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WOOD CUTS.

We send this number to our readers, as they will observe, without any wood-cut, or nctorial embellishment. We did not pronise them in every number, and shall not, herefore, break our promise by withholding. for the illustration of such subjects as were contained in our last two or three numbers they are very useful and indeed indispensamore utilitarian in our helief, and so long as wish now to have it in possession. better cannot be had we shall not take much and efficient service rendered, since the comtrouble to obtain these. After we become intercement of the present century, by the dethoroughly established we shall make a practive sons of genus, who have given a portion tice of giving at least one illustration of some- of their time to the chicidation of the princithing useful in every number. For the remainder of this volume we shall make no pro-that needs only to be followed up, rigidly and mises, though if any thing important comes unremittingly, to result in all the benefits in our way we shall not neglect it and our But, we ask, what has been the success in readers will, we feel sure, approve the policy of such a course, when we inform them that with the improvements in the mechanic arts, every cut of the kind we have presented as shown in the application of steam, mathem, cost five and six dollars. It will be seen chinery for the manufacture of the different that this would make a protest investment item fabries from wool, cotton, silk, the metals: that this would make a pretty important item in our bill of expenses by the end of the year. We must therefore wait till the good and liberal public have moved in our behalf.

AGRICULTURAL COLLEGES.

The 19th century presents the singular anomaly, of an age, skillful to a degree beyond any that has preceded it, in all the arts that minister to the comforts and luxuries of man, with the single exception of that art. which is alone the base and support of all others—the art of an enlightened a; riculture. All the elegancies of life too, and the refinements of intellectual culture, the useful and recondite sciences, literature, poetry, music. painting, and sculpture, have been patronised. illustrated, and studied, under every advantage, and have thus been pushed far toward their maximum of improvement; yet is the foundation of this varied and beautiful superstructure, the only portion of the edifice which is destitute of strength, order, symmetry, or design. And if we look back through the history of the ancients, reaching, according to the most approved chronology, much farther than 6,000 years, we find no record from which we can learn that any branch of day.

We shall not attempt to account for this gross and most mexcusable neglect, beyond the effect of that principle, which may be alost taken as an axiom in human conduct, Supreme ratio of the Deity's munificence. Benevolence has wisely provided for the success of the humblest efforts of unenlightened earth the elements of subsistence; and on the very threshold of success, have all human efforts been arrested. Content with having achieved the bare means of existence, the human mind has been stayed in this vast field of enquiry; and has turned away from it. if not with loathing, at least with judifference, and with a keen and delighted relish for other and less important and less praiseworthy objects of ambition. Whence comes this lack of reason, this short-sightedness to our own best interests? We must acknowledge ourselves have been before employed. petent to give the answer, and we gladly soign the solution of this difficult problem to our modern philosophers, who are so worthisying themselves with the "law of pro

that the world has both rto taken but the initiatory steps in the art of agriculture; and this broad land. like the western bemisphere in the days of Columbus, remains aftern incognita, an unexplored continent, myiting the most intelligent research, and ready to pay its explorers with the richest rewards. It may be true, indeed, that portions of this goodly land have been heretofore discovered by the Northmen of preceding times, and even inlimbited by a refined race of Aztelans possessble, but, we cannot see what benefit is to be ing a high degree of culture; yet to the derived (unless by the children, who are fond present race of man, no chart or history has of "pretty pictures," and that to be sure is well-defined boundaries. Whatever discoveomething.) by presenting likenesses of hulls ries may have been made in this great art in and cows that fixed and died somewhere in the early ages of the world, by the Egyptians, or other early evalued nations, who years ago? We could illustrate in this way dilawans, a see nee and practice for beyond at a cheap cost, by scading off to Albany or any thus far reached by successive genera-New York for the old stereotyped plates to tions—it is certain, that modern enquirers be found there in any number. But we are must re-discover it for themselves, if they

We would not be ungrateful for the worthy that needs only to be followed up, rigidly and which may fairly be demanded at their hands. with the improvements in the mechanic arts, and the various other new and important aids rendered to the useful occupations of the present day? With the facilities afforded by the above inventions, one person can now do as much, as could have been accomplished by twenty, without them, only 40 years ago. Can any approximation to such improvement be shown in the cultivation of the soil ? We smak not of the mechanical instruments of the farm, which have measurably, and perhaps to the extent which could have been expected, participated in the modern progress of improvement.

