well-to-do farmers seem to favor the small outfit, although that is a rather hard point to give any definite opinion upon. The thresherman, take it all around, has a hard lot, and anything that are hard to half the fraterity should be shown to half the fraterity shown the fraterity shown to half the fraterity shown the fraterity shown to half the fraterity shown to half the frate that can be done to help the fraternity should be given favorable consideration.

H. N. BINGHAM. Sask.

Believes the Course One That Every Young Farmer Should Attend.

EDITOR FARMER'S ADVOCATE:

I take this opportunity to say a few words about our course in the Agricultural College of Manitoba

The course includes everything bearing on agriculture and I do not think there is a single subject that could be left out. I think it is just what every young man should have before starting out as a farmer. The principles underlying agriculture are taught, and also those underlying other branches of work that go hand in hand with farming. A man learns the why and is therefore able to work intelligently. He learns in two winters what other men have learned from years and years of experience.

Although I liked and appreciated all the subjects, yet I think I liked agriculture the best. The subject is very interesting and of practical value to the farmer. It comprises the study of the soil, its formation, com-

of seed grain. ment; also the selection and judging of the various

mechanics, veterinary science and dairying. We, as and finally to the trust. well as any other business or professionalimen, must or should, know all about the ins and outs of our on account of the introduction of complex machinery ind duting against the last

society. We received much benefit from this, as ship, or development to larger outfits could be seen from the improvement the boys made Some years ago the threshermen in conducted and also in the manner of speaking.

tions as are before the province to-day. By united of sixteen members was formed under a provincial effort we think much can be done. I think that charter, with \$5,000 stock subscribed by members. Manitoba will receive very much benefit from the Agricultural College at Winnipeg.

HARRY N. THOMPSON.

Rape on the Summer Fallow.

Some few have tried a light sowing of rape the outfit was to be paid out of the stock. given by the cattle. A short time ago we holders for deficits. queried a stockman who has tried this method Last year the directors manned the outfit, gave for years and although he does not condemn it the manager a free hand to thresh where he could a result the young cereal plants are killed by the the proposal was made to draw on the stock for the early spring frosts, or there is increased liability deficit the majority decided that the time had come to grubs which have found a suitable host plant for the outfit to go under the hammer.

This company was too large. To arrange a rotamentioned cannot be overcome, he suggests playing the appropriate the first time had come that the majority decade that the hammer.

This company was too large. To arrange a rotation that would satisfy sixteen farmers who were nearly all ready to thresh the same week was impossible to grubs which have found a suitable host plant for the outfit to go under the hammer. mentioned cannot be overcome, he suggests nearly all ready to thresh the same week was impos-plowing the summer-fallow late in the fall and sible. To distribute shares and adjust rates so as to one-half ordinary wagon loads. The wheels are running the packer over it early in the spring, make an equitable distribution of obligations and five inches wide, and will not cut up fields so badly as and if this does not have the desired effect to benefits is mathematically possible, but to apply a wagon, being a good advantage in a grass or grain sow the land to barley. We should be pleased such adjustment to a group of co-operating farmer's to have the experiences of others who have seemed impossible. The expense of a provincial coarse manure made much finer than it can be made tried this combination method of soil packing charter is in my opinion unnecessary for such a and pasturing.

Would Sow Timothy.

humus in the soil, and I wish to say that this is likely better results than co-operation

with us so far, but some are taking to seeding with in such concerns. It must also be conceded that grass as an experiment. Others think sowing bar- co-operation is necessary to regulate rates where I have observed that timothy is the best grass seed management with those of co-operation in the to sow, not leaving it more than two years. It may production and distribution of agricultural know be sown with any grain crop and appears to be a sure ledge. These reciprocal benefits, together with ten be sown with any grain crop and appears to be a sure enough grower if there is plenty of moisture. I believe in putting all the manure I can get on the land, hauling it as made during the winter. We spread it evenly and then when dry in the spring burn off the straw so that it can be plowed in with satisfaction. The burning also kills most of the no cramped quarters, nor manure heaps for the grain, to grow through to have an adequate grain. seeds in the manure. I take about three or four thresher to go through, to have an adequate supply crops off after summer-fallow and then fallow again. of water and fuel, to make prompt payment, etc. I have plenty of slough hay so far, but think the and it appears to me that any thresherman in the cultivated hay is better as it is more healthy for district will give reciprocal advantages in rates and horses. I have been farming here for over twenty careful threshing. rears, and land seems as good as ever it was when fallowed properly.

JNO. DEYELLS. East Assinaboia Municipality, Sask

Advocates Private Ownership of Outfits.

EDITOR FARMER'S ADVOCATE:

position, and cultivation, maintenance of soil fertility, by farming being regarded as an industry, but if nate this waste by perfecting a motor that can be Another subject that I thought very much of was like the nebulæ of the astronomers, out of which in expense is gradually working that way, and if Edi machine suited to put the labor stamp on some par- be the success claimed for it, threshing will gradtypes of the different classes of animals.

These two subjects are of the utmost importance to us, as farmers, but I am sure we cannot afford to do without a knowledge of English, mathematics, management from a partnership to the corporation

machine suited to put the labor stamp on some particular raw material of the farm formed the nucleus to the success claimed for it, threshing will gradually find its way back to the farm, and the size of a new industry. Gradually the machine developed from the simple to the more complex, and the sary to run other farm machinery.

Woodlands Municipality.

