For The Agricultural matter published in the WEEKLY GLOBE is entirely different from that which appears in THE CANADA FARMER.

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The Canada Farmer

TORONTO, CANADA, OCTOBER 15, 1876.

Adulterated Butter.

The adulteration of butter has been brought to such a high state of perfection that there now seems good ground to doubt the reliability of all known methods of its analysis A case in point very recently occurred in Glasgow. One of the city sanitary inspectors purchased from a provision class of good, saleable butter. dealer, named McKinnon, a pound of butter which had previously been bought from a wholesale house, and on and of good odour The inspector however submitted the eample to Dr. Clark, city analyst, who condemned it as not genuine. Thereupon an action was entered against the dealer who, in defence, submitted the testimony of two other chemical authorities, contirming that of the chemist who had first recommended it Sheriff Lees who tried the case, sent the article for further inspection to Somerset House, whence he received the following report, on the strength of which judgment was given for the plaintiff and a fine of two guines imposed upon the defendant .

Water Curd and impurities				14 30 t	14 30 per cen	
		*****		. 00.43	**	
Salt			•	. 8.81	44	
Fats			*.*	61-41	**	
				6160.00		

Accompanying the report was a letter signed by Mr.

Mr. Bell was evidently not aware of Hollanders nearer home. The Glasgow News, reviewing the case, and commenting pretty severely on the decision which, it contends, should have been directed rather against the manufacturers than the dealers, proceeds with the following piece of enlightment :- Messrs. James Smith and Sons, soap-makers Dalmarnock-road. Up to a few weeks ago the Port-Dundas establishment was exclusively, or almost exclusively, a place for the manufacture of soap. Since then the requisite machinery has been constructed, and at the present time it is devoted entirely to the manufacture of butter. The process of manipulation is as follows: -Good beef suet, perfectly wholesome, is sorted, and every piece of coarse texture is separated from it. Having been roughly chopped up by hand, the suct is placed in a machine heated by steam, in which it is torn, by rapidly revolving knives, into the smallest particles. The heat of the machine brings it to a melting point, and it flows into a receptacle, where it undergoes constant agitation for about two hours. The object of this is to remove from the fat the grosser substances, such as the filaments or shreds of skin which the most part citizens and townsmen engaged in mercanmay be attached to the suct. These, with other impurities, tile and other kindred pursuits, of course the success or nonfall with the heavier fat to the bottom. Having been success of exhibitions hinged largely, in their estimation, allowed to settle a tap situated some inches above the bottom on the magnitude of the crowd attracted. Business was of the machine is opened, and a fine, rich oil flows into in their eye, and the amount of business transacted de-

the effect of straining the fat through the mats, again multitude, in order that the multitude might enliven busizinc vats, and once more heated. Drawn off in a liquid form, it again undergoes the straining process in the hydraulic press. It is then supposed to have been reduced to a state of purity, and ready for amalgamation with milk. This is effected in a gigantic churn, fitted up with two sets of paddles. The proportion of milk and oil may be roughly stated at about 11 gallons of the first to 30 or 33 gallons of the present and a stimulus to future prosperity. The beet fat. The mixture is thoroughly amalgamated by the local cattle show, says one of our English exchanges, is an constant and rapid motion of the paddles, which also have, important institution, stimulating the breeders of the disof course, the effect of producing the usual proportion of trict to improve their stock, each in gentle rivalry trying new, fresh butter from the milk. It is necessary after this to outvie his neigebor. It is at the cattle show, when his to drive out the whey which has formed, and to do this horse, cow, pig, or sheep stands alongside his brother farthe substance is passed through rollers, which not only mer's animals, that he finds out the failings and virtues of expel the water, but make the amalgamation more perfect. his own stock, and then goes homewards with a determin-From this it is conveyed to kneeding troughs, where it is ation to go on improving its type and general character. worked by hand, and receives its due proportion of salt | Though, perhaps, beaten, he is not quite vanquished while saltpetre, and colouring matter. Nothing more remains he lives to fight another day. than to pack it into tubs usually associated with particular. To the healthy influence of competition at cattle shows markets of fine butter, and issue it to the trade with any we must greatly attribute the present fine, improved charfor sale to the community, as "Fine Jersey," or any other the breeder sees what points to avoid or to cultivate. If

whole subject of adulteration has now been pretty freely well do it without. Other laborers, however, have been the recommendation of a chemist who pronounced it pure ventilated across the Atlantic, and legislation upon it at in the field, and he enters upon their harvest. It would no distant day is highly probable.

Dynamite for Stumps.

for cradicating stumps? We have no hesitation in reply on the strains of cattle, horses, and sheep, which have mg that the results of its application in this respect are inade special character and the power of transmitting their not nearly so great as was at one time claimed or expected. Dest qualities to their descendants. It is not the value of In a recent issue of the New York Herald we read as follows the individual animal as a food producer or as a breeder of regarding an experiment which, in one case at least, ordinary stock for sale to the grazier or butcher, but its "The samples of butter referred to in the preceding letter was a secured a success: "Some dynamite was employed to raise potentiality for good for generations to come that makes settly that we have analyzed the butter, and desire the results of our quantity of earth was removed from the side of a stump science also spent in developing the strain, the costly examples to be as follows quantity of earth was removed from the sule of a stump science also spent in developing the strain, the costly exand a hole driven below the stump with a crowbar. Into perience gained in the face of many difficulties, all go to this hole a cartridge of dynamite was pressed by means of render highly-bred animals valuable. Were it otherwise, a wooden ramrod, then a detenating percussion cap, with fancy prices would be ridiculous. The cost of producing a Blackford's fuse attached, was squeezed into a small stock is necessarily included in their market price-follow-"From our examinations of the fats, we are of opinion that the sample is made up almost exclusively of a fat which is not of butter, and which has apparently been worked up with a little milk."

