SALT AS A MANURE.

TO THE EDITOR OF THE LIVERPOOL MAIL.

Sir,-I beg to call the attention of your agricultural readers, who are in the habit of using guano and artificial manures, to the fact that most of the carbonate of ammonia contained in them, or generated during their decomposition in the soil, is quickly evaporated before the plants derive any benefit from it. At least 20 or 30 per cent. of unimal manures may be saved by the use of salt, which will prevent the ammonia escaping into the atmosphere, and two substances highly necessary to vegetation will be formed. The merits of salt as an agent in agricultural operations scorn to have been nearly entirely overlooked by our experimental farmers; but I am satisfied, from extensive experience of my own, that when it is properly applied it will be found a most valuable addition to the various natural and artificial manures now offered to the public. I am, &c., A FARMER.

EXTRACT FROM A FARMER'S DIARY.

" During the process of fermentation which takes place when large quantities of stable and farm-yard manure are thrown together, a considerable portion of the most valuable part is lost in the shape of carbonate of aramonia, which flies off. To prevent this great waste common salt may be used. It is a principle in chemistry that submay be used. It is a principle in chemistry that sub-stances combine more freely at the moment of their genera-tion or disengagement than at any other time. The chlo-or even scorching over lighted chips, followed by ride of sodium or common salt immediately unites with control of sodium or common salt is formed and a double control of the chapter of principles and a double control of the chapter of principles and a double control of the chapter of principles and a double control of the chapter of principles and a double control of the chapter of principles and a double control of the chapter of t the carbonate of ammonia as it is formed, and a double decomposition takes place, producing muriate of ammonia and carbonate of soda.

" A recent discovery in chemistry has elicited this fact, and goes far to prove the utility of salt as applicable to considerable, as the vessels must be finished off with pemanure. That the ancients were acquainted with the culiar care, and require to get three coats of the composeveral properties of salt and its uses, in sufficiently shown by the following passage from Scripture:—Salt is good; for some days after they are brought into use, has a perbut if the salt have lost its savour, wherewith shall it be ceptible taste of paint. The tinned copper milk pans are seasoned? It is neither good for the land nor yet for the very costly, and must be carefully watched lest theoshould

dunghill : men cast it out.

"To render this quotation perfectly intelligible, it is necessary to observe that in parts of Syria a species of rocksalt exists, which, if exposed for any length of time to the with enamel, though assuredly durable and very clean, atmosphere, loses its saline properties, but retains its out seem too expensive; and the glass have many opponents ward appearance. 'It has lost its savour;' 'men cast it on account of their brittleness, and the vague notions out; 'it is neither good for the land nor yet for the respecting glass and electricity inducing the idea that if dunghill.' Here are two distinct uses, besides domestic the electric fluid get into the milk it cannot get out again! purposes, to which salt was applied, and in both cases it whereas, as it is ascertained that it always attaches itself was good. Upon the land it produces various effects accord- to a conductor, and, in the absence of anything more ating to the quantity used, and most agriculturists are active, runs along the surface, it is more likely that the quainted with its nature; but the great source of its utimilk should be protected in glass, which is a non-conductive is upon the daughill. There, in nature's laboratory, tor, than in any other substance. In my dairy, which a chemical change takes place, and carbonate of soda and contains upwards of 180 cows, the glass vessels have been

marks that farm-yard dung, in its decomposition, loses sixteen inches broad at the top, and twelve at the bottom; from half to two-thirds its weight; besides a saving of this the glass is dark bottle-green, transparent, and perfectly immense loss, all noxious weeds and seeds are destroyed smooth, about one-eighth of an inch thick, and provided by the salt, as also the larvæ of insects, and the insects with a rounded rim at the upper edge, which makes it themselves, which consume great portions of the dung, easy to retain a safe hold of them, even full. They con-To all farmers who are desirous of increasing the value of tain eight quarts, but never receive more than six. They their farm-yard manure, I would strongly recommend the cost 8d. a piece, and their durability may be estimated by use of salt on the dunghill. It may be used in a liquid state, the fact, that to encourage carefulness, each dairy maid is sprinkled amongst the manure at the time of throwing it allowed one dollar per annum extra, as pan-money, being

vering to the whole."

GLASS MILK-PANS.

bock, Bart,, and at the request of Mr. Handley, a speci- (diminishing the number of our dairymaids by at least men of the glass milk-pans employed so successfully in his two), that the less quantity of butter obtained, supposing men of the glass milk-pans employed so succession, in the German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy, and referred to in his paper on the Rural (which I by no means concede) that the milk, dairing a German dairy and conserved the second of the second first volume of the Society's Journal (page 380). "The quent throws up less cream in glass than in wood, is more milk," says Captain Carr, "when brought to the dairy, than compensated by the lessened expense of the establishis immediately strained through a horse-heir sieve into ment, not to mention the great advantage of attaining the

the vessels, whether of wood, earthenware, copper tinned, zinc, cast-iron (lined with a china-like composition), or glass, placed in rows on the floor. All these different kinds of utensils have been tried with various success, in the hope of discovering how, in hot weather, more especially when a thunder storm is gathering, the milk can be guarded against a too early acidity; for, as it is a fixed and invariable rule that the cream must be removed from the milk before the latter gets at all sour, and an equally established fact, that all the only particles cannot be obtained in a shorter period than 36 hours, vessels in which, during sultry, and especially damp weather, the milk could be kept the due time, are a great desideratum. As yet, however, there reigns much diversity of opinion on the subject, and shallow wooden vessels, as nearly as possible equally wide at top and bottom, containing, when full, about eight quarts, but in which, during summer, seldom more than six quarts are poured, are in most ge-They have, however, some disadvantages, of neral use. which the chief is the great difficulty and the consequent labour and close attention requisite to remove all acidity (which in ome states of the atmosphere, is almost unavoidable), and which, penetrating the pores of the wood, sometimes resists all the patient scrubbing; first, with hot water and small birch scrabblers, and secondly, with boiling water and a hard round brush made of pigs' bristles (with which every hair's breadth is carefully polished some measure, this labour, the plan of painting the milk pails and dishes with a preparation of emnabar, linseed-oil, and litharge has been adopted by the milk venders in some country dairies: not only, however, is the expense sition at first, and one yearly afterwards, but the milk, require re-tinning. The zinc are, as yet, little known, and the assertion of their effect in better severing the cream from the milk not sufficiently proved. The cast-iron lined muriate of ammonia are formed.

"Sir H. Davy, in his 'Agriculturel Chemistry,' re-el preference over all others. Their form is good, being into a heap, or spread afterwards in a dry state as a co- bound at the same time to pay 10d. for each one she breaks : yet hitherto, no girl has broken to the extent of her dollar. It is self-evident that acidity cannot be communicated to glass, and the ease and rapidity with which they are cleaned, requiring merely to be first washed with Captain Stanley Carr, of Tuschenbeck, near Lubeck, lukewarm water, then rinsed in cold water and placed in transmitted to the Society, through Sir John W. Lub- a rack to dry, effect such a saving in fuel and labour