This merits the attention both of use of lime from time to time in soils the farmer and the government. Observe, what an important industry would give employment to bundleds of persons, while the public wealth would be increased 1 know of no in ductor that descent to bundleds dustry that demands less capital, less and this lime is derived from t expenditure in its conduct less special through which the water flows knowledge Our province is partic-larly suited to the development of it. ture would by its means make another

forward step in the march of progress. I shall beasked, perhaps, if our land is as susceptible of improvement by lime as the soils of England and Bolgium; I do not hesitate to answer in the affir mative that it is, and more so In fact, great part of our soils is derived from the primitive rocks, granite and schistoso, which are generally poor in limo. (1)

For the destruction of acidity in marshy places, limo is highly usoful, provided they are sufficiently drained in such soil it may be used in large quantities, (2) In ordinary soils 20 to 40 bushels of quick lime are enough for an acro if applied every 6 or 8 years. The stronger and the wetter the land, the larger should be the dose I do not give these figures as an abso-lute rule. I may be permitted to say lute rule; I may be permitted to say that in England and Belgium they are much more liberal.

Several ways of applying lime are practised. The simplest is to spread the lime in powder on the ploughed land by means of a broadcast machine and harrow it well into the land. Common machines will not spread fat The general rule in Flanders is lime. to drop the stone-lime in little heaps on the ploughed land, to cover them with mould until the lime is slaked, and then to spread and harrow it in. (Just as in England and Scotland. ED.) Sometimes, composts are made of it with ditch cleanings and vegetable refuse. All these methods are good

I met the other day, a Scotch farmor from Portneuf, who had used the sowing-machine to spread his lime for many years, and found it answer so well that many of his neighbours have imitated him

Heather, fern or brakes, marsh-plants and specially all acid plants, like wild sorrel, indicate a soil poor in lime And lime destroys them It will also get rid of slugs and other injurious hitle beasts.

Some fertilisers ontain a notable proportion of lime, so that their use is r Unleached wood whes, which, por international of potash, and 3.5 of phose boris contain, on an averages, 30 of lime, 10 of potash, and 3.5 of phose boris contain, on an averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose boris contain averages, and was supported by lime, 10 of potash, and 3.5 of phose lime, 10 of potash, 10 of phose lime, 10 of potash, 10 of phose lime, 10 of pho phorie acid;

Deached asnes 2007) of time, 1.5 of Wyandotte, it cannot be accepted any potash and 1.5 of phosphoric acid, Phosphates 20 to 50 070 of lime, mention the Dorking speak of it as and very variable quantities of phos phoric acid Lastly, plaster and mail. One great reason in favour of the known 40 years ago, as given in the

cetts, got hot over it, and two or three toli-iakers were kined. This was in 1840 or 47 ED.

that contain but little of it is its instant lixiviation by water. The analysis of well water, as well as that of brooks and streams, shows that the lime hold in solution, as bi-carbonate, oxceeds in quantity all the other salts together, and this lime is derived from the soil

Carbonato of lime among arable soil is insoluble in pure water, but is larly suited to the development of n, soil is insoluble in pure water, but is I imestone of good quality occurs not so if the water contains more or almost everywhere, and this dimin-ishes the cost of freight. If its use carbonic acid; in this case, the ishes the cost of freight. If its use carbonic of lime forms a fresh combin-were to become general, it could be ation with the carbonic acid; and is produced, as in Europe, on a large scale, the mode of burning it perfected, a very soluble salt which dissolves in and the cost greatly reduced. The use water and makes it hand. Every one of it would, then, greatly repay the knows that hard water encrusts kettles, expense of making it, and our agricul ture would by its means make another all vegotables that are cooked in it makes soa, lathor badly, and spoils all vogotables that are cooked in it and though it makes bad porter, makes the best pale ales. ED.)

An addition of quick lime softens water, and decomposes the bi-carbo-nate by restoring it to the original state of carbonate, when it forms a precipitate and settles.

Lime is liable to return to its primitive state of carbonate, as woobserve in mortar, which hardens by absorbing the carbonic acid of the air with which it combines.

Lime-water becomes turbid and milky when breathed into through a tubo; the carbonic acid exhaled from the lungs combines with the lime held in solution by the water, and converts it into carbonate of lime.

(From the French.) B. LAPPENS.

The Poultry-Yard,

## The Dorking Fowl.

WHAT IT HAS BEEN AND WHAT IT NOW IS

Before proceeding to speak of the different colors of the Dorking fowl, we must deal with the question of color, for this will have important reforence thereto. It has already been shown that those regarded as purest in strain were white. In the days of Colu-mella, white feathered fowls were known, for he states: "Let the white ones be avoided, for they are generally both tender and less vivacious, and also are not so prolific." The idea here

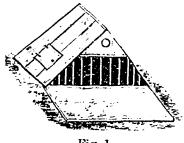


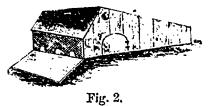
Fig. 1.

