(Continued.)

Quicklime can also act as a decomposer reas great stimess, is explained by this in the most simple manner: It is not the lime which produces this, but the ficient quantity. mineral substances rendered soluble and therefore assimilable by the lime above already been observed that lime, from its periments at the same time confirm the as a manure, while it makes the earth there shall not be a deficiency of its lets of plants, may be most beneficial .air, water, carbonic acid, (humus,) heat, &c., which carry on this process of de-

favorably in certain cases by supplying receiving; and it is certain that it is i ing is performed regularly and properly, will impregnate a large quantity of water, there can still be a want of such kind, and communicate to it all its virtues, and since stable manure, alone, conveys into these in as high a degree, too, as it is cathe soil more lime than is removed from pable of receiving.

The benefit to be derived from lime much lime in their development, espec lime moderately.

Carbonate of lime is far less coherent introduced for the lime to act upon in texture, and is of no looser nature than ders this more coherent and close.

made in England, lime is supposed to in- and his land is in better heart. crease the power of earths to absorb amin the operation into the mild condition tage. of corbonate of lime. Possibly, this of plants.

the period from germination to maturity quently used, it must be applied as the duration of vegetation would be a and to this end, it must be compounded tricts.

Chalk is another form of carbonate of lime that occurs very abundantly in many countries, and which, from its soft, earthy farmer. nature, has been extensively applied to the land in many parts of England with out busning. It is usually dug up from the pite, toward the close of autumn or oeginning of winter, when full of water, and laid upon the land in heaps. Dur-ing the winter's frost, the lumps of chalk of the chalk itself, and with the more or of some articles of food. ess perfect crumbling it undergoes during the season of winter, and with the "Why, Jimmy!" said mamma, "where purpose it is intended to serve. It gives are your manners?"

opens and imparts freeness to stiff clays and adds firmness to such as are of a sandy nature. If a physical improve ment of this kind be required, it is laid on at the rate of from 400 to 1,000 bush els to an acre. But some chalks contain much more clay than others, and are employed, therefore, in smaller proportions. For the improvement of coarse, sour and solvent of mineral substances. It marshy pasture, it is applied at the rate causes, for instance, an unlocking of the of from 150 to 250 bushels to an acre, mineral constituents of the soil, the pro- and speedily bring up a sweet and deliducts of which (silien, potash, &c.) can cate herbage. It is also said to root out then be consumed as food by the plants sorrel from lands which are infested with growing upon it. The experience that this plant. These effects are precisely liming pre-eminent favors the formation such as usually follow from the applica of hauler, and gives the straw of the Ce- tion of marl, and, like mark the repetireals great stiffness, is explained by this tion of chalk exhausts the land, if ma-

all the silica. The results of these ex- nature, must act both as a stimulant and correctness of the opinion that the far exert itself in the nourishment of vegmer need not pay any attention to silica etables, in some measure, enriches it, and in manuring, since it exists almost every- adds to the vegetable food. In some where in sufficient quantity in the soil, lands, the dissolving of the vegetable but that he need only take care that food, and fitting it for entering the rootsolvents, and of the conditions which fa. In others, the communication of the pow vor its solution. Thus, lime is a power | er of attracting the vegetable fool from ful means of assisting the oxygenation, the air may have an equally good effect. or weathering, of stony and earthy con. It will not be improper, therefore, to stituents of the soil; it, therefore, forms point out how lime is to be applied, so an aid to those bodies, and forces such an that it may chiefly answer one or the

composition everywhere in acting inde- 1s a large quantity of vegetable remains, pendently of human interference. In a lime ought to be used chiefly as a stimuheavy soil, this natural weathering can, lus; and when improved land needs a of course, only proceed slowly, because recruit of vegetable food, it ought chiefthe tenacity obstructs the access of air ly be used as a manure. When thus and the production of carbonic acid from intended as a stimulus, a large quantity When, therefore, experience should be applied at once, in an unslaksays that lime proves far more favorable ed or half slaked state, for it takes a in heavy than in light soils, it might cer- | considerable quantity to dissolve rootlets tainly be deduced from the preceeding and other vegetable substances in the soil statement, that its chemical action, now and to produce the necessary degree of under consideration, may claim an essen- fermentation. When intended as a matial share in the beneficial effects in the nure, a small quantity applied at a time is sufficient. It is probable that it re-Lime forms a necessary constituent of quires only a small quantity of lime to all plants: if not present in sufficient impregnate a large quantity of earth, and quantity in the soil, the growth of veg- communicate to it an absorbent quality etation is poor; therefore, lime may act in as high a degree as it is capable of this deficiency. By far the majority of proportion to the absorbent power which soils contains lime abundantly sufficient it communicates, that the soil is enriched for the requirements of the nutrition and by it, This is not mere conjecture. It development of plants; and, if manure is certain that a small quantity of lime

ted soils rather grow continually richer greatly depends, however, upon the nain lime, and plants, which consume very ture and the state of the soil. Strong lands are much improved, for two or three ially if grown in frequent succession in crops, by this stimulant; but frequent the same field, will naturally lead much repetition will not have the same good sooner to an exhaustion of the lime of effect, unless the land in the interim has the soil, than those plants which take up been placed under a clover or other green crop, by which vegetable matter will be

