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## Notes by the Way.

Oats.-By a stupid miscalculation, we stated in last month's Journal, desirable to keep the liquid and solid that our dear old farm tutor, Wm. manure together. The lighter the Rigden, had grown 148 bushels of soil, the more thoroughly should the cause to the acro. It should have been dung be rotted. 140 bushels, as the original phrase ran Mr Garth, of Ste There's and others thus: seventeen quarters and a half.

last, great satisfaction was evinced with the crop of beets grown in '94

and with the profits derived therefrom. But we must be allowed to say that we entirely disagree with the proposal we entirely disagree with the proposal to grow beets on raised drills. Mon siour Alfred Musy, writing in the "Journal d'Agriculture" of February last, says: "Richness in sugar will be obtained by invariably growing 30,000 beets to the arpent " about 35,000 to the acre. At what distance apart must these be set out? Should they be horse-boodwith the ordinary they be horse-hoedwith the ordinary implement? If so, the drille must be at loast 24 inches apart, or the young plants will be smothered. Will the necessary pulling down of the drills, the beets being thereby left party naked, not render it obligatory to earth them up afterwards?

By the byc, M. Musy says in ano-ther part of his communication : "We did not dare to make any deduction on delivery for the necks, leaves, and dirt, that were sent in with the beets, though it would have been justifia-ble." Now, M. Seraphin Gudvremont, ble." Now, M. Séraphin Guévremont, in a letter dated Nov. 2.1st, 1364, says: "The roots, weighed for the factory at Berthier, with a deduction made of 12 ojo and 15 ojo... turned out to be 35 tons." (1) Why this deduction was acide M. Guévremont does not say, and we should like to know for it and we should like to know, for it makes a difference of something like \$7.00 an arpent in the return of the crop. Any how the crop paid, and the after-crops will feel the effects of the perfect cultivation f om one end to the other of the rotation. See p. 222 of last year's Journal for a fuller statement of the case: in the last line but one, for " quantity " read "quality."

Winter-dairying. - The campaign among the Insutures of Winter-dairy-721 ing has been, we hear, very success-721 fal, particularly at those in Rimonski 72 and Lake St. John. 12

The Ensilage Meeting, as it used to be called, now, "The Central Canada Agricultural Society's Convention,"-71 1 which is too long a title to be curve-in nient - scems to have been very successful. As far as we can judge

by the papers-our unfortunate deal-ness renders our attendance at public meetings fruitless-the general discus-76 sions appear to have been more large 761 ly developed than usual, for, unfor <sup>76</sup> tunately, as a general rule, one or two

but of two present at our agricultural but gatherings seem to usurp two large a result of the talk.

Mr. Ramage's paper on "Farmyard Manure" spoke of the advisability of mixing the dung of the different kinds 77 of stock; manuring in the fall was 77 wite if the manure was not ploughed in too deep. Straw should be chaffed for bedding, as it would in this form 78 absort more of the arine. 78 İ

781 Professor Shutt dealt with the che 781 mistry of farmyard manure. Humus ïъ is the decayed vegetable matter left

in the soil; after decomposition, it eots free cortain gases that exercise a beneficial effect as plant-food. As long as manure is kept moist, it will retain the ammonir, and, so, in the professor's opinion (and in ours) it is

spoke outhis subject. Mr Brodie advo Sugar-bests.—At the Belœil meet-out into a wide low pile, making the in our country) of carting the dung in our country) of carting the dung verchères-and Richelieu, in January ing it down as both cart and horee

(I) Three arpents.

work in summer throwing water over

the mixen to prevent "fire-fanging." M. Perreault described the English system of *boxfeeding*, which, in short, is this: the earth is dug out two feet, or so, deep, and divided by rails into a double row of *boxes* of from  $6 \ge 6$ feet, for small Canadian cows, to 8 x 8 feet for big shorthorns, a passage being kept down the middle. In each box, is a trough and a crib, the trough being moveable up and down. Litter is daily put in as needed, and the beas. moving about tramps down the ma nore so tightly that no smell of fermenting dung is ever perceptible. It generally takes about 4 r.onths to fill a 2-foot deep box with dung. The division rails must be wide enough apart to allow of the beast putting its head through and withdrawing it easily, as we remember losing a noble fat -in 1851-through his hanging steerhimself betwoen the division rails.