A. M. Campbell.

Now threshing is one of those industries which has broken away from the farm, and if we reason From the practical side I am sure all the students from the analogy without regard to logical prewill agree with me that we got our money's worth in good measure, and by intelligent work I think we towards larger outfits, etc. On closer investigation would like to give my ouinion on the manure spreader shall prove it this summer. From the social standit is seen that all the specialized industries put the invested money on any farming implement that their games played for all they were worth.

There are two associations that willido much for rates beyond a fair profit. Farmers could next it which I use for unloading, and can unload in less manitoba, the literary society and the research association. The aim of the literary society and the practically ruin some of the threshermen. This I have been keeping my yard cleaned out all winter are the practically ruin some of the threshermen. This I have been keeping my yard cleaned out all winter rates the practically ruin some of the threshermen. the boys as to the proper ways to speak and also to condition, the short period in operation, the amount with the manure spreader, and have used it every conduct meeting of various natures along parlia- of capital involved, the scrub gangs of unskilled winter since I got it. I have had mine four years, mentary rules. To be able to think and speak clearly workmen of the migratory class, and the undesirable and up to now have on lylaid out one dollar for repairs. and readily before others is the principal aim of the nature of the work, all tend to restrict private owner- I think I am right in advocating the manure spreader

during the winter, both in the way the meetings were formed a combination and raised rates beyond what twenty years will still find it doing the work. was considered a fair profit. A meeting of farmers The research association, to which all the boys followed and satisfactory arrangements were made glong, has for its aim the answering of such ques- for that year. Next year a joint stock company A board of five directors was appointed to manage Editor Farmer's Advocate: the concern and a large Battle Creek Advance outfit purchased. This enterprize was a success in so far as the object for which it was undertaken was concerned. Rates were struck to cover running expenses, and

Year after year wages rose till last year they were on the summer-fallow with a view to securing about double what they were when we organized, some pasture for cattle in the late summer or early but we could not agree to a commensurate advance fall and with the greater advantage of packing in rates, as it was profitable for the larger farmers the soil down well by means of the tramping to have low rates and if need be draw on the share-

small concern, while a board of five directors is too enimbersome in a business that can be more efficiently handled by one.

Would Sow Timothy.

EDITOR FARMER'S ADVOCATE:

I have read the articles in the FARMER'S ADVOCATE as a business. Hence we must mier that the nature of late, re soil fertility and seeding to grass to keep of the industry is such that individual effort gives

executive ability to keep things running smoothly. to be a very important matter with us before many
It must be conceded that private ownership and
It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be conceded that private ownership and It must be concede It must be conceded that private ownership and

If, I however, conditions arise when co-operative ownership and management is necessary, the num ber in the company should be limited, and one mem ber should manage and accompany the outfit.

When one considers the waste in agriculture from the number of traction engines that are rust ing in sheds or in the open for ten months in the year the number of horses that are eating their heads off In connection with the question of threshing, I for six months, the amount of money in windmills. may say that much confusion of ideas has arisen etc., the tendency for the future should be to elimi plant food, plant-growth, and diseases of plants. an industry is a distinct line of business, then farm- attached to any farm implement or machine. Steam The subject also enibraces the selection and judging ing cannot be regarded as such. Looking back power will never fill this need. The gasoline outfit through the historical telescope it appears more which combines lightness of carriage and less labor animal husbandry. This takes up the study of the the gradual process of evolution, industry after son's latest invention of an electric motor that can various breeds of animals, care, feed, and manage- industry has been formed. The invention of a be attached to any farm implement or machine will

Defends the Manure Spreader.

EDITOR FARMER'S ADVOCATE:

point I think we received much benefit, both from labor stamp on transportable raw material, and invested money on any farming implement that being associated with, and acquainted with, men operate the year round, which provides for skilled gave so much satisfaction. Have never had to put who were 'doing things." Our lecturers were first-workmen; while the thresherman puts his stamp three horses on it to do the work, and think with rate men, ever ready to left a helping hand, and each on material not transportable to industrial centers. the manure spreader one man can draw out as much and every one was highly esteemed by us. The boys Hence threshing must always remain a satellite to manure as two men can the old way, and it is much themselves were bright, generous, good-hearted the grain growing industry, and as such is absomore satisfactory, as it is spread so much more evenly fellows, who worked when they worked, and when at lutely under the control of farmers themselves. and not only as a manure spreader, but for drawing

hip, or development to larger outfits. as a farm implement, one that no farmer should Some years ago the threshermen in this district be without; and I also think, by taking care of it

RICHARD YELLOW.

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Good Words for the Manure Spreader.

I should like to say something about the manure and spreader question. I think this subject cannot be too well considered, as it is a very important item to the

I apply manure with the spreader in the spring at the rate of twelve loads per acre for top-dressing grain, and eight for grass, with a medium-sized machine, with good results. This way is better than spreading by hand in winter, as the machine does a better job, covers more ground with the same manure. and spreads it more evenly. There is also less loss in this way, because the winter-applied manure will altogether, he is not enthusiastic, for the following reasons. Either it leaves the ground too hard, especially in spots in the hollows where be considerably washed away by spring rains. It hard, especially in spots in the hollows where side machines. When the outfit pulled in it was found a machine for three years, with a cost of \$1.25 for the plowing may have been too shallow, and as that receipts did not cover expenditure and when repairs, there being two tires set, and one link or drive chain. The spreader will spread faster than five men, if they will cover as much ground and do as good a job. With a good team you can spread a load in from three to four minutes on an average. with a medium-sized machine, spreading twelve field. The manure is distributed very evenly, and by hand with a fork. On a farm, where from two to three hundred loads of manure are handled yearly. the spreader will pay for itself in a few years in extra profits, as you can put the manure where you want it most, and with best results. A machine, properly

GEORGE SHARP