burnt clay and sheep folded) did not show any great increase in yield over the 2nd lot, it is probable that an analysis of its produce, would have shown it to be purposes. Science throws so much light upon the and bread corn of yast importance; and manures of rich urine (especially human urine) should be used in their culture to encourage its development-but, in the growth of barley for malting purposes, the object should be to limit development of gluten. In the than is sufficient for the purpose, and to get rid of it altogether when the proposed attenuation is reached. It is evident, therefore, that inferior barley (as far as regards the perfecting of a malt liquor) would be grown on land manured with urine or other oxidized matter. Cow-dung would seem to be the best of all manures, as it is said to contain the smallest quantity of nitrogen.

VENTILATION .- Good ventilation is nowhere more important, although nowhere more neglected than in our bedchambers. The bad effect of sleeping in small and close rooms has been often mentioned; to which we may likewise add, that of having thick curtains drawn close round the bed, which confine the air that has been exhaled, surrounding us with an impure atmosphere. Provision should be made for a continual change of air in the apartment during the night, by the escape of the heated and foul air and the introduction of cool and fresh air. The first may be effected by some apperture at the top of the room; perhaps keeping the top sash open for about an inch may be sufficient: of course care must be taken that the fresh air brought in at the top of the room; shall not act as a draught striking upon the bed, but that it enters by small apertures, and diffuses itself as quickly as possible; and likewise that there may be the means of regula-ting the quantity according to circumstances. If the tem-perature of the fresh air can be regulated it will be better. Wild sainfoin barren chalk pastures.

A little apparatus for ventilating a bed-chamber in the night, invented by the Marquis de Chabannes, though not very effectual for a large room, is perhaps worth mentioning for a small one. It consists of a little box, or enclosure of tin or other metal, having an opening in front, in which may be placed a small lamp. The upper part or flue is to be inserted in the wall on the chimney breast and is to go quite into the flue of the chimney. The air which the lamp requires for combustion will thus pass into the flue, occasioning fresh air into the room to supply its place. This machine is in fact, a little chimney, in which the lamp is the fire. It should be placed near the top of the room.

It is, highly deserving of attention, that although we never use fires without flues, yet we very absurdly have long continued to burn lamps of considerable size, which are in fact, so many fires, in the middle of our apartments, even when small, without the least attempt to carry off the burnt air which they are constantly generating. wonder then, that the air, in such places, is often felt to be oppressive: it is, indeed, extremely unwholesome.-Cyclopædia of Domestic Economy.

ITALIAN RYE-GRASS.—I am quite satisfied of its being the most valuable plant I know of, especially for early spring feed; it comes to perfection for feed for early spring feed; it comes to perfection for feed Of aspects, a northen aspect is rather an indication of quite as early as rye, and the comparison between the barrenness, so is N E. or N W.; pasture lands with these two for feeding qualities, is as 10 to 1 in favor of the aspects are the most subject to moss. S., SE., or SW., or Italian ryc-grass .- Jour. of Eng. Ag.

Natural indications of barrenness and fertility.-As the day is now rapidly approaching when the young farmer commonly enters upon his farm, it will be useful to remind an analysis of its produce, would have shown as the interest of the two ingluten, a substance of great degree of productiveness; since, after all the cautions value in wheat. This brings me to a subject I wish to twhich skill and practice can suggest, mistakes, especially, remark upon, viz; the culture of barley for malting by the stranger, are not always very readily escaped. It was thus that that the celebrated Arthur Young was, much cultivation of land that we may begin to hope the aim to his cost, deceived in hiring (although assisted by his of the farmers will be not only to obtain an increase in the bulk of cereal crops, but to increase or diminish the per centage of their proximate principles. The give this soil. Sterility falls short of the idea: a hungry the per centage of their proximate principles. The little state of highly nutritious property of gluten and its value in vitriolic gravel.—I occupied for nine years the soil of a wolf." Amidst many other natural indications, the colour of a strange soil should be carefully regarded: barren soils are generally of a lightish brown, foxy, fawn, palered, and whitish yellow colour—a deep yellow is a certain sign of barrenness. Mr. Bravenden thinks all soils should be called barren that do not produce on an average, 20 bu shels of wheat, or 30 of beans oats, or barley per acre. fermentation of malt liquors gluten is required in small The sontaneous growth, in considerable proportions, of quantity, it being the brewer's interest to have no more the following plants, is an intdication of a barren soil—

dry sandy soils.
dry barren pastures.
in woods.
high chalk pastures.
on heaths.
in wet places.
barren meadows.
barren meadows.
sandy soils.
sandy and gravel.
lands subject to floods.
sandy meadows.
barren elevations.
which tenant barren soils

are-

Common bent......dry heaths, limit of elevation above the sea White-rooted bent......2000 feet. Creeping bent......clay soils. Marsh bent.....damp and shady places. Tufted hair.....limit of elevation 1500 ft. Soft bromepoorexhausted pastures. Sheep's fescue......dry sandy soils.

Sycamore.....sandy lightish. Maple.....deep sandy. Alder.....wet. Birchlight, moist, and sandy.
Hazel nut......deep sandy; moderately fertile. Beechcalcareous. Ash.....deep, flourishes on the inferior colite.

Timber trees flourish best on soils, which are for-

Walnut.....dry loamy, rich. Larch.....thin, dry, and rocky. Poplar wet, boggy.
Pine light, dry and rocky.
Elm deep rich loam.

Of the plants whose chief occupancy of the ground indicate a fertile soil, are-

Stinking May-weed, Dandelion, Fat Hen, Pale Persecaria, Cow Parsley, Sow thistle, Virgin's Bower, Chick-weed, Goose Grass, Nettle.

The same presence of the following grasses also indicate a fertile soil-

The Mendow Foxtail, Mendow Fescue, Sweet-scented Vernal, Rye Grass, Meadow-oat Grass, Rough-stalked Meadow, Fiorin, Perennial Red Clover, Crested Dogstail, White Clover, Cocks-foot, Creeping Vetch.

W. are very favourable aspects. A fertile inclination