fore it could reach the furnace. A similar cir culation, though less active, must take place whenever there is a difference in the temperature of the air in the drains and that of the atmosphere, and from observations that have been made it has been found that a difference of this kind takes place at least once in 24 hours. M. Jæger remarks that where er a furnace exists, its fire may be usefully employed in fertilizing by means of air tubes, the adjoining ground; and that gardeners might thus make good use of their hothouse furnaces for improving borders

and other parts of their gardens. The advantageous action of atmospheric air in passing through the soil is due to the fact of its losing a portion of its oxygen, and thus giving rise to the formation of a larger portion of car-To determine the changes effected in these respects, Messrs. Fichtner have analysedthe air contained in the tubes comparatively with that of the atmosphere. They found, after soveral days' uninterrupted heating by the furnace, during which time the circulation through the soil had been rapid, the air in the tubes had exactly the same composition as that of the atmosphere (21 per cent. of oxygen, and 79 of nitrogen), and contained in 10,000 parts 1280 of carbonic acid. Two days after the fire was not kept up the air in the tubes had only 20.85 per cent. of oxygen, and contained 20.99 of car bonic acid in 1000 parts, and from four to six days after the fire was let out, they found 20.71 of oxygen and 35 72 of carbonic acid; six or eight days after, 20 08 per cent. of oxygen, and 35.73 per 1000 of carbonic acid. Duiring these experiments they only found 4 parts of carbonic acid in 1000 of the air in the atmosphere.

The produce of the aerated soil, even taking into account the affect due to the working of the soil in layin; the pipes, was considerably increased during the first and only year in which the results are known. A particular increase was observed in the yield of sugar beet. On the estate of Totis in Hungary, where similar experiments have been made, very encouraging results have been obtained. It is, however, impossible as yet to state anything precisely respecting them, and before we can draw conclusions we must wait till the experiments which are being made shall have been carried on for a sufficient length of time.—Gardeners' Chronicle.

Warranty of Soundness in Horses-

The subject of warranty of soundness in horses is one which cannot fail to possess a peculiar interest to those of our readers who, either as agriculturists or sportsmen, are amongst the lovers of horse flesb. The manner in which horse dectors differ on the important matter of soundness is illustrated at nearly every trial in which the question is involved, and is perhaps

as high an example as can be adduced of the usatisfactory nature of professional evidence—rolless striking even than that of the mad decompless striking even than that of the mad decompless in the celebrated Windham long-case. Mr. Litt, veterinary surgeon, has addressed to the editor of the Edinburgh Veterinary Review a long letter on the subject, in which is advecates with considerable boldn as and spirit, as the only satisfactory solution of the difficult, the entire abolition of the law of warranty. We give a few extracts:—

"A rather large experience of more than twenty years, during which I have had some not unfavourable opportunities for observation, has led to the conclusion that, so long as the present most absurd law and custom of warranty exist so long will the evils that arise from them-the expensive law-suits, the contradictory profes sional swearing, and the injury and degrat which necessarily follow-continue to exist also The great aim, then, it appears to me, of everbody who takes an interest in horse-fl-sh-law ers excepted, of course-ought to be to sakt bring about the abolition of the law of warrant altogether. Everything that leads in this direction may be recognised as wise and serviceable; and I believe the effect of a thorough inquin into the various bearings of the subject on scarcely fail to point to this conclusion. Not that I conceive any attempt to omend the laws the operation of the law as it stands much ke than Quixotic, but simply because I could that the more it is investigated, the more dead will its injustice and its absurdity be made mon apparent. Show how injurious is the law is self, and how unwise the custom of warrant, and something may probably be done toward their abolition; for it is in this alone, according to my view of the case, that we can reasonable look for any very manifest advantage to an I feel assured that no man baving given a wa He has made hims. ranty is safe from injury. amenable to a law, of all laws the most about and most unsatisfactory, and he has no right. be surprised if he should chance to resp the ... ural fruit of such a course. A very worthy m. whom I knew well some years since, a farmer and at one time a large breeder of horses, and stood these things so well, that when he sold high-priced horse with a warranty he always h the money in the bank, and allowed it to rea. six months without reckening it to his account If, at the expiration of that time, he heard complaint of the animal, he then considered h self at liberty to make use of the money, but By this means, and by making it rule to request the immediate return of a horse that had been warranted by him, of which the slightest complaint was made, he mana, to steer pretty clear of the law; and though was once exposed to some annoyance and position, I am enclined to think this plan was wise one, and I recommend all who can afferd