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Notes by the Way.

Cattle-boat, a large 252 Report of MM Gigault and Leclair..... 253

Addresses.—The editor would feel obliged to all correspondents if they would address their communications to him as specified in the first paragraph of the first column of the outside page of the Journal, as more than one im portant enclosure has gone wrong during the last month owing to imperfect addresses.

The Robertson silage.—The mixture | of corn, horse-beans, and sun-flower heads has been tried at the Vermont tation, and of the three the corn and sunflowers did well, but the horse-

beans seem to have been a failure probably owing to their having been sown at an improp r time of year. As we have said before, unless the beans are sown very early, they come into known to every farmer in Europe bloom just as the large black fly, called in England "the Nigger," is flourishing, the blossoms are cut to pieces, tion of experiments on matters that and of course, the pods never set.

As the station cows "took sick" with tuberculosis, the trial goes for Nine calves were used, one being fed nothing; but the opinion of the ex- on whole milk during a period of 60 perimenter is that, under the condidays, whille the other 8 were gradually tions prevailing, the mixture did not changed from whole to skim milk in feeding value." Well, if the beans, are glad to see that the wasteful plan rich in fat added, to the maize, so long, is exploded. The time coverdid rot make it better than pure do by the trial varied from 12 to 24 maize, all the experiments of the past wooks with the different calves. The following is a summary of the results: work required is hardly likely to

Soja-beans.—In another experiment at the same station, corn and sojabeans were tried against corn alone. Here the mixed corn and pulse caused the cows to give richer milk than the pure corn, but no increase in quantity was yielded.

When pease and oats, and tares and cats, both lots ensiled together, were

tried against corn.
"Nearly 7 lbs. more butter were produced by 6 cows fed 6 weeks on consture with ensiled onts, vetches, and constant than was made in the 6 weeks immediately preceding, on pasture, old silage, and fresh fodder corn, and nearly 40 lbs. more in the 6 weeks immediately following, when corn and

rye silages were eaten.
"It is not claimed that this is a strictly controlled experiment, but it serves to show that onts and vetch,

and proved, to use M. Pierre Guèvre-mont's words, translated, "the best green food they had ever used for their milch cows." Only, people in general will not sow it thick enough: 2 bushels of oats, one of pease, one of tares, and a couple of pounds of rapeseed, are not too much for an acre.

Of the two mixtures mentioned above, the composition as compared with corn is worth attention:

Rearing calves .- A very satisfactory experiment on rearing calves was tried last year at the Minnesota sta-tion; but, the facts are so commonly ought to have been received fifty years ago as finally settled.

lineged cake, which has the reverse offect. So, we were not surprised to hear that, at one of the stations in the States, of three calves fed skim-milk with from ‡ to ‡ a pound of cotton-ecod meal—per head, per diem, we suppose—was added, not one survived longer than 6 weeks.

Anthomyia radicum, the root magget, has been very destructive to the plants of cauliflowers this season. The best safeguard is tarred paper, applied to the young plants when setting them out. No doubt "crushing the

Summary of feeding experiments with calves.

	Length of trial.	Cost of food.	Weight	Gain iu li	P	
			tr.al.	Total	Average oer day.	pound of gain.
	Days.		Pounds	Pounds.	Pounds	Cents.
Calf No 1, whole milk diet	ĞΙ	\$13.88	245	160	1.90	9. 69
Calf No. 2, skim milk niet	84	3.48	160	100	1.19	3.49
Caif No 3, skim milk diet	140	5. 67	231	179	1. 28	2.88
Call No. 4, skim milk det	140	4.63	. 203	133	. 20	3.81
Calf No 5, skim milk diet	140	5. 10	235	150	1.07	3:51
laif No. 6, skim milk let	168	6, 58	257	192	. 1.14	3.47
Calf No 7, skim milk diet	168	7. 32	420	338	2.01	2. 40
Caif No 8, skim milk diet	168	5. 33	. 270	210	1.25	2.51
Calf No. 9, skim milk diet	168	6. 53	265	193	1.14	3.71
Average for cal es fed on skim milk					1,25	3. 23

serves to show that oats and vetch, and oats and peas, ensiled, may be expected to produce at least as good returns at the milk pail and in the churn as will corn silage."

The mixture in the silo of vetches or tares, pease and oats is precisely what was tried by the Guèvremonts at Sorel. 10 years ago, under our auspices, 16 yars ago.

mentioned in this publication that the usual. Judging from what we ourlate Sir John Abbott had lost several selves saw, they were endurable, and of his Guernsey calves owing, as he the cows under our immediate observand his man supposed, to their having ation did not fall off very much in been fed on cotton-seed-meal. As their yield of milk Spraying with this provender is of a very constipat- kerosene emulsion, repeated occasionalbeen fed on cotton-seed-meal. As this provender is of a very constipating nature, it is hardly over given, even to cows, without a mixture of the droppings, are good plane.

As will be observed, the cost per recommend the process' Carbolic pound of food of gain varies from 969 emulsion, and violent poisons of that cents in the case of the whole milk kind, injected into the soil, seem to

Citton-seed. — Some years ago, we has not been so active this year as ly and sprinkly fresh slaked lime over

> Apple-magget. — It is really sad to see the damage done to our fine Famouses apples by this wretched creature. The beast lays his eggs in the pulp of the apple, instead of the skin, and deposite them from July to frost, to that he provides a continuous suc-cession of adult offsprings. All wind-falls should be destroyed; by hogs preferably; and lime, ashes, salt, &c., scattered over the ground to distroy the lorva when about to change to the pupa. Of course, every sen-ible man uses some insecticide or other, and sprays his fruit-trees as a regular part of his spring and summer work.

> A good lot of cows must be that kept at the Minnesota station, for the record for the year 1893 shows that the 23 milked there averaged 6,400 lbs. of milk, at a cost of 62 cents per 100 lbs. and terned out 365 lbs. of butter in the 12 months, at a cost for food, &c., of 10½ cents a pound !

Effects of change from house to pasture. - Cows, at the Vermont station; a new herd after the old one had been destroyed by tuberculosis, we presumo; ate, before and after the change,

Composition of green and ensiled material.

	Composition of dry matter.								
	Water.	Crude ash.	Crusto pro-	Crude fibre.	Nirogen-	Bther ex-	Nitrogen.	Phosphoric acld.	Potash.
Corn fodder as put in	.'77. 21 .174 .91 .79. 16	5 42 5.87 8.11	' 7 59 10, 53 10, 24	23 °6 21.36 1.6.00	53. 8	4 2 6. 17 3. S0	1 2) 1.68 1.6t	1. 130 . 49 . 476	1. 509 619 1. 92

Composition of green and ensiled soja bean and villous vetch.

			-,							ľ
		Composition of dry matter.								1
	Mojeturo.	Crudo ash.	Grudo pro-	Crudo fibr.	Nitrogen- free extract.	Bther ex-	Nitrogen.	Phosphoric actd.	Potash.	1
-oja bean silage	75. 36 77. 16 80. 30	12. 16 19. 00 14.85	20.19 17.61 21.46	22. 53 26. 09 22. 85	11.56 31.44 15.16	3.46 2.86 5.68	3 24 2. S1 3. 43	. 625	1. 775 2. 246 : .407	1