The deficiency of vegetable matter in clay or loam, so that it has the power of light soils is one reason why lime does improving tenacious soils mechanically not always act upon them beneficially; by rendering them less tough and solid; and it should therefore be used very and hence, more porous and open. Quick sparingly on these soils, with an interval lime changes into carbonate of lime by of six or seven years between each limdegrees in the soil, and will then couse- ing. Indeed, it is often as necessary to quently act in the same way. When change the mode of manuring land, as it mixed with sand, on the contrary, it ren- is to change the crops to be cuitivated; and it is from not sufficiently attending Lime also imparts mixtures of earths, to this, that arable farms have become as is shown by saltpetre beds, the power deteriorated, whilst the farmer fancied of converting nitrogen, of putrefying and that he was doing great justice to the decaying vegetable and animal substan- land by liming every third or fourth year dles. ces into nitric acid which enters into com- But let the introduction of a green crop bination with the lime to form nitrate of be tried in such a case, and he will af lime. According to some experiments terward find that his grain crops increase

Some persons think, from witnessi monia from the atmosphere, and to con- its first effects, that they can always have tribute indirectly, by the decomposition recourse to lime with the same success of ammoniacal salts in the soil, to a fix but in this, they will assuredly be disapation of ammonia by the clay and silica. pointed, once in five, six, or seven years, Quicklime absorbs carbonic acid gas from according to the nature of the land, is as

It may be proper to observe, likewis also may afford assistance to the growth that, when lime is applied in small quantities, as a manure, it is necessary to re-Lastly, it has been observed that the peat the application frequently; it is development of plants proceeds somewhat probable that the soil loses its absorben more rapidly in soils manured with lime, property communicated by the lime; for so that they run more quickly through experience proves that, if lime is freon unlimed land. Such an action upon manure, and not simply as a stimulant; recommendation of lime for agriculture with earth, clay, and other matter, to in northern, elevated and exposed dis- which it communicates its stimulating qualities, whilst its fertilizing effects are thereby augmented. In this state, it will act powerfully as a manure, and be

-One day, when little Richie was in bad humor, his antie called to him to know if he wanted five cents. "No," said he, "me dot mucher money

fall to pieces, and are readily spread over the fields in spring. The quantity laid years old. One morning at table, his on varies with the quality of the soil, and mother asked him if he wished any more

"No," was the concise reply

sacity and elegeness to gravelly soils, "I gat 'em all up," replied he.

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acriship, Cautions, and all transient advertisements of
the control of t POSITIVELY BE PAID IN ADVANCE.

C. E. ANDERSON, Editor and Proprietor.

Dec. 5 1866

Miscellaneous Advertisements.

CAME to the residence of the subscriber in Frink-lin township, for New Castle road, five miles west of Butter, sometime this fall, a red stere, small star in its forehead, beily and legs white, both ears cropped, and a small point book in off the horns, unposed to be inversely ears old. The owner is notified to come forward prove property, pay charges and take blue away. Dee, 19, 60.

Orphan's Court Sale.

Orphan's Court Sale.

OF REAL ESTATE.

D'A virtue of an order and decree of the Orphan
Court of Buller county, the undesigned, Admi
factor of the Court of the University of the Court of Buller county. The University of the Court of Buller county of the Court of Buller Court of Court of Buller Court of Court

more or less.

TERMSOFSALE:—One-third of the purchase m in hand, and the balance in two equal annual in ments, with interest from confirmation of sale.

JACOB ROHRER,
Dec. 19 66—ts.

Administr

Orphan's Court Sale of Real Estate.

The county, the uncertainty by the public and the public action with Risplant, will expose to sale, by public action with Risplant, will expose to sale, by public actions and the premises on Friday the \$3 of Janua-1867, the following real extent, situet in Clearfield waship, Butler county, bounded and described as following on the public and the part of the public and the public action action and the public action and the public action and the public action PETER FENNEL

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Dec. 12, 1863.5m) CHRISTIAN SEIRERT.

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