slow. The fast walker is often made so by being put with a mate while breaking which happened to be a quick, free mover, and no fariner or breaker can be too careful in seeing to it that no colt of his is ever either driven or led beside a sluggish, inactive partner.

Helps in Horse Breaking-By the time I get ready to hitch young horses to drive, they are more than

half broken. half broken. I get the colt fa-millar to the harness by means of a bit-ting rig. This is composed of a bridle, surcingle and crimper mal

and crupper.
While the animal is small mal is small enough to handle easily, this is put on and left two or three hours a day, the horse being given the liberty of the pasture. Straps run from the bits to the surcingle will get him familiar with the lines. It is little trouble to put the bitting rig on and a well-bitted animal is easily broken.—[J. L. Irwin, Nemaha Co, Kan.

Don't keep the horse from water so long that when he does drink he gorges himself.

The fastest mile ever made in Canada was paced on the "indsor (Ont) track July 12, by Joe Patchen. His time was 30, 1.01, 1.33%, and 2.04%. The last quarter was made in 29½ seconds,

California hop growers have formed an ass'n to improve the industry, regulate supply and demand and maintain fair prices. To insure success, the ass'n must secure contracts binding 75 per cent of the hop acreage of the state to abide by its decisions.

F & H is brief, spicy, full of meat such as farmers want. It is a welcome visitor in our home; it is like having a dear, pleasant, cheery friend living near that we can run and chat with.—[Jacob Faith, Vernon Co, Mo.

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