more then 130 distinct intive species and varieties of grass in Great Britain, all possessing distinct properties, and varying in their or impoverish the soil, a question which I shall examine more at length under the head worthless, to those on which his successful farming chiefly depends. The researches, to those of Belford, not carried on during a series of years in the grass girden at Woburn, have added very following are some of the general results of should we discover any thing to justify public that of grammer; it would be something that management of one of my carbest correspondents, the late Mr. George Sandair, the sults were given by him to the public in the Hortus Gramineus Woburnensis, a valuable and claborate work, to which I am elnefly indebted for the matter of this and and other articles upon the grasses. The manner in which these relebrated experiments of the

"Spots of ground, each containing four square feet, in the garden at Wobarn Abbey, were enclosed by boards in such a manner that there was no lateral communication bein these enclosures, and new soils supplied; or mature of soils were made in them, to grasses those soils which seem most favoura. [next proportion to inuclage. ble to their growth, a few varieties being effect of different soils on the same plant .ble the nutritive powers of the different species, equal weights of the dry grasses or vegetable subtances were acted upon by hot water! till all their soluble parts were dissolved; the solution was then evaporated to dryness by a gentle heat in a proper stove, and the matter obtained carefully weighed. This part of the p. 42.j—Furm. Encyclopadia. process was likewise conducted with much address and intelligence by Sinclair, by whom the various details and calculations were furnished. The dry extracts supposed to contain the nutritive matter of the grasses, were sent to me for chemical examination. The composition of some of them is stated immutely; but it will be found, from the general conclusions, that the mode of determining the nutritive power of the grasses, by the quantity of matter they contain soluble in water, is sufficiently accurate for all the purposes of agricultural investigation." (Agr. Cuem.

In regard to the description of soils-1st. By loam, is meant any of the earths combined with decayed animal or vegetable matter. 2d. Clayey loam, when the greatest proportion is clay. 3d. Sandy loam, when the greatest proportion is sand. 4th, Brown loam, when the greatest proportion consist. of decayed vegetable matter. 5th. Rich black loam, when sand, clay, animal, and vegetable matters are combined in unequal proportions, the clay, greatly divided, being in the least proportion, and the sand and vegetable matter in the greatest. The terms light sandy soil, light brown loam, &c., are varieties of the above, as expressed.

The systematical arrangement of grasses is n difficult and unsatisfactory task, and has occupied the attention of many botanists.most recent work upon the subject is Kunth's Agrostographia, published at Berlin in 1836.

In choosing the mixture of grass seeds most valuable for the farmer's soil, many considerations must be taken into calculation; not only the nature of the soil, and the supply of water to which its habits are best adapted. but also the objects which the farmer has in Thus, the meadow fortal (Alopecurus peatensis), although an early, natrative, productive grass, requires more than two years to arrive at perfection; it is, therefore, better adapted for permanent pasture than for the meadow cat's tail or tunothy (Pulcum) pratense, although remarkable for producing the most untritions culms of all the grasses and that, too, in a considerable bulk, yields profession of leaves, which are lighly nutritive: has culms or stalks of little value; it is

- culcut nature.

- that there was no lateral communication between the earth included by the boards, and
 culent: flowers in a spike or close panicle: and longest occupy the attention of the polilowed, has, we believe, been attended with
 that of the garden. The soil was removed
 florest blunt and large, contain most gluten
 them and the Legislator. As agriculture is evident benefit. We have seen a done ourand mucilage.
- furnish as far as possible to the different colour, and the florets woolly, sugar is in the
 - 6. Grasses which have their flowers in a
- tumn, by Smelar, his Grace's gardner. For long awns; culms lofty, with leaves that and affords more room for the profitable and suc- unce of those lands over which the harrow the purpose of determining, as far as possis rough, contain a greater proportion of saline reesful application of science, which in fact had been drawn, and the yellow, sickly apmatter and butter extractive.

TO CORRESPONDENTS.

J. J. B. Thorold. We are very much gratified if they would meet together, and discuss freely and familiarly Agricultural topics, communiportance transpired, sending a short account insect it in our paper, and by these means on inculculable amount of good would accrue to themselees, and to the country at large. We would be abliged to J. J. It if he would get a free persons of influence, in the places he mentions. prefer something on Agriculture: or. if J. J B.

your misfortune; and though you have mistaken our promise, which was to "farmers" who which its advantages has been proved. Your remarks are in some respects every good, but we have not room for them this week.

CANADA FARMER.

April 9, 1847.

the alternative husbandry. And then, again, AGRICULTURAL COLLEGE, AND principles of those sciences with which it is therefore, as it is for hay, it is of hitle con-therefore, as it is for hay, it is of hitle con-therefore, as it is for hay, it is of hitle con-turist, by L. F. Allen, Esq., Author of the be able to show that this is one of the most fuxurics, without the usual expense of sideration for feeding purposes if sown by itself; it must, therefore, be combined with other grasses. So the cock's foot orchard mer, and one of the best agricultural writers sued in the schools of this country, that might rich or poo. should never be without the grass (Dactylis glomerata), which soon ar- in the State of New York, or indeed in the just as well be dispensed with, if it should be rives at perfection, and yields early and late a United States. We have inserted this article because we think it contains several sugges. too much for the attention of the pupil. We requiring an equal amount of labour. The a grass, therefore, most profitable for feeding tions particularly worthy of consideration by may instance English Grammer. There garden work can, in most cases, be performed purposes. "Under these different relations, the intelligent farme. of Cauada, at the pre-therefore," says Mr. G. Sinclair, "a grass sent moment. There has lately been some should be considered, before it is absolutely talk about establishing an Agricultural Colrejected, or indiscriminately recommended." The knowledge of the relative nutritive lege and Model Farm, in the neighbourhood We have never seen an instance of any real matters contained in different grasses, will also of Toronto. The subject at present, however, benefit derived from such teaching. It more must remind them, at the same time that we not only be a highly important object of re- seems to be lost sight of by the Press, though frequently happens that children acquire so

materially to our stock of knowledge cencern- following are some of the general results of should we discover any thing to justify public that of grammer; it would be something that ing these plants; for, instituted with a published observations of Sinchir:

apprehension. The mestimable benefit such a child could be made to understand and in lie object, and under the careful and skilling and joints, leaves thick and succulent, and flowers adequately supported and properly conducted, nothing more than give him a taste for the of sugar and muchage than those of a less suc-2. When this structure is of a light glaus her progress, we need not at present stop to country from the general adoption of this cons colour, the sugar is generally in excess, shew. Upon the healthy and prosperous, means of awakening the attention of the rising 3. Grasses which have culins with small (condition of Agriculture in Canada, every generation to acuseful, so necessary a study, Duke of Bedford were conducted, is thus desponted, collected into a spike thing depends. To foster, encourage, init could not be forefold. or spike-like paniele; leaves thin, flat, rough prove and protect it, should be the first object and of a light green colour, contain a greater of solicitude with the true patriot, to what-4. Grasses which have culms furnished ever class he may belong, or whatever pursuit with numerous joints; leaves smooth and suc- he may follow, and should also first attract, the spring, wherever it has been properly fol-5. When this structure is of a glaucous meoniparably the most important occupation selves, and at the time we had great fears for adopted for the purpose of ascertaining the panicle, florets pointed or award, points of the found the greatest amount of ignorance, pre- looked like a pacce of foolish, wilful destruction. effect of different soils on the same plant.— Colin smooth and succident, contain most must be grasses were either planted, or sown, and their produce ent and collected, and dried at the proper seasons, in summer and authority by Smelar, his Grace's carding for the sound of the same plant.— Colin smooth and succident, contain most must be graded in the grown of the same plant.— There is no field of human last bour (we speak of productive labour) which they seat must be seen in the contrast between the dark, green, healthy, and luxurant appearance of these bour same plant.— There is no field of human last bour (we speak of productive labour) which and sake, green, healthy, and luxurant appearance of the same plant.— There is no field of human last bour (we speak of productive labour) which are same plant.— There is no field of human last bour (we speak of productive labour) which are same plant and distinguished and street and collected and dried at the proper seasons, in summer and authority seasons are same plant.— There is no field of human last bour (we speak of productive labour) which are same plant and street and collected and dried at the proper seasons, in summer and authority seasons are same plant.— There is no field of human last bour (we speak of productive labour) which are same plant and street and collected and dried and seasons are same plant and street and collected and dried atter and bitter extractive.

absolutely requires for its tolerable cultivation pearance of those parts that were left. We so Grasses with strong, creeping roots, more preparation, more intelligence and training the practice highly recommended by sespike, contain a greater proportion of buter extract with muchage. (Hort. Gram. Wob. branches. There is none, in which more state that oats, barley bonnes and the practice highly recommended by selective with muchage. (Hort. Gram. Wob. branches. There is none, in which more state that oats, barley bonnes and the practice highly recommended by selective with muchage. (Hort. Gram. Wob. branches. There is none, in which more state that oats, barley bonnes and the practice highly recommended by selective with muchage. lowed the application of scientific knowledge tage whenever the surface of the ground be-J. B. Thorold. We are very much gratified time, us in this. We might easily refer to are liable to after a heavy rain.

The benefit of harrowing, wethink, will be formed in the country for the same object. And leave that part of the subject until another greatest when applied to wheat fields, which time. Is it not strange, then, that while the have been somewhat winter killed. It should cating to each other the results of their reading, blacksmith must serve his apprenticeship not be attempted until the ground has settled and experience, and, when anything of two before any man will allow him to mail a shown in a transfer of the settled and experience. and experience, and, when anything of importance transpored, sending a short account
upon his horse—the surveyor, the doctor, the
should be a light one, with fine teeth and not lawyer, go through a course of preliminary too many of them, may be followed by a roll-We study of years, and finally undergo examinater to press the roots that are laid bare by the tion, and attain permission to practice their harrow into the earth. We should think that several professions, the veriest dolt, he who the morning of a day that promises showers tions, to not as Agents for us. He might, has failed in every other business, and who in the afternoon, would be the most suitable the course of the cause of Agra could not perhaps tell you the difference between a dang-fork and a harrow, thinks himthat we saw it done, and although the plants not step with the 12 names sent. He took more self quite equal to the business of farming! were pretty large, and were consequently trouble than we expect from correspondents, in and that while hundreds of this class are de-congoing the pares enclosed, as these kind of themse and abusing the generous earth, and things can be had in any quantity from our ex-changes, and as it is much easier to set from thousands more of those who have served a know that any thing had been going on in the printed than from written copy, we should much sort of apprenticeship to very ignorant and wheat-field unless from its freshened appearhas a Laterary laste, we should be glad to find maskiful masters, are daily "suffering for lance. Surring the earth encourages tillering, has a laterary taste, we should be glad to find room for how in that department.

L. W., Walsingham. Your case, if you tell the to alter this state of chings! That neither and thus makes up far more than is lost by truth, is certainly a bad one. We commisserate Government nor associations of individuals the few that are destroyed. Some have used who should thank it worth while to try the experi- harrows with wooden teeth, asserting that could not offered to pay 7s. bil for our paper, ment of adopting the same means for the different scale gon a copy on credit, hoping fusion of knowledge upon this subject, and hope these remarks may induce some of our but to send us the subscription. For may, at for the advancement of the interests of all readers who have never tried this practice to teast, induce others to subscrete, who can pays the reast and a treatise on eat food that we asked for, but the statement of an experiment, by (and who is not) that they use mevery other? themselves of as usefulness. From all ap-

umph, gaining in velocity and force as it proceeds, and overcoming all obstacles. We shall advocate the propriety of introducing the study of agriculture, and the elementary AGRICULTURE A BRANCH OF more immediately connected, into our comfound that the addition of another would be never was a greater farce than the attempt to teach children under the age of twelve or fifteen, a knowledge of its rules and principles.

of her industry, and in every department of and the effect upon the prosperity of our

HARROWING GRAIN.

The practice of harrowing wheat fields in -in which the greatest portion of our popu- the result; the wheat plants were trodden lation are, and must ever be engaged, so it is down, some form up, and others covered over that in which unfortunately there is to be with the loosened earth, and altogether it branches. There is none, in which more state that oats, barley, hemp, and all spring beneficial, more wonderful results have fuland philosophical investigation, in so short a comes hard and encrusted, which all clay soils

We shall return to this subject again, and pearances there will be occasion to make use we shall not drop it till we see the "ball in of every expedient to remedy the effect of the motion," and in a fair way to roll on in tri- present winter upon the wheat crops of a great part of Canada.

THE GARDEN.

No one who has the control of a square rood of ground should be without a gurden. To those who are engaged in sedentary, in-STUDY IN THE COMMON SCHOOLS. I mon schools. Our common school system is door pursuits, the cultivation of a small gar-We have copied, on our first page, some in a very imperfect state. There is great den affords an agreeable, healthful recreation, essential. There are branches of study pur- such on yments. The farmer, whether " Kitchen Garden." He will find it quite as profitable as any other part of his business, by the female members of the family, except perhaps the digging and manuring of the soil, which, we assure the ladies, we think they ought not to be expected to do. But we thus show our devotion to their interests, we scarch, as connected with their feeding pro- we have been told by a person who has taken great a distaste for that which they have been expose ourselves to the censure of very high