In contact with the charge. The hole was filled up with a little milk."

In contact with the charge. loose earth, about a foot length of the fuse being left bare, sult of time and treasure sunk in forming the special type Bell, one of the analysts, and containing amongst others. A match was next applied to the fuse and a sufficient time, which, if broken, it would take a generation to repair, the following remarks:

was taken for the powder to reach the percussion cap to To all, and especially to the farmer, these exhibitions of

circumstances, possibly overlooked, which rendered the as that of any previous year. shattering comparatively easy. We have seen dynamite repeatedly applied for similar purposes, but, in nine cases out of ten, the only effect was the tearing away or loosening of but a very small portion of the stump, so that the and oil merchants, 20, Ropeworklane, Glasgow, have charge had to be repeated again and again—in some inworks at Kyle-street, Port-Dundas, and Ruby-street, stances as often as twenty times to an ordinarily sized stump. We quite agree with the Mcrakl however in recommending dynamite for blasting boulders.

Agricultural Fairs.

The principal fall exhibitions are now nearly over, and we trust the practical lessons they are designed to teach will not be lost. It is gratifying to notice that, as a rule, these shows are vastly improving from year to year, if not always in the quantity, at least in the quality of the products exhibited; and it is further noticeable that this improvement is intrinsically greater or less just in proportion as practical farmers themselves take or do not take the regulation and direction of matters into their own hands. When the directors of agricultural societies used to be for cans prepared to receive it. It is allowed to cool to a but-cided the merit of the show. As an incentive, therefore, the importation of Canadian eggs will doubtless be hailed ten-like consistency, and is then placed between mats, and to this consummation, every kind of attraction used to be with satisfaction."

subjected to the squeezing of a hydraulic press. This has thrown out-horse-racing, gambling, anything to draw the leaving the grosser particles behind. The fat is taken to ness by spending money. Tavern-keepers in those days were the most active promoters of exhibitions, particularly the side issues, for they reaped from them the largest harvest. Happily we have now entered upon another and a different era, when the success of exhibitions is adjudged wholly on the merits of the display when they have realized largely their original and proper aim-an index of

particular brand that may have been determined upon, acter of our flocks and herds. In the exhibited animals he determines on making a mark himself, he does not fail Through the indomitable energy of the same journal, the to procure the blood of some winning strains. He cannot be folly to attempt to perfect an old unpedigreed strain of Short-horns, while the work is already to hand in a far advanced stage, from which the breeder may at once take his starting point without loss of time. It is this consid-The question is frequently asked: Is dynamite profitable eration which puts a somewhat fictitious value, apparently,

"I may state that I think we have fairly investigated the butter allow the operatives to retire to a safe distance. When the investigation was undertaken in the interests of the exhibition of the product to retire to a safe distance. When stock and farm implements are educational. It it thereboth the trade and the public, and that we had helped the results would prove satisfactory to both in the present case it is clearly of the ground, some of the fragments, weighing nearly the influence they exert on modern agriculture must be character of an article which, it appears, is being imported from the powder to reach the percussion cap to 10 all, and especially to the farmer, these exhibitions of the return to the first the powder to reach the percussion cap to 10 all, and especially to the farmer, these exhibitions of the return to a safe distance. When stock and farm implements are educational. It it therefore the product of the stump was literally blown out for a satisfactory to find them ever mercasing in popularity. The influence they exert on modern agriculture must be character of an article which, it appears, is being imported from the percussion cap to 10 all, and especially to the farmer, these exhibitions of the framer, these exhibitions of the product of the product of the product of the stump was literally blown out for each and farm implements are educational. It is therefore the exhibition of the product of the Now, in this case, there were no doubt some exceptional the present show season will be as pleasant and successful

Trade with England.

We have on several occasions noted in these columns the gratifying trade that has sprung up, and is being speedily established between Canada and Great Britain in the matter of horses and cattle. The profits of exporting have been quite large enough to encourage a wider extension of the enterprise, and stimulate to greater activity in the development of these branches of Canadian farming. In addition to the trade in live cattle and horses, we have now to chronicle the creation of another branch of business with our kinsmen over the sea. "The latest instance of Canadian enterprise," says the Liverpool Daily Courier, "is the exportation of eggs by D. D. Wilson, of Seaforth, Ontario. These eggs have found their way to Liverpool and Glasgow, and notwithstanding their journey of over 4,000 miles in the hottest season of the year, have preserved their freshness in a remarkable manner. Mr. A. G. McDougall, of Scaforth, Ont., who is now on a visit to this country, and to whom the eggs were consigned, is so pleased with the satisfactory issue of this new venture that he has made arrangements to furnish supplies of eggs to this country on an extensive scale. Considering the scarcity of eggs here particularly during the winter season,