three fourths of the entire area is under strict enserious that an Act of Parliament, entitled "The Montgomery Act, 'was many years ago obtained, enabling life owners of estates to lay out money in permanent improvements, and make it a mortgage charge upon the inheritance. It is to this Act that Scot'and mainly owes the high agricultural position she has attained; and it is not a little strange that, seeing the benefits tangibly exemplified, England should have been content to remain so long under the disabilities, without an effort to obtain the same facilities; for it was not till the Session of 1812, that Mr. Pusey's fast Act for the Drainage of entailed and settled estates, in England, was passed.

What high proces failed to promote, in any prominent or effective degree, lower rates have as invariably necessitated: for to the great body of "lyages consumere nati" it taatters little what the prevaiting influence be, so the essential object, of food at reasonable prices, be obtained. Now the use of bones as a fertilizer, is one of those practices, the introduction of which is a landmark in the history of English Agricultme, and is singular y concurrent with improved culture, based, as its adoption was, on sound chemical deductions. And not only so, but, curiously enough, by comparing the declared value of bones imported into the United Kingdem, with the average price of wheat in the respective years, it will be seen that their increased use was during, or immediately following, the successive periods of depression in the value of pro-

In 1821 the value of bones was	
1921 it increased to	43,911
1627 it was	77 956
1830 it declined to	58 223
1813 it advanced to	97.900
1831 it again advanced to	127 131
1836 it was	
and in 1837 it had reached	254.600

Thus the use of this manure commenced with the low prices of 1821, '22 and '23; it decreased considerably under the higher averages of 1828, 229 and 230; and again pressed into the field, by the low rates of 1834, '36 and '36. It: importation became a settled and greatly extended traffic, which has gone on increasing ever since .-Guano was introduced at a later period, and will alike justify the same conclusions. It also forms a prominent datum of Agricultural progression.

It may be readily inferred that the extension of mechanical appliances, to the various operations of the farm, was, in a great measure influenced by the same causes which tended to the use of artificial tillages; and that their more general application and usefulness were secured by slow and gradual steps, as examples of their efficieucy and economy, were from time to time afforded by those whose energy and intelligence led them to incur the risk of trial. These examples produced their fruit, and in due time Thrashing Machines, fixed and portable; Seed Drills; Straw Cutters; Cultivators; Horse Hoes; Improved Ploughs; and finally fixed and portable Steam Engines: Drain Tile and Pipe Machines, &c., &c., made their appearance, and are realising all the advantages that' were anticipated .-

The Royal Agricultural Society of England was tail and settlement, the evil was felt to be so established in 1838, and held its first Annual Exhibition of Implements, Cattle, &c., at Oxford, the following year: and since there is, perhaps, no more certain indicator of the progress of Agricultural Mechanics, than the Meetings of this Society afford, we will give the number of implements entered and exhibited at each successive show :-

Entries	of	Imple	ments	and	Machines:
1210		v Carel	11	*****	. 97

lii.	1839	211	Oxford, there were	23 entries.		
	1510	111	Cambridge	36	do	
			Laverpool,	312	do	
	1812	nt	Bustoling	455	do	
	1313	nt	Dertoy	£03	do	
			Scuthampton	913	do	
			Shewslury	912	do	
			Newcastle	735	do	
			Northampton	1321	do	
			York	1503	do	
			Norwich	1976	do	
			Exeter		do	
			ged in the Great Ext			

As showing, at the same time, the increasing anxiety of the landowners to commence their part of the great work, in a primary improvement of the strong and wet lands of the country. it may be noticed that no machine for Drainage purposes, or the manufacture of the materials for drainage, was exhibited till 1843, when two were shown, from which time they gradually augmented to 17, as the largest number. these machines the cost of Diainage work has not only been reduced one half, but its extension has been rendered effective and durable; and when we assert that no single machine was ever introduced into Agricultural operations, which has produced the same extent of beneficial results in so short a time, we do not exceed the truth, or do more than common justice to the patriotic intelligence of those who have appreciated and applied them. Speaking of Drainage in his deservedly popular article, "On the progress of Agricul ural knowledge during. the last eight years," Mr. Pusey remarks, "Drainage, at whatever depth, for some years known to be profitable, is now indispensable. being only checked by want of means; and it is well that the cost of materials is so greatly reduced by Tile-machines, which can deliver their goods like the new printing-press of the Times, at a score in a minute-that instead of paying, as I have done, 90s. per 1,000 feet, we now get . pipes at 15 .-- one-sixth of the former rate."

With the single exception, perhaps, of Railways, there is no operation which has received a greater share of public attention, or been more thoroughly and ably handled, than that of Drain-It is now about ten years since its great a_e. practical advocate, the late lamented Mr. Smith, of Deanston, infused new life and impetus into the subject, by recording his own experiments, and giving directions for the better performance He was soon afterwards induced of the work. to co-operate with the writer, and others interested in the subject, in an endeavor to establish a Public Company, with fitting legislative provisions, for the Drainage of lands; and it was from

[·] Journal of Royal Agricultural Society of England, No. 26 for 1850, page 402.