BONES AND OTHER SPECIAL MANURES.

ground or crushed.

We have inquiries as to the best and cheapest method of preparing bones as a manure for green and grass crops, to which we now propose giving some explanation.

The Society's Journal, since its establishment in June, 1852, has devoted a great deal of space to the publication of chemical and practical information as the preparation dissolve the bones:-- He says and application of bone manure, phosphate.

and superphosphate of lime.

true, and practically proved. At the March in the centres; and the outsides, to the depth of agricultural subjects, we read a paper on there the heat was insufficient. TURE,"

Agricultural Society's Journal," the English commendation of a new practice, I waited which cannot be said to cost anything. It Agricultural Journal," and other sources of for the result of another years' trial, which I is within reach of everyone to practice on a forther sources of the result of another years' trial, which I have said and it a few day's notice. Though an undoubted and very useful nature. These will now lay before the Society. experiments show that, scientifically and prudently applied, especially in conjunction with common turnips. The object was to sake of experiment, any light losm would no with farm-yard dung, they are of great value in farming and very productive both for green and white crops, and for top-dressing meadow ground. At present we confine ourselves to the latter branch of the subject-the bones and special manures beneficial to be applied to top-dressing as meadow ground.

I. BONES-DISSOLVED BY LIQUID AND SELF-FERMENTATION.

verted into superphosphate. It is twenty-five tons to the acre. five years ago since bones were self-fermen-

practice prominently forward (Vol. 8, p. mixture are valued higher than two bushel of A correspondent enquires of us about bone mode of preparing bones for manure." process one foot in four, showing, as I had manures. We copy the following from the That what Mr. Pusey calls a new mode—suspected, that, from the shrinking of the Journal of the Trish Society." There was an old method, not sufficiently put in bones, there would be more than two bushels are Mills in Montreal where bones are general practice-signifies very little, pro- of bones in three of the mixture. vided the system is good and economical.
We are satisfied that it is a good method of disselving and applying bones, and we therefore recommended it long ago, more especially in our paper of March last, and again urge it for adoption. And to enable the farmer to carry it out we now give Mr. Pusey's explanation of the plan adopted to

I prorured three cart-loads of crushed bones, and, having wetted them, mixed one as I had hoped it might be, and both precart-load with two loads of pent ashes ano-parations show a large saving as against un-The importance of various genuine and well-made superphosphates has been strongly pressed upon the farmer; and, by the republication of the Lockerby, or Annuale Farmers' Club tables, of inspected turnip crops during the last three years, a great amount of evidence has been afforded of the efficiency and value of applying bones, superphosphate, and guano, with common farm-yard in nure. Of this, no manner of doubt can be entertained. It is chemically true, and practically proved. At the March Evening Meeting of Council, for discussion there the heat was insufficient.

The experiment baving so far succeeded, " THE SEVERAL KINDS OV MANURES WHICH the next step, of course, was to try the effects mend decidedly the mode of preparing bones IT IS ADVANTAGES TO APPLY IN AGRICUL- of the dissolved hones on the land, and in which I propose, and, but for the mistake of May, 1846, they were used upon half-acre my men in mixing so small a proportion of We beg now to refer inquiring friends lots of early turnips in equal proportions; the sand, I believe the effect would have been and readers to that paper (No 10, Vol. 2nd. crops produced by each mixture were equally stronger. Practically 1 think that the page 302), which condensed a great variety good. But as a single experiment does not, manuring virtue of bones is increased from of experiments selected from the "Highland I think, justify one in putting forth the re-three to four fold by this simple process,

> the other, with hones dissolved by sulphuric selves are likely to answer; and the labour acid. called superphosphate.

The land is a hot stonebrash newly taken the quantity of bones applied should be in hand and very much out of heart. Bones between 5 bashels and 8 bushels per acre, act upon it very strongly; for the trial lots Bones prepared in this way do not produce are part of 70 acres of turnips and Swedes, at first so lively an effect on the young plants a good crop produced by superphosphate as bones prepared with sulphuric acid. Thus, Here we have a sterling material for top-notwithstanding the drought; but wherever in this trial, lot 6 looked for many weeks dressing mendow ground, especially when that preparation was purpos ly missed, the worse than its neighbours, yet in solid food dissolved into bone earth, though not con-yield was not more than four, or at most, that lot has turned out the best of the whole.

FIRST EVDERINGER

ĭ	THE MAN INCHES							
-	Cost of manure Produce,							
	Bushels of manure per acre per acre.							
ì	per acre. £ s. d. £ s. d.							
;	1. 17 bones 4 6 9 13 5							
	2. 41 sulphated bones 1 2 9 14 5							
,	3. 81 heated hones							
	and sand 1 0 9 13 5							

The amount of produce was nearly equal,

Cost of manure				Produce	
Bushels of manure per acre.			per acre.		
per acre.	£	s.	d.	£	s. d.
4. 251 bones	3	10	0	14	5
4. 251 hones 5. 71 sulphated hones	2	3	0	13	- 5
6. 121 beated bones.	- 1				
and sand	1	11	0	17	1
5 Nitrata of soda Sea	3/1	nlea	tha	follos	win.

The result of the whole seeems to recomlarge scale and at a few day's notice. Though It was made in July of the present year | mixed barren sand with the bones for the test the new preparation by comparing it, on doubt answer as well or better-the soil the one hand, with unprepared bones, and on itself in fact, of any farm where bones them-

lis so trilling that it is not worth speaking of.

This mode of preparation has been tried, The trial was made on the supposition at my suggestion, by a neighbour farmer, ted with water or liquid manure), and applied that certain quantities of each manure were Mr. Edmonds, who mixed up 80 bushels of in making earth composts which grew ex-likely to yield equal produce; and it was bones with sand in a single heap of a circucellent crops of potators, turnips, &c. We proposed to test the difference, not of pro- lar form, and having applied them at the rate knew a Dumfrieshire farmer who regularly duce from the same cost of manure, but of of eight bushels per acre, tells me that he dissolved bones with liquid manure, and thus cost for nearly the same amount of produce, shall benceforth use bones in no other manner. vastly economised the expensive ingredient The mixture was made in this case by throw. This is, no doubt, the right shape for a heap, of sulphuric acid. This he did ten or twelve ing together a waggon-load of crushed because the exterior being cool will always years ago.

Latterly, Mr. Pusey, Editor of the "Journal of the Royal Agricultural Society of heap, however, heated violently, and was in bulk of bones is necessary, I think, to pro-England," has brought his highly important a few days fit for use. Three bushels of the duce the heat, and the bones, as well as the