M. Perrault is mistakenly reported we hope, as saying that "the place is kept perfectly dry by means of drain-ing," as that would do away with the ing," as that would do away when the chief object, as regards the manure, of this system : the urine is all retained in mechanical combination with the solid faces, and yet the animal never shows a speck of dirt on its coat. Beast never lie down in dung if they can avoid it. As we wrote in Decem-

ber 1884 : "Many people, who ought to know better, fancy that this plan of box-feeding must be unwholesome. It is not so; the fermentation that takes plan is so slow and stealthy (eremacausis) that no ammonia is evolved, and the only smell perceptible, even when the boxes are full, is the pleasant odonr of *linseed*, always supposing that invaluable food is employed."

"When well managed, box-feeding prevents any waste, by drainage, of the most valuable parts of the manure; there is no loss by evaporation of am monia; the manure ferments regularly and slowly; and both liquid and solid excrementitious matters, neither of which are perfect fertilisers when applied separately, are preserved toge-ther in the most admirable manner." v. Journal, vol. VI, p. 178. Mr. Fisher spoke of animals doing

better at large than when tied up. This is the principle of the hamils used in Scotland for fatting beasts, but the enormous quantity of straw required for this system renders it atterly out of the question here. Boxes, on the contrary, take up very little litter.

Sir Donald Smith remembered when

science, it could only reckon fifty years from birth.

Prof. Saunders drew attention to the heaps The rozen ground inderneath the fact that the sugar-beet was a leaching, and when spread in the comparatively exhausting crop. Of spring before the ground thaws, you course Mr. Saurlers did not mean get a more equal distribution of the that the beet is more exhausting. per fertilizing material." that the beet is more exhausting, per iterulizing material. se, then any other root crop, if con-sumed on the farm, but it is all ex ported, a.d if nothing in the way of artificial manures or foreign food is imported to supply its place, the farms on which it is largely cultivated Shutt's arrestment rublished in this will soon tell tales.

Canadian farmers, continued Mr. Saunders, have much to learn on the subject of manuring.

pass over it. This may be seen in practice any day on the farm of the Montreal College in Shorbrooke street, where a hose is constantly kept a

Build series of the series of course of publication in this Journal.

Stone-drains .- If any one will look at the out annexed, he will see at once why stone drains can only be profitably made in districts where labour is cheap and pipes dear. The difference between the weight of earth to be moved in making a stone drain, and the weight of earth to the moved in making a drain with 11 inch pipes, is enormou. The last 15 inches of the pipe-drain being taken out with the steel semi-cylindrical spade need not be more than 4 inches wide at top and 2 inches at bottom; whereas, the be' tom of the stone-drain must be at least 9 to 10 inches wide; and the selecting of the different sizes of the stones, gotting them into the drains, and securely packing them, these are no slight jobs.



A STONE-DRAIN.

Top-dressing.-Professor Saunders, of the Government Experimental Farm, in his evidence before the agricultural committee at Ottawa, last year, referring to the loss of ammonia in dung spread as top-dressing in the summer, said : It was generally believed that if you dried manure in the sun, part of its fertilizing contents would be lost

To ascertain whether this view was correct, our chemist dried barn-yard manare until it was quite brittle, and on analysing it he found there was practically no difference, so far as fer-tilizing qualities are concerned, be-tween the dried manure and the same manure when it was fresh, showing that in drying it lost only water. Any ammonia formed at the time the dry-ing process began would be lost by the drying, but that loss was so tra-fling that it made no appreciable dif-ference in the results of the analysis. The question of leaving manure in the yard until spring, or drawing it out in the winter and scattering broadcast, was replied to as follows: 'I think if the ground is fairly level it is better to set it out. It depends a great they don't do so now. Professor Shutt spoke of special manure out on the ground and plow-education in agriculture. Agriculture of in in good time for sowing Where was the oldest of all arts, but as a there has been snow, the manure from kinch heaps. The frozen ground underneath

Shutt's experiment published in this periodical in 1893, p. 107. This being so, we hope the question is st rest for ever, and that we shall no larger hear