THE ADVANTAGES OF RAIL WAYS TO AGRICULTURE.

(From The Mark Lane Express). The rail-way in many important respects is preferable even to water carriage. The lands near the banks of navigable rivers are generally the most naturally fertile of all the soils a farmer has to cultivate; they usually abound with animal and vegetable matters, and contain such a mixture of the alluvial deposites, washed down from the upland in the course of ages by the flood waters, that it does not often occur that the addition of any earthy manure is deemed serviceable by the farmer; the chalks, ashes, or other mineral fertilizers, therefore, which he brings by water carriage, are usually afterwards carted, at a great expense, a considerable distance on to the uplands, to supply some essential fertilizing ingrediover upland districts, and unites together different strata of the earth, which no floodwaters or rivers could otherwise bring together, in a manner profitable to the farmer For the disposal of a farmer's produce, the quickness and regularity of the rail-way, in all states of the weather, renders it incomparably superior to water carriage; unlike a canal, a rail-way is nev rrendered impassable by ice, an interruption which occurs in weather above all others most favourable for getting manure upon the land. The importance of effecting an extensive and general interchange of soils, for the purpose of renalmost universally retarded, from the want of a sufficient means of reasonable conveyance; for otherwise, the farmers of England are so generally aware of the advantage of the use of mineral fertilizers, that they have invariably seized every possible opportunity of profitably employing them.-"The best natural soils (says the illustrious in improving soils artificially the farmer cannot do better than initate the processes of nature. The materials necessary for the purpose are seldom far distant: coarse sand is often found immediately on chalk, and beds of sand and gravel are common below clay; the labour of improving the texture or constitution of the soil is repaid by a great perminent advantage; less manure is refat bullocks they send to London, costs them in this way, not less than three guineas; and one of the tenants of the Holkham estate assured me that he has often upon fol-

mode of conveyance will now be speedily; rendered in a great degree unnecessary by the completion of the Eastern Counties Railway, an undertaking against which many profoundly absurd prejudices have been till recently entertained, but which will eventually not only be a highly lucrative undertaking, but be the greatest book conferred in our days upon the agriculture of the east of England.

DIFFERENCE IN THE EFFECTS OF MA. CHINERY UPON AGRICULTURE AND MANUFACTURES.

It has been often observed, that while mechanical contrivance appears susceptible of application to an indefinite extent to manufacturing industry, it is hardly available in the cultivation of the earth. By superior ent of which the soil is naturally deficient, skill in cultivation indeed, the produce which A rail-way, on the contrary is not confined the same exertion of human strength can to low grounds, passed as much as possible raise from the soil is greatly augmented, but over unland districts, and unites together the principal operations of husbandry still continues to be conducted by manual exer-tion. With the exception of the arrastingmachine, which is not, strictly socaking, applied to the raising of food, but outs manufacture when raised, mechanical contrivance has done little to abridge the labour of man in agriculture. The fundamental operations of clearing, draining, manuring, ploughing, cleaning and reaping, are still performed by the human hand, and to all appearance, must always continue to be done so. The extent of the field on which agricultural labour must be performed prevents the application dering them more fertile, has hitherto been of the mechanical contrivance which is so powerful in manufactures, its uneven surface precludes the operation of the powers which are employed in navigation, or manufacturing machinery. The implements of husbandry may, indeed, be improved, and the skill which directs them increased, but the power which wields them will never be different; and while the improvement of Davy) are these of which the materials have science and the extension of art is daily enbeen derived from different strata, which croaching on the field of industry in the have been minutely divided by air and wa- often-debasing employments of manufacter, and are intimately blended together, and tures, the wide and healthful field of agricultural occupation remains for ever open to the industry of mankind.

The improvement of husbandry, indeed, has a directly opposite tendency from the growth of manufactures, and in the latter ages of society the number of persons emplayed in the cultivation of the earth is greater than in its earlier periods. Where agriculture has attained to a high degree of perquired, and its fertility insured, and capital fection, as in Flauders, Lombardy, and Tuslaid out in this way secures forever the process, and consequently the value of mand for its varied produce, leads to the rothe land." Much of the meat which supthe land." Much of the meat which supplies the London market is produced in Essex, Norfolk, Suffolk, and Lincolnshire.—
The cattle are slowly driven up, being often a fortnight on the road, attended by respensible and well paid drovers. They are fed at considerable expense on their way to market with the best food, since a stall fed beast is naturally, when taken away from the Swedish turnips, mangel wortzel, and pil-cake, possessed of rather a fastidious apposition of farms, the improvemente, which travelling in his fed state, tation of crops, and the garden system of husbandry. The change augments namensepetite, which travelling in his fed state, ment of agreeful knowledge matupines does not tend to improve: he becomes over-the number of crops which can be raised heated, refuses his food, and rapidly de-from the soil, the necessity for economizing creases in weight. I have been told by hoth space and labour introduces the garden some of the farmers of Norfolk, that even cultivation. By no possible contribute can be a contributed as the contribute contributed as the contribute contributed as the contribu cultivation. By no possible contribunce can the same produce be raised from good land as by treating it as a kitchen garden with the spade and the hoe; and this is accord-ingly the method adopted in those countries them in Smithfield market, doubted their identity, so completely were they altered in their appearence. The miseries of such a powerful law of nature which binds man to

his first and best employment, and the ample provision made for extending this delightful branch of industry in the later stag. es of society.

"The banks of the lake of Zurich," says Coxe, " for the density of the population, and the well being of the peasantry, are not surpassed by any spot on the habitable globe. In many places there is hardly an acre and a quarter to each individual." The sloping hills of the Pays de Vand are cultivated in small garden enclosures, and the comfort and opulence of the people excite the admiration of every traveller. In the rich plains of Flanders, equally as in the sunny slopes of Bearu, in the beautiful vale of the Arnc, not less than the terraced hills of Tuscany, the smiling aspect of the country, which resembles a great garden, and the happiness of the people, are alike conspicuous. It was for no light reason, therefore, that nature established this eternal distinction between the labour of the country and that of the town, and made the increase of wealth and the progress of civilization attended with constant restraints on the encouragement of labour from manufacturing, and constant increase to the demand for industry or agricultural employments; and the philosopher who contrasts the condition of mankind in a manufacturing city and a rural district, will feel additional gratitude for that beneficent law which, while it renders the progress of knowledge and the growth of opulence the means of checking the increase of the far-mer, has opened a boundless field for the maintenance and employment of the human race in the progressive improvement of the latter — Alison.

## POETRY.

AN ODE TO SPRING.

(From an Luglish Paper). I welcome thy comings. Mild, beautiful Spring! Thy flowers are in blossom, The bird's on the wing. The sun, which stern winter Long bound in its night, Again re-illumines
The pathway of light.

The certh from its stupor Is roused by That will, Which clothed with newness Forest, valley, and hill, Creation rejoiceth Over woodland and dell, melody floweth, Lis the chorister's swell.

The lake's gentle wave Imperceptibly glides, To mingle its waters
Wi's ocean's dark tides. The flowers on its margin Bend light to the breeze, New vigour bedecketh The whypering trees.

Through aenal mansions The clouds lightly roam, Franging the bound'ry Of heav'ns spacious dome. The gentle rains fall To replenish the earth, Giving sustenance into Each gem of new birth.

I welcome thy coming, Mild, beautiful Spring! Hore pictureth joy Mong the gifts thou mayet bring; For if health be restored, How my spirits will bound, When contemplating nature, Mid her treasures profound.

W. H. Kimball.