horic acid; Leached ashes 2000 of lime, 1.5 of Wyandotte, it cannot be accepted any

train, &c., up to the works at Merthyr Tydin, been quoted, and is identical with that pike-keepers demanded a second toll as the lished a year before. In the Poultev Cetts, got hot over it, and two or three torights. ing particulars : "The Dorking fowl is a short-legged, plump, round-bodied fowl, remarkable for having five toes— (1) All granitic soils demand line with a fowl, remarkable for having five toes— bud voice Hence, its use is universal in that is, a supernumerary hind too. We cornwall. Ed. (2) In Scotland, sometimes as many as 400 have indeed seen some with one or bushels are applied, at the beginning of a 19 two more supplemental toes, in a rudi-years'lease Ed. two more supplemental toes, in a rudi-mentary; condition, and which ap-

peared anything but ornamontal. The pure Dorking fowl is of good size, and of a white color, but such are now soldom scon. During a recent visit of some weeks to Dorking, though we visited the market regularly, and ex plored the country round, on one or two occasions only did we meet with pure white birds. In all however, more or loss white prevailed; but the cloudings and markings of the plumage were unlimited. Many were, as we observed, marked with bands or bars of ashy-grey running into each other at their paler margins. Some had the hackles of the neck white, with a tingo of yellow, and the body of a darker or brownish-red color, intermixed irregularly with white, yot in all wore the five claws present. Neither in form nor coloring is the Dorking breed attractive; it is too rounded on the body, and top low on the limbs to be graceful; but its flesh is in high repute, and vast numbers of these fowls are sent to the London market."

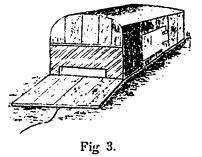
Evidently, breeding Dorkings was in



inability to get chickens true to the color of their parents, and stated that he had four spangled hens, but got scarcely any spangled chickens, and of these half wore double-combed, though the parents were single combed. This is emphasized by "Plastic," already reforred to, who says (1) that in 1853 he wanted to recover the old brown-spangled sort, and paid Capt. Hornby four guineas for a sitting of oggs from which he had "grey spangled and at least two with four claws.'

As throwing light from an impartial source as to the Dorking of forty years ago, I may be permitted to quote from a letter by M. A. B. Allen of New-

York, (2) who says: 'I first visited England in 1841, and in looking over the poultry there this bird (the Dorking) struck me as being the Shorthorn of barn door fowls—that is, the best for general purposes—and I resolved to take some of them back to America with me. J accordingly selected two cocks and accordingly selected two cocks and half a dozen pullets, and got them safely to my farm in the State of New York. They we so of briliant variegated plumage, chiefly brown spangled, and partridge colors of the darker shades, and the cocks black-breasted. They had the tooks black-breasted. had shortish white logs, five toes, and both single and double combs; the bodies were pheasant-shaped, long, the bodies

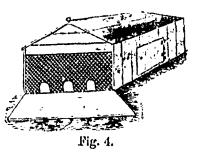


round, and full, with a deep breast like a Shorthorn ox; the head was were preferred. Mr John Bailey, as fine, well set on to a small, clean, quoted in Wingfield and Johnson's graceful neck; they were thickly Poultry Book, observes that, "though feathered, hardy and thrifty, excellent it may appear anomalous, it is not less

(1) The Field, 1881. (2) Live-Stock Journal, 1881.

layors, steady sitters and careful nurses. Woll fatted, the hons weighed six to seven pounds each, the cocks nine to ten pounds; when caponised, they came up to twelve pounds. They were the best table fowls 1 over ate. They the best table fowls 1 over ate. had white skins and flesh, with little offal. (1)

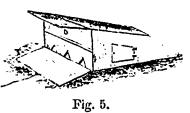
"So far as I have been able to as cortain, I was the first importer of the Dorking fowl into America. Subse-quently many other importations followed. Some of these were of larger



size than mine. but possessed the same Evidently, breeding Dorkings was in an unsatisfictory condition forty years ago. Capt. Hornby, a very successful breeder and exhibitor, lamented hus ingo from light or silver to dark grey, partridge colors to brown-spangled and almost black. Pure white Dork-ings were also imported; but instead of being small, like Bantams (as suggested by a correspondent), they were nearly as large as the colored, but not quito so hardy." From what we have now seen it

may be taken as a fact, that by the middle of the present concury the white Dorking, having been neglected by reason of its smaller size, was becoming scarce, and its place was being taken by others which bore more resemblance to the ordinary Sussex variety in which color was of no moment, and all colors to be met with. That there had been other crosses than this is undoubted. Malays, Spanish, and even Polish, with Cochins more recently, were all named as having been used for the purpose.

Let us see if we can trace back the



four breeds now known, namely, Whites, Colored, Silver-Greys and Cuckoos, to their original scurce,

## WHITE DORKINGS.

This variety of the Dorking need not delay us very long, from the fact that we accept it as confirmed that it is the "Simon Pure" of the Dorking family, and we have no need to des-cribe its descent. There are no means of telling when it was first known, but from Moubray and others we know that in his day it was so recognised.

The writer just named says that 'The white is probably not so pure as that of cortain of the Dunghill fowls, n or is the color of the flesh, that inclining to yellow, or ivory shade" Horo we may venture on a suggestion as to the reason why the white Dorking began to lose ground. In England and Europe generally, white fleshed fowls command the highest prices, and as breeding for table was then, as it is now, an important industry in Surrey and Sussex, it is more than likely that the other kinds which had whiter flesh wore preferred. Mr John Bailey, as quoted in Wingfield and Johnson's Poultry Book, observes that, "though

(1) A good description of the best table-fowl in existence. ED.