normal quantity, yearly cultivated, but it is only in a fair the remainder pigs &c. The total of the blood of these ani-

population.

is 165 lbs; it can descend to 154 and mount to 180 lbs. The ton. In South America, where in some places upwards of latter wil produce about 156 lbs of first quality of flour. 1000 animals are claughtered daily, there is a grand future Flour absorbs 66 per cent of its weight of water; it parts for applying the new discovery, and which consists in keepwith one-half of this quantity by evaporation when baked, ing the blood, when quitting the animal, constantly stirred so that bread contains about 33 per cent of water, almost the with a stick to prevent the formation of clot, after which equivalent to the loss, in bran &c., which the wheat urdergoes, during conversion into flour. I may remark here, that an agitation is on foot to replace the manufacture of tely pulverized. The product is inodorous; and contains bread by machinery, instead of the hands. In the South of from 10 to 15 per cent of ezote. In the country districts, an France, the feet are employed in the kneading trough; now the bakers are almost naked when at work- similarly as the can manure 120 square yards, or the fortieth of an acre. men in the wine vats, and in a perspiration, as they work close to the ovens and in cellars. A healthy man, during the following plan for preserving diseased potatoes; he erects ordinary labor, parts with 2½ lbs. of perspiration per day, or immense boilers, in the fields even, cooks the tubers, and about 11 oz. per hour. Some of this is not pleasant to receive in one's hot morning [roll. It is rotorious fact, too,] that the majority of bakers are consumptive. Another amelioration needed, is the use of the economic oven, so general | becoming general now to store all root crops in silos, instead in Holland and Belgium: it is heated either by hot air or of in cellars: in the lutter case, if destined for the market, steam, and effects an economy of 75 per cent in fuel.

limited; the blood of the slaughter house is rich in nitrogen and mineral matters, but as it decomposes rapidly, it is a dangerous and inconvenient fertilizer. A discovery recently made, enables the coagulating matter to be transformed into a solid, inodorous fertilizer. Fresh blood contains 28.20 of organic matter, and 0 80 of saline substances; the rest being water: dried, it is reduced to one fourth of its original weight; in this state it contains 12 to 18 p. c. of nitrogen and 1½ to 2 p. c. of phosphoric acid. Now sulphate of ammonia contains 20 per cent of nitrogen. The total number of animals annually slaughtered in France for food, is 43 millions, of which number, 12 millions are oxen and bulls; 7 millions, cows; 1½ million calves; 26 millions sheep, and | ment in this new culture, as in Germany.

average year, that the yield suffices for the wants of the mals amounts to 70,000 tons, valued at 300 fr. the ton. The total value of guano imported into France during the last The average weight of 22 gallous of wheat, (a hectolitre), years, was 50,000 tons, at an average price of 350 fr. per persulphate of iron is added: a kind of paste is then formed, very elastic, and which dries and forms cakes, to be ultimaox yields about 4 gallons of blood, valued at 12 sous, which

Mr Bouilliez-a name à propos to his process - has adopted places them in trenches or silos, hermetically sealed: to wash, cook, and store the potatoes, represent an outlay of 9 f. per ton. The cattle eat this preserve voraciously. Indeed it is there is a loss for the seller, if for consumption, for the Congulated blood is an excellent manure, but its usage is owner, because potatoes &c, exposed even to the uniform temperature of a cellar, slowly ferment, and iose their nitrogenous matters. Professor Muntz has demonstrated, that all alimentary products undergo a sensible loss of their protein substances when exposed to the air, but that no loss whatever takes place if the air be perfectly excluded. Distillery &c. grains are at present in great demand for silo preservation, and mix well with forage or roots similarly pre-

> A very useful implement has appeared; it is a bill-hook, serving at the same time for a hammer.

> The cultivation of hops is on the increase, the consequence of deficient vintages: furm schools are henceforth to experi-

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