AGRICULTURAL.

and very disagreeable to that class of writers who are constantly croaking about the permanent exhaustion of land. Every soil has its own natural strength; there is a wide range of this; some are very fertile and keep producing the most exhaustive crops right along for ages, while others are naturally weak. There are lands in the Connecticut valley to which some have denied the name of "real estate"—blowing sands, so poor that they hardly grow the most hardy weeds; these lands have been cropped to rye for centuries, being sawed once in two or three years, and invariably give a yield of eight or ten bushels without manure. This is their natural strength. manure. This is their natural strength, and they will go on yielding the same crop, at the same intervals, as long as the world increase the plant to consume 700 tons of stands. So in Hungary and Southern Rus | increase the plant to consume 700 tons of beets per day. sin, where the land has been sown to wheat once in two years, time out of mind, with a regular yield, varying smewhat with the enson, but always a paying crop. Soils in

meal, buttermilk and skim milk, the pags
having been cross-bred Jersey reds and
Foland Chinas. The pigs were divided into
two lots of three each. The first but (A)
were fed a ration composed of 6 parts dried
blood, 6 parts of shorts and 14 parts of
sweet skim milk, by weight, while the secand lot (B) were fed all the corn meal they
could consume. They had small back varies
two manure heaps are alike. The volatile
could consume. They had small back varies sweet skim milk, by weight, while the second lot (B) were fed all the corn meal they could consume. They had small back yards for exercise, and were fed for 136 days. 2502 hounds of skim milk, 1415 pounds of shorts and 256 pounds of skim milk, 1415 pounds of shorts and 256 pounds of skim milk, 1415 pounds of shorts and 256 pounds of dried blood, while lot B consumed 1640 pounds of corn meal. (I) the actual digestible matter of the food that of lot A contained 428 pounds of muscle-making food (carbo-hydrates), and that of lot B contained 155 pounds of fat producing food (carbo-hydrates), and that of lot B contained 155 pounds of fat producing food (carbo-hydrates), and that of lot B contained 155 pounds of fat forming food. The weight of lot A 5604 pounds; dressed weight, 5413 pounds of external fat, 150 pounds, and lean meat, 1785 pounds, The hogs fed for lean meats were 19 percent heavier, the tenderloim muscles 55 her cent heavier be easily obtained on some farms at a low cost, and corn being a staple product, will be given the preference. The experiments, however, are some of the most valuable ever conducted, and will at some future

The many differences of opinion that were eminent men are presumed to hold in regard to the character of the so-called an-mal rings of trees, would be readily recregard to the character of the so-called annual rings of trees, would be readily reconciled, says the scientific contributor to the New York Independent, if a little thought were given to the manner in which wood is formed as the trank is enlarged. This is accomplished by the birth of new cells which proceed laterally from the old ones. The new course of cells take their place around the mother cells, and form a thin layer over them just as if a sheet of writing paper might be wrapped around another. Those in a few days again become mother cells, and another course is produced. This continues during the short time devoted to growth, perhaps a dozen times, and the mass of new wood, known as the new annual layer, is really made up of a dozen line layers, so small that the concentrate lines are only visible by means of a powerful microscope. Now the size of these cells depends on the amount of material at command. The original mother cell that starts the annual growth has had the advantage of the opportunities for stored nutrition, every successive addition is weaker and weaker, until the last growths of r and weaker, until the last growths of se season are very small. It is because toy are so small and packed close together that we can readily see where they end, and thus datect the extent of the annual layer even in old trees. Now a tree may be in a position to have command of a su-perior stock of nutrition, and the cells are in a condition to avail themselves of the advantages, especially if the cells are not arally of a large size, as they are in some trees. In the European silver linden, for instance, the cells are one-fourth larger than they are in the common American lin-der, and the common American linion; and in this and similar trees a num-ber of light rings can usually be traced in the annual increment. The same can often the annual increment. The same can often be seen in vigorous specimens of the cottonwood. But plainly as these may be seen, the experienced investigator can rarely be mistaken on the last line made during the growing season, and is able to tell how amny years the tree has been growing on the spot where it stands. There is nothing more certain than that in the hand of an expert the age of a tree can be determined by its annual growths.

Twhereas Verillity of the Sail.

