jury to the land for one season at least. By making use of the modern manure spreader, light applications can be made and in this way, there need be no loss from the old time and a go heavy application.

heavy application.

The expensive work made necessary in cleaning up the yard represents a dead loss. When the work is all left to be done at one time, it cannot be done economically. If the manure is drawn out as fast as it is produced, is drawn out as fast as it is produced, it eliminates the expensive fall and spring jobs. When removed in this manner, spare time is largely made use of and the expense is practically nil. Besides, the fertility is got upon the land, where it will do the most good, before it has an opportunity to deteriorate.

deteriorate.

Another loss which is frequently over-looked is the injury which a manure pile does to the buildings and to the stock. When manure is allowed to accumulate around the barn doors, it causes filthy surround-ings, and makes it impossible to keep cows and produce pure milk allowed to remain in box stalls or It allowed to remain in box stalls or stables for any length of time, it has a very injurious action upon the health of the animals as well as rot-ting off the posts which support the barn. The only rational way of over-coming these evils is to haul the manure out to the land as soon as possible after it is made.

M M M The Rural Telephone

Great changes have been wrought in rural life within the past ten years. In these the extension of the tele-phone to rural communities has played no small part. Towns and cities witnessed the advent of the telephone 20 years ago, and now the business of a city or town would practically be demoralized without it. Its bene-fits in rural districts are equally

s great, if not greater.

The welephone for country life is rapidly becoming a necessity. It brings the town and country closer together. It tends to shorten the distance between country homes. tends to overcome many of the difficulties and inconveniences, consequent on lack of quick conection, that hitherto confronted the farmer, The doctor, the butcher, the merchant during any stress of circumstance can be brought near and communicated be brought near and communicated with in a few moments. The feraner is brought in close touch with its brother farmers and with the market when he can obtain prices, and thus save many dollars through his knowing when to market his pro-

duce to best advantage.

Evidently the telephone is of inestimable benefit to farmers, and its value must increase in proportion to the extension or rural systems. Un-fortunately this extension in Cana-da has not been as great as its advantages would warrant. This is due largely to the fact that one single largely to the fact that one single telephone company has secured such a footbold all over the country as to become practically a monopoly, and it is unwilling, unless compelled by opposing lines, to meet the necessities of the locality either in rates or

of the local, any other way.

The Bell Telephone Company
Canada was organized twenty-eigen that time, the Canada was organized twenty-eight years ago. Since that time, the cor-poration has expended about \$10,000,poration has expended about \$10,000,-000 in telephone development in the Dominion. So great has been the development of the company, it being the only one for 10 or 15 years after its inauguration in Canada, that it for some years controlled the whole telephone business.

The principal development of the system, has been in the urban districts and consequently it has been of very little use to the more sparsely settled rural communities. Towns and cities are thickly populated, Many interests are intermingled and

communication these is almost necessary. Phones could be installed in almost every house at comparatively little expense house at comparatively little expense and a good revenue would be forth-coming. In the country, on the other hand, especially in some districts where houses were few and far be-tween, the cost of installing a sys-tem would be comparatively large. To overcome this expense, the com-tion in many cases to such an extent as to place the system out of the reach as to place the system out of the reach of the average farmer. This, they or the average larmer. Ims, they could do owing to their monopoliza-tion of telephone systems, and, as a result, the development of the rural telephone system in the Dominion until recent years has been slow. Realizing the advantages prevailing

The Canadian

in regard to these matters, a number of independent telephone associations or megennent terphone associations were organized in Canada about three years ago. The organization of these systems was bitterly assailed by the Bell Telephone Co., they feeling that their interests would be very much damaged. Nevertheless, the development of these systems ment of these systems went on and has resulted in great benefit to the has resulted in better they have rural communities, where they have rural communities, where they have rules at a large stablished. As an instance of rural communities, where they have been established. As an instance of the development of the independent rural telephone system, it might be stated that after 17 years of Bell Telephone monopoly in the United States and Canada, only 300,000 phones were in existence. The in-dependent movement began in the United States 10 er 12 years ago, and in that time, the number of telephones on the continent has increased to 7,000,000, of which the independent npanies own more than half

Three hundred million dollars have been invested in the independent ser-vice in the United States in the last vice in the United States in the last 12 years and this is being increased all the time. The Bell company has until recently, practically despised the tiller of the soil. By so doing, it has jeopardized its interest to such extent that the farmer is satis-d to do without it, he preferring

to have his own system.

One of the chief obstacles in the way of the general development of the independent system is the delivering of long distance messages. Most of the independent companies that have been established are purely local, and here the Bell Telephone tocal, and here the bell releptions secures a triumph by coming along and offering long distance connection where the independent system has been installed, for a comparatively small sum. It must be understood, small sum. It must be understood, however, that about 97 per cent. of the telephone messages of the coun-try are probably local messages. Con-sequently, many Bell non-subscribers rather than connect their systems with the Bell, are satisfied to pay 25 or 50 cents for sending long distance messages over Bell lines.

It is clearly evident that the independent system is the most service-able for the rural classes, especially when it is considered that the Bell when it is considered that the Boll telephone is a company with a capitalization of several million dollars, whereas the independent system is conducted in the interests of the farmer and with no conglomeration of capital. One of the great advantages derived through the inauguration of this system is the competition which it has inspired, resulting in a perfection and extension of the Bell system in rural communities. There are now in the United States, about are now in the United States, about 7,000 of these independent companies, some of which control as many as 40,000 phones. The greater the extension of the system through Canada the greater will be the benefits da, the greater will be the benefits forthcoming.

. . Milking qualities and beefing quali-



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9

she is a poor beef producer, because sheep. I do not know of any animal she has a tendency to convert food into milk. When she is a good beef animal, she is a poor milker. The only difference I find between a beef bred steer and one out of a dairy cov is that the former dresses more, but the loin and other desirable cuts are as well developed in the dairy steer as in the one bred especially for beef.

-T. L. Harcker, Agricultural Experimental Station, Minn.

that requires less labor in its feeding and management.—Prof. G. E. Day, O. A. C., Guelph.

. . Breeding sows should have plenty of exercise and be kept in good con-dition but not too fat. They should not be fed very much for a day or two after farrowing.—Wm. Smith, Brant Co., Ont. De 30 30

mining qualities and beefing qualities are dismetrically opposed to each other. When a cow is a good milker involved in taking care of a flock of Poultry Exchange.