Our meaning is much broader and deeper. and includes the whole science of agriculture, mall its varied phases and relations. We look to, and demand for agriculture, that enlarged and liberal measure of discovery, which will enable the human race to provide sustenance for its thousand millions of inhabitants. now covering the face of the earth, destined, probably, hereafter, to be indefinitely augmented; with an approximation to that certainty and success, that attends human labour in the other departments of life. We prepare our land and sow it to wheat, or plant it in corn; and after much doubt and uncertainty. reap from the first an average, in these United States, probably, not exceeding 14 bushels: the world's ancestry has been wiser in this and gather from the last, not more than 20 respect, than their descendants of the present bushels per acre. Yet we have seen under favourable circumstances, that the former has yielded 80 bushels, and the latter over 180 We claim, that abating bushels per acre. somewhat from the accidents of seasons, unusual droughts, humidity, or frosts; or perthat man's exertions are withheld, just in the | chance, the destruction following upon the eccentricities of the elements, as a hail-storm. or whirlwind, on an ungarnered crop, we might look for the highest results from every reason, in its struggles to procure from the well-directed effort, with the same confidence that we now r look to the attainment of any given speed from a steamboat, after providing it with a suitable model, engine, and fuel; or the weaving a definite number of yards by a power loom, properly constructed, and moved by the requisite force. To accomplish thus much, we have but to place our soil, and seed, and culture, in the same precise conditions. that have once been successful; and yet how sektom is this achieved, even on the same field, and under the same direction as many

If we look beyond the discoveries hitherto applied, and bring . he science of agriculture such amalogies as appropriatete to the subject, as shown from the progress of human

sidered as perfectly Utopian. What brilliant puscular light which heralds the coming green and enduring wreaths of glory are destined to circle the brow of genius, who may hereafter successfully explore this hitherto almost untrodden waste. And how the comforts of this world, and its means of subsistence will be multiplied, when all the aids to its cultivation are rendered, which mankind large a right to demand. have a right to demand.

and beyond the reach of any hostile innova-tions of the fickle multitude; and such an institution should be endowed with a permanent fund of one third, to half a million of dollars. In this institution, we would place a chemist run each out to a clear distruct and definite cold water. Keep it maresult. These professors should be such as the where it will not freeze. choicest spirits of the age could afford; surrounded with all necessary assistants, books. and apparatus, and a well conducted and sufficiently extended farm; and their services, should be secured by a compensation perfectly adequate to their entire independence for life. Under these circumetances, we should have a series of experiments following each starting point for another, and each department would be aided in its researches, by all the light afforded to it by the others.

With such an institution, how long would, does in consulting his chart and compass?

would revolutionize the practice of agriculture within the present age, and more than double the products of the earth with the same labour and expense now devoted to them. Expressing his doubts that his government, which al bounty.

distinguishable only by its intensity of dark-Dess.

We must confess our hopen in the beneficial results of the present efforts in the cause of agriculture-our enquiries and discussions -our treatises and periodicals-our agricultural premiums and shows-come up to this extent, and scarcely more: they are awakenrese;" from whom alone it must come, if it invention in other departments of enterprise, ing the public mind to a sense of its deficienment all.

Whatever the cause may be, certain it is, aid of this object, which would now be con-

results may yet crown the researches of the morn, but they are not the glorious effulgence devotee of agricultural science, and what of the king of day. But his approach is indi-

We shall soon have, not only one, but a multitude of agricultural colleges, and when We have then our deficiencies for the they have had time fully to mature their present and past, and our hopes for the future truits, a certain and overwhelming abundance pointed out. Where are the remedies for will crown the efforts of every collabtened the former, and the proper and reliable foