to believe, has nover been touched in any way sinoe it was mude, vearly fifty years ygo, ether by disturbing the sod or applyigg manure: at all ovente, I can answer for the last thirty years, since it has been in my possession. The soil is a light sand and the natural grass that grows on it is a stunted redlup, so stuated that it never requires mowing. Last spring, tinding the grass very thin, I applied a dressing of hard woodashes, and in a very short time I found the whols covered with white olover, whioh cortaialy never showed itse ${ }^{\circ}$ pre viously. Now can you or any of your readera cither praatioal or soientific explain to me where the white-clover seed oame from? It certainly did not come from the ashes as they had never been exposed since they came from my furnace. Neither will the old theory of the seeds lying dormant apply to this case, for if the seeds were suffioiently near the surface to ve. getate, it is certain that they must bave germinated loog ago, as the sun, and moisture aro sufficient to cause secds to germinate, cyen should they not be able to grow siterwards for lack of some of the neoessary constituents of the plant in the soil. Had the ciover only shew itself in spots, I might have presumed that birds bad carried the seed there, but it is inconceivable that a fhole lamn should have been sown in a month or so by this agenoy alone. The matter yours, remains a mystery to me.
E. J. H. Eimina.

Dr Hemming's questiun resolves itself into this: There was no siga of any clover on his raised bed of light sand, and yet when a dressiog of wood-ashes was applied, white-clover, which certainly never showed itself previously, sprang ap profuscly.

My orn solution of the question is this: The seeds of the white-clover were in the soil, but, though when rain came they sprouted, the want of proper food prevented the ting plants from developing themselves, and they perished in conscquence. After the dressing of mood ashes, other platis finding their pcculiar sustenance-potash and phosphoric acid-ready for them, seized upon it, and throve abundantly. leag give no other reason.

## Abthur R. Jenner Fust.

The nef farm machine "The Strawsoniser" claims to be able to deal with insects pests in a mannor not before attempted. Certainly, it is worth attention; for whether in the sprcading of liquid or of pulverized matters, in big or small quantities, its results are quite phenomenal; while easily dramu by one horse, it will broadeast 30 to 40 acres of barley a day, will spray tho same ares of turaip land with parafin or other insecticide, covering every leaf and hade with a fine dew, will work equally well through a hop plenta iinn, throwing clouds of spray twenty feet into the air, and will distribute soot, and especially powdered lime, over a great area and vith superhuman precision and crenness. (1)
T. Bowick.

Price of grain.-To sead in the market-reports, in the liontreal Star, thai "oats are worth 85 to 90 cents a bag of two bushels, and pease $\$ 1.00 \mathrm{a}$ bag, is rather startling. Pease at 30 cents a bushel must be rather cheap food for cows, bay locks, or steep, and I should be inclined, if I could get them at that price to begin a stock for my horses. Fzioy pease at $\$ 16.50$ a ton 1 But of course the reporter made a blunder between bushel and bag. Pease, I regret to say, will be very dear this year; the haulm, even on the high ground, keeps on growing and groming, the flowers are produced, but the
(1) I mean to apply for an agency to sell this inraluable machine, A. R. J. F.
pods do not set. Cotton-sed-ake will be the oleapest food for cows, as a bad year for pease is almost always is bad year fo. linseed, exocpt on the lightest soils. (1)

Hoskins on Dodge.-The following, from the Vermont Watchman. has been mislaid since February - it is too good to be lost. The report of poor Mr. Dodge placed the average potato crop of the United-States at 83 bushels an aore!
"Troublel about our lotato statistics.-Our friend Jenner Fust of the Montrea! Journal of Ayriculture has been for some time suffering distress over the unfortunate conditiou $\therefore$ American potatogrowers, as set forth by that wouderful statistician, Mr. Dodge of the Washington burean. According to Doing, as figured out in detail by Jenner Fust, the potatogrowers of A meriaa must suffer a loss on the average. at thirly cents a bushel, of not less than 316.50 yer acre -" to be recorered from the succecding crops of the rotaion." "What does it means?" inquires our friend. Brother Fust, did you never hear of the bad boy who puzzied some of his mother's visiters bs propounding a problem, as ollows: "That boy in the garden is the son of my mothers sister, but he is no relation to me." A good deal of menial strain on the part of the ladies, but no satisfactory result, until the waternal parent entered, and settled the matter at once by remarking that "the boy lied." Just so with Mr. Dodge. Any "statistician," no matter how full his skull may be of gigures, who declares that the potato crop is govn at a loss in the Trited States fails to state facts as they are. The potato is unquestionably one of the tro or three most profitable farm crops grown on this continent; and if the figures gathered at Washiagton do not so shovy it, those figures are lyrong."

## Continuous Winter Stabling for Cows. JOFN GOULD, OHIO.

Last winter I practiced the advance idea in riirying, and kept the cows in the stables for $\mathbf{i} 20$ days without lettiag them oat, and never before rintered my coms so cheaply and well. Never before did they " come throagh " looking as fine, and so free from ailment. The barn is very warm, the thermomether never bat once going below forty-five degres above zero, the air parc and fresh, and the stable abundantly sapplied will light. A large covered tank in the stable supplied from a deep, rock well afforded the best and finest of water. The idea that a cors giving milk, needs exercise to keep her in health and vigor, I now thiok a mistake. No one thinks of lriving his fathening hogs or stecrs around for exercise, and the secretion of milk is a similar process to secreting fat.
I do not confiac my corss with stanchions, bat chain them in pairs, io half box stalls, giving then plenty of freedom so far as movement is consir nt with safety. A good bed ander them and plenty to eat before them, has mude them perfeetly contented, so far as I con'd see. They shor. d no inclination to want to go out, and I finally made up my mind there was no necessity for it. They could lie down at their ease, and the neck-chiin was long cnough to enable them to sleep with their heads on their sides if they wished. To me it was far nearer an ideal way of wintering oows, than to trin them vut into stormy or zuro weather to make them hardy, or contract constitutional vigor. I am now fally satisfied that it does not pay to attempi to warm barnyards with cows, or to use hay and grain to warm ice-water inside of a cow's hide. The cows were fed silage, brau, and a littlo clover-hay, and gave summer messes of mill all winter. I have this summer mado calculations

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[^0]:    (1) Potatoes, which fetched, here, 50 cts a bag in S1.00, and poor ones too.

    May, ars now A. R.J. F.