John J Willis superintendent of Laws and Gilbert's experimental farm, Rotham sted, England, in summarizing the results of the renowned experiments of Laws and Gilbert without in the American Agriculturies for November:

"No soil is so right that it cannot be made poor, if not almost barron: for with every corp removed there is necessarily a certain quantity of inorganic uniter, as well as in trogen, taken from the fault. And if this goes on year after year, without restoring to the soil something of what has been taken on the fault of the goes on year after year, without restoring to the soil something of what has been taken on the fault of the goes on year after year, without restoring to the soil something of what has been taken on the fault of the goes on year after year, without restoring to the soil and almost a summarian and the process from the time the bests were planted giving perfect of land growing a cept of lithry bondened when tremoves about one hundred and this younds of mineral plant foot and ferry pounds of mineral plant foot and ferry pounds of mineral plant foot and ferry produced by feeding to be exhausted to restore the feeding to the war face soil would be slightly improved, but the soil is a whole would not be sufficiently entiribled to produce a correspondingly large corp as that cates off, the certifity of the soil is to be maintained. There is, how were, a certain amount of inherent territies in rearly every soil, which it is extremely difficult to exhaust of inherent fertility in the results of the produce of the soil for the produce of the soil is to be maintained. There is, how were, a certain amount of inherent fertility of the soil is to be maintained. There is, how were, a certain amount of inherent fertility of the soil is to be maintained. There is, how were a certain amount of inherent

what is called the 'natural strength' of a soil, and its conditions." By natural strength he means the feeding power of a soil dependent upon its composition: this is inseparable from it, it cannot be removed, is always the same, and must always continue: a fact very consoling to farmers, and way disagreeable to that class of writers who are contantly creating plant it is main. If the season is dry and beets are small, the percentage of succharine matter is larger. So the farmer, if also interested in the manufacturing plant is sure to win, and make money either way. I shall remain in this city a few days and then go to San Francisco, and shall at once begin to

Preserving Manure. There is annually a large waste of the valuable properties of manure, and the river carry to the sea much of the wealth manner cropped with barbey for two or three thousand years. This illustrates what is meant by the natural strength of soils.

Preding for Lean Meat.

Custom has long prompted the farmer to feed his bogs on carbe hydrates (flat former ing foods), corn being the principal substance used, it being supposed that heavy weights could not be obtained without excessive flat, but new light has been thrown on the system in the recent experiments by Prof. Henry of the Wiscousin experiment station, which is very valuable to every farmer in the country. He found that by feeding to obtain the largest proportion of lean mear not only the health of the animals was promoted but greater weight was obtained. He selected six pars, and began with them when they were 100 days old. Up to the beginning of the trial the pigs had all been fed alike, from the same trough, with a mixture composed of shorts, carn meal, buttermik and skim mik, the pigs had all been fed alike, from the same trough, with a mixture composed of shorts, carn meal, buttermik and skim mik, the pigs hading been cross-bred forsey reds and Foland Chinas. The pigs were divided into the decomposition of the manure are benefited and former a chemist, even though his knowledge of chemistry may be limited. Of the farmer as chemist, even though his knowledge of chemistry may be finited. Of the farmer as chemist, even though his knowledge of chemistry may be finited. Of the manure and be benefited and made more valuable all farmers are familiar, for by using absorbents they know that the second and the decomposition of the nanure and but the There is annually a large waste of the valuable properties of manure, and the

he fails to give an the most important item the food, which is the most important item. The question with farmers is whether a lean-meated hog can be produced with as little cost as one containing mors fat and of the same weight. Dried blood cannot be same weight. Dried blood cannot be specified by the same weight of the same weight of the same weight of the same weight of good quality, in the comb, is now quoteen the fails to give an exceptional year, and the demand for pure honey is said to exceed the supply. A ton of Vermont honey the same weight of the s

time work a revolution in the present sys tem of swine feeding. is worth a column of rhetoric, said an America statesman. It is a fact established by the tea mony of thousands of people, that Hood's Sars-parifia does care scrafula, sait rheam and ath diseases arising from an impure state or low on although the blood. It also overcomes that the feeling, readers a conditional matter.

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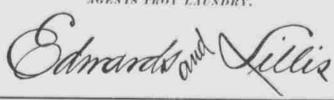
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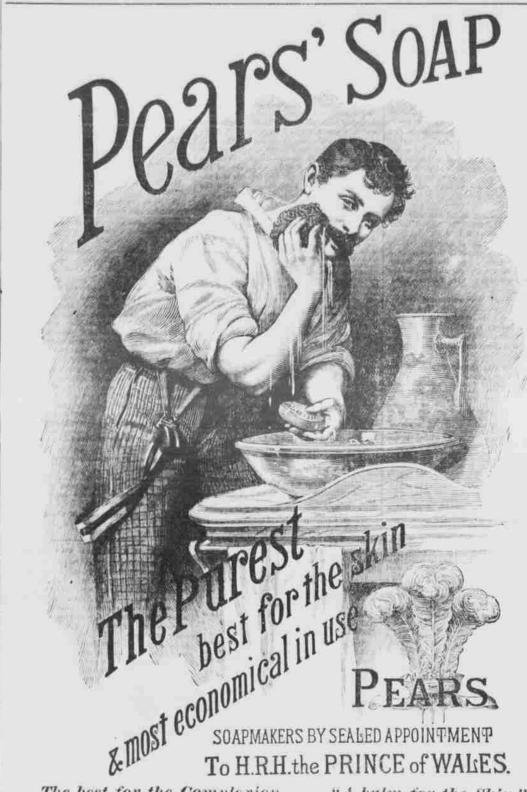
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