up the channels with the crusher. In spring the crusher is again employed in compressing the wheat plant, after which the hand and the handhoe are busy between the rows, so long as it is suic, and then comes the last scene of all, the sickle and the harvest home.

Sum up, then, the annual average outlay for the wheat crops, from first to last, always keeping in mind the digging process I have described, how it begins with one shallow spit the first two years, increasing by degrees to two good spits of pulverized soil, two or three inches of solid elay being added, and for years not even that.

The very natural question here arises, How is it that, by so simple a process, willout manure, the same acre of land is enabled year after year to yield such a produce of wheat? There are ome few favored spots in England so rich that hey produce, without any dressing, a constant uccession of heavy wheat crops, by the ordinary way of farming. "If my land were like hat," says Mr. Smith, " it would even then be urprising that forty bushels of wheat should ver be reaped from the moiety of the acre." but his clay piece is really nothing but ordinary neavy wheat land.

Just one thing more and I have done. Mr. mith uses no manure for his wheat erop. as he nds the use of it too enriching. "Add manre," he says, "to my deep and thorough tillge, and well-fed intervals, and the crop would e too luxuriaut, and blight on the spot, or ome down and mildew." He fears even the nallest remnant of by-gone dressings, and deends wholly on mineral food from below, and a frost accumulations of atmospheric ammonia posited from time to time in the soil, and its ntinuous, never-ending flow from the same _twral sources.

Using, then, no manure for wheat, he has a uble supply for his other crops. Manure well ixed and weil-made, from well-fed animals, inuding night-soil, liquid and solid. I will only stance his winter bean crop. I give here the ocess of its cultivation in detail, because, like e wheat crop, it is grown on the same acre of id, year after year. and the plan, like that of e wheat, is now reduced to a system. I give for another reason: it meets a very serious advantage in the ordinary growth of the bean p—viz., the apparent impossibility of keeping clean. The weeds are scattered broadcast at ping, and the foul straw, carried to the yard, petuates in manure the incradicable evil. t look at his crop grown in single rows, five tapart! (I should prefer double rows.) The t apart! (I should prefer double rows.) nt is now up (November,) and in the centre the interval there is the single row of last r's stubble. He will shortly broadcast and rify, and stir the whole interval, strike a deep row in the line of the stubble, subsoil it, and ugh into the channel a heavy dressing of nure, and leave it for the winter. In the ing, in preparation for the next planting, he s and mixes the whole together, continuing the cleaning process until he is shut out by the present crop, which, in June and July, will cover the land, as it were shaking hands. There is hardly a veed to be seen, and not one in flower throughout the year. The produce in 1858 was 42} bushels, though dwindled by the heat. The year before it was 44. The year before that it was 504 bushels. And most probably this year, 1860, being in double rows, (another row being introduced in spring to repar the broken plant, the unusual cold and wet winter having ruined it,) as 1 estimated when 1 saw them growing, will exceed 60 bushels—from, I repeat it, single or double rows of beans five feet apart.

I will now introduce Mr. Smith's balancesheet, showing the actual average outlay, yield, and profit, at the *lowest* rate of produce and value for 14 years:—

Digging and cleaning the moiety of	£	s .	d.
Horse-hoeing ditto three times, and	1	14	Q
plough, 4s	0	10	0 ,
Hoeing and weeding Rolling with crusher at seed time and	0	5	0
at spring, 1s Two pecks of seed. 2s. 6d. : dib-	0	3.	0 ,
bling, 5s.	0	7.	6.
Bird keeping	0	4	Q,
Earthing up wheat	0	3.	Q
Reaping, &c., to thrashing and mar- keting	0.	13:	0)
Rent, £2; rates and taxes, 4s. 3d	2	4	3
	£6	3	9
	£	s.	đ.
34 bushels of wheat, at 5s	8	10	0
1 ¹ / ₂ tons of straw, at 40s	3	0	0
E	E11	10	-0
Deduct outlay	6	3	9
Net profit per acre	£5	6	3

The principle is perfect and clean cultivation. without manure, and without producing sterility in the soil, and cropping only half the land. every year; against imperfect husbandry, with abundance of costly stimulants, and cropping the whole of the land only every four years with corn and wEEDS. From the moiety of each acre, in the year 1858, was upwards of forty. bushels of fine red wheat, with an estimate of The produce of 1859 and two tons of straw. 1860, are not yet published, and it is probable they never will, though both these crops are likely to exceed any of the former, as Mr. Smith scorns the idea of publishing anything which savors of puffing of any of his doings, even when they are well substantiated. He calls it the movery of each acre, for so it actually is; for a full acre of wheat in 10-inch rows contains, we will say, 120 10-inch divisions. Take away, then, every alternate three rows, an: you have the Lois-Weedon with only sixty rows, being the exact moiety of the acre of wheat. In the year 1857 the pro-