In exchange for the products of the fields and animals, the farmer obtains what may be called here, "Gross Receipts," The capacity of every dairy cow be enlarged, until she gives annually "Gross Receipts" may include, cash, goods received in trade or as many pounds of solids in her milk as her live weight? exchange, house-rent, board, lodging, the use of horses for pleasure and work, etc., etc. A large proportion of the "Gross Reccipts" of most men, except farmers, must go out as "Expenditure" for those things which the farmer gets from his products over of feed influence and affect the flavor of animal products. The and above the cash which he handles. A small cash income does not always mean a small income nor does a large sum as "Gross-Reccipts" always indicate a large profit. The measure of profit is uniformly fine or irregular and inferior. the difference between "Receipts" and "Expenditure." All exquality of the products in dairying, is legitimate work worthy of ordinary conditions in Ontario? your Union.

Investigation may be directed profitably by one or more members, towards the discovery of how far and in what ways, "Expenditure" or "Cost of Production" can be lessened under the following heads:

- 1. The use of feed of cheaper sorts.—Can corn ensilage be produced at a cost of \$1.75 per ton on the ordinary farm? How much of it will produce as much milk as one ton of hay? How does the cost of soiling compare with that of pasturing for milk production in different districts of the Province? Are roots as economical for a succulent feed as corn or other ensilage?
- 11. The mixing of feeds into the best combinations. Is the nutritive ratio theory sound, when acceptability of flavor is ignored?
- III. Providing and preserving folders and grain in the most acceptable candition of payor. - What is the worth of a ton of hav, that has been exposed in the feeding passage for a day and mussed over, compared with a ton of hav of equal quality fresh from a compact mow? Does digestibility of feed depend in any degree upon it- palatability?
- IV. A reduction in the quantity of seed offered to cattle, When a cow eats too much rich feed, an immediate consequence is a lessened flow of milk of impoverished quality. Are many cows spoiled by over-feeding?
- V. A lessening of the cost of labor and expense in freducing, manufacturing and marketing. Is there an advantage in carrying on dairying in winter in respect to the labor available on the farm during that season? Can butter and cheese be made as economically in small lots in private dairies as in co-operative factories? Can dairy goods for the home market be sold best direct into the consumers' homes from the producers? Will it pay the producer to sell always, when perishable goods are in the best condition. regardless of the current or prospective price?

I have used a great many interrogation points. In trying to answer the enquiries, every honest investigator will learn much and the success with which they were meeting, then drew a bright and to some extent become a teacher to instruct and stimulate picture of the better things in store for his hearers. This was not others.

The tendency to devote one's whole attention to the "Receipts" as the source whence may be obtained an increased profit is a in the dairy? We do, without doubt, and in consideration of all common weakness of judgment, when a business calculation is that has been, and is being done to advance the dairy interests of being made. The reduction of "Expenditure" or "Cost of Pro the Province, we sarely have a right to expect better things duction" is a more controllable factor in profit-making, and still Slowly but truly the Dairy Associations of our Province are exthere are safe and economical ways in which "Receipts" can be tending their influence. Can this do anything else than bring legitimately and certainly augmented. Practical enquiry may about better things? seek to learn from experimental investigation, to what extent that spread broadcast through the country bring about better things? may be accomplished under the following heads:-

- I. Enlargement of the capacity of the animal. May not the
- 11. Improvement in the quality of the product, How far can the quality of milk as to its per cent, of solids be varied by feed and treatment of the animal? How far does the quality and the kind quality of all food products not only modifies the market price. but gives stability or uncertainty to the demand in degree as it is
- 111. Selling most of the product at a se ison of the year when perimental work that helps to show how "Expenditure" or cost prices rule highest .-- Is cheese-making in summer and buttermay be reduced, without lessening the quantity or degrading the making in winter the best dairy practice for the farmer, under
 - IV. Marketing products in the best concentrated form. Will the labor and expense of special preparation, in giving products an attractive appearance for the market, add more to their value than the extra cost involved? Will such a preparation help to secure a class of customers able and willing to pay the highest current prices.
 - V. Making the most of by-froducts.-Animal products from the dairy retain an average of less than 20 per cent, of the total nitrogen, phosphoric acid and potash in the feed consumed. The manure which contains the residue of these from the feed is the first by-product. Although it contains over So per cent, of the valuable constituents of the feed, it is not worth 80 per cent, of the original value. How can it be saved and used to yield the greatest value? Skim milk, butter-milk and whey are by-products. In what combinations can they be fed with most profit to calves, colts and swine?

reproach to the business judg-The common dairy practice is ment of the farmers. Many cows are fed at an annual loss. They board on men who can ill afford to support indigent cows on the out-of-door-relief plan. Single cows in some herds, like the Egyptian lean Kine, in everything but appearance, swallow up the profits of two cows which are exercising, the profit-making talent, Thoughtful experiment in any kind of a way, along the line indicated, cannot fail to convince any farmer of the possibility of realising some profit from dairying and may stir him up to try for more while helping him to succeed in getting it. An experimenter generally becomes enthusiastic; enthusiasm is contagious and practical investigations keep it operative in beneficial ways.

BETTER THINGS.

At a recent convention this was the subject of the last address. The speaker briefly pointed out the difficulties of the past, of the present, with the efforts that were being made to overcome them, at a dairy convention, yet it is just as applicable to the dairy industry as that to which it was applied. Do we need better things Will not the dairy literature that is being i Combined with this we have a beginning of an awakening of the