rpenses as the same quaiity of lands (stiff, dijey, adhesive, collapsing as they are) do in fyland with her fourfold outgoings. I shall pals go back to 1801 , before the powerful kimulants of Chemistry now in use were known, tither by agricultural or horticultural men, and dy a single block scarifier, with $5 \Delta$ hows, thich produced 48 to 60 kushels of barley per me, was used; but the lands berem desuribed rare pllfarmed, being sept clean from weeds and not ercropped, and no machinery in use except in b mining districts. But great crops were merally grown by men of steady attentive pits. I have known 40 to 60 bushels of wheat, 1 bushels of beaus, 40 of peas, 48 to 60 of uley, and $S 0$ to 100 bushels of oats at acre of 160 rods, and $2 \frac{1}{2}$ tons or more of reer hay grown. Great changes have taken ace in England in the last 45 years; a generayn of good agricultural men swept away, pauas and taration quadrupled, with other outgogrg greal, so that with all the machinery, frerfil stimulants, \&c., the average produce it acre available for the whole empire, does גseom to exceed £3 15 s .; instead of £5; so 2t I fear the pooz farmers hare not a comthable fireside as tormerly. But, MIr. Editor, ist is the clay land of Canada to come to? poveity struck garden, or laud of thistles, par grass, purse weed, rag weed, crotch weed, art weed, \&c., all for the want of a regular od four course system of farming, such as a to be done in England in this and the last zary. I warrant this plan would do well If not, let Jethro Tull's plan of one crop d fallow alternately be practised, as I know aty of land that cannot be cleared of weeds 1 well fertilized without it. My plan would to plough the half of sych lands not very $x_{p}$, say $4 \frac{1}{2}$ to 5 inches, early in the fall, to pothe roots spreading; then in the spring, as fas the thistles are fairly up, take a good Pifier, with say three inch wide tines or hows, bieak the ground, or pulverise it 3 or $3 \frac{1}{2}$ inches制 and shortly after (say one or two weeks try when ike thistles are up, fill the second bind block with good A hows 9 inches wide, sa scarify it again: This cutting them under piund will set them bleeding or running their pto waste, more than twice or thrice mowing an down, for in this dry climate the wounds Izp immediately, and some of them will soon in fower and ripen the seed, which the winds read in all directions. When they get fairly prin ground, scarify it again, (the cost msy be gi Xork shillings:per scre), it is much better Ncheaper thai turning the furrows up and cin with bad ploughs, than leaving the weed ${ }_{2}$ bound up in the clods for future years, the burming the fertility out of the soil, and mat half the weeds missed by fioe or six inch 4. ahares, used with bad ploughs to ture far mlo and 12 inches, wide, and 7 to 10 inches Th on which I nẹver aniv haif ocrop of grain
grow yet. It promotes mildew, and I know no one here who couid spend so large a sum on pioney, and so many years of doubled hard labor as it would require to pulverize and fertilize such lands to make them yield any profit. 1 prefer the cultivating well of 600 tons of soil per acre for grain, to 10 or 1200 tons, as the former has produced always good crops for me, but the latter never did. It does very well to raise oak timber, I found; and the Commissioners of Crown Lands in England profed this in the last century by cutting the tap roots off the Foung itees tu make tine roots grow horizontatly , and in 18 years they were as large as those planted with their tap roots left on to grow perpendicularly down into the subsoil in 45 years. The arable land of Mr. Beetson in England, which he cultivated entirely with a good scariGer, . nd only drew a single furrow to mark ont the stetches 7 feet wide, to carry off the surplas rain water that fell upon it after the grain was sown and harrowed. in, produced him, on this new system, a clear profit of three hundred and sixty pounds sterling a year, (and he only cultivated 110 acres) being three times as mach profit as he had received before. I cannot understand why 80 many farmers are so desirojs of ploughing these clay lands so deen, as I know none that will require it, and very, very few that will bear it. It is truly hard for horse and man, and kills the fertility of the soil for many years, causing great outlay without profit in most cases. Indeed I know many farms that I would not accept as a gift to farm myself, even under the mania thait I have had for agricultaral parsuits, and horticultural also; for in seeing these well practised, de! ights me more than all the professions in this extraordinary worid; bat I think, Mr. Editor, that if I were to carry (8ay only five tons) of the soil that I usually see turped up with these ploughs to a sound, practicai horticalturist for him to grow his tropical fruit in, he would look very serious, and very likely think that $I$ must have made my escape from a lunatic asylum very lately, for tropical fruits require a soil that I believe would grow 70 boshels of wheat per acre, and other kinds of grain in proportion. Even in the land of Canasn, splendid crops are grown with only stirring up their lands with a Greek plough, which is of the simplest kind, made with wood, having, a fair length of bottom and beam, a short handle, a double winged share, but no monia boarid: and one loorse, or a pair of mules, draw it easily. But in this fine grain groving conntry I thirk the ploughs made and generally mised in the counties of Essex, Suffolk, and Norfolk, Ing land, in the last century and beginning of thith, by far the best thal I have seen anywheree I have seen: sqund, fretty good land ploughg jin Canads, which produced from 1 to of biahele of wheat per acre; of peasj from 6 dowto I had as high as 12 huehele per scre, and oats from 7 to 16 baghels per. acre; Indian eorn from 9 ti: 15

