Prepared Manures and their effects on Grops

turist :-

Mr. Pell rose and said . By analysis it is known that all cereal grains cruciferous and other year. Since then I make them bear every leguminous plants, trees, and shrubs, require in year: and this year, a bad one for fruit, found my the soil the same chemical substances, but in difmanated trees full, and those not manured bar-ferent quantities. There are eleven, viz: potash, ren. The drought of this year was fatal to soda, lime, magnesia, alumina, oxide of iron, fruit, yet my manured trees had abundant moisaxide of manganese, silica sulphuric sold, phos- ture and were truttuit. I prefer the manure of photic acid, and chlorine. If one be absent, the decayed vegetable matter to the excrement of Built acid, and chorms. It one be absent, the decided vegetable matter to the exclament of soil will not grow any cultivated plant. Hence, cattle, as the material that makes and supports analysis of soi's is necessary for a proper and ecc-the animal has been extracted, and the excre-nomical application of manure. In a barren soil ment is not so rich on that account. If the ve-ome necessary ingredient alone might be absent if, then, teningredients be added and the eleventh by charcoal dust, all the chemical substances are kept back, the soil is suil barren. Hence, the present. Thus routed vegetable matter is more reason why so much of New York will not grow beneficial than the dung of cattle, quantity and wheat, and yet will grow other grain the re-quantity alike. quisite quantity of some one or more chemical A most value ingredients necessary for wheat absent, but in ing after the boiling of bones. It is very offencents worth of two ingredients. Like produces large amounts of the liquid are thrown into the like; and hence it straw of wheat be given to rivers I prevailed upon a grinder of bones to the ground it will produce wheat; indeed, whi at save his liquid by charcoal, and he now sells may be grown on a pane of glass, if the seed be what formerly he had carned away. I have covered with wheat straw in a decomposed state used it with great advantage, both on arable and Hence the farmer may sell the grain but not the meadow land. straw. The farmer who sells straw becomes poor ; he who buys it grows rich.

the liquid excrement, and rots. What is long or introgen, ammonia, &c., and holds them while partly unrotted I apply to hoed crops; what is, the weather is dry. During rain it absorbs 80 fine I mix with the eleven requisites and apply as per cent. of water, and releases the gases to a top-dressing. It may be advisable to apply the descend to the earth to fertilize it. When the straw to the ground and plough it in when un- weather becomes dry it parts with the water, and rotted. To grow grains, give the soil straw of absorbs from the air the gases again. This it its kind; for potatoes, their vines; grapes, their continues almost perpetually, and it is nearly invines; to apples, their branches; and so of all. destructible. When applied to the earth, the The droppings of cattle are the best manure to trees, plants, and grasses are found to have it grow grasses, as they feed on grass; those of adhering to their roots ready to impart gases and horses fed on grain for the growth of cereals. moisture as wanted. Trees packed in it have Quions are grown year after year, by only re- remained green for eighty days, while others turning the tops to the ground. In Virginia, had without it have died in like circumstances.the refuse of the tobacco plant been returned to Hams and salt meats are preserved perfectly the soil, she would not now be barren. The bad when packed in it. I preserved apples in perfarmer is injured by the vicinity of well manured fect condition for one year in it. If spread over land, as manure has an affinity for oxygen, hy- compost heaps, barn-yards, stable floore, in pridrogen, ammonia, &c., floating in the air, and vies, it absorbs the ammonia, prevents offensive attracts them to the provident farmer's land.

Formerly, I applied composts of various things, valuable compost. and had wonderful results; I dared not omit any Ashes applied to sandy soils are valuable; and one, as I knew not which had produced the re- on some soils leached are as good as unleached. necessary Bv these composes, I knew a squash of corn made to produce forty-five bushels by

cabbage to weigh 44 ibs. By it I grew wheat to The substance of the following remarks was weigh 64 lbs., tye 60 lbs., oats 444 lbs When Lifely delivered at the meeting of the American Sprenge, made know his analysis, showing that Agricultural Association in New York, by R L eleven substances are necessary to all good soils, Pel. We copy from the American Agricul. I found that my composi by chance had them all. and twenty other enriching ingredients.

Previous to 1840, my orchard bore only every

A most valuable manure is the liquid remain-Sufficients necessary for wheat absent, but in jug after the boiling of bones. It is very offen-sufficient quantity for rye, &c. When, at last, sive unless disinfacted. When hot it is not colltivated planes cense to grow, the five-finger offensive, but becomes so when cold. It is a vine appears, our requires still tess of them In jelly when cold. By the application of charcoal such a stage costs not rare that an expense of three dust to the hot liquid, the jelly when cold is not dollars per acce, will enable the soil to produce offensive In this state it may be made into 30 bushels of wheat. I produced 784 bushels of compast with other substances. In that condi-wheat on a proce of worn out ground, by fifty tion it is a most valuable manure. At present could be produced bushels of the produce of the iteration of the iteration of the produce to the iteration of the produce the substances.

Charcoal is one of the most valuable manures. It is the most powerful absorbent known. It I apply straw to the cattle-yard; it absorbs takes from the atmosphere oxygen, hydrogen, smells, fixes the volatile gases, and thus makes a

sults. Now, science by analysis shows what is I have known land too poor to grow eight bushels to weigh 201 lbs, the heaviest on record, and a ahes alone; and they are more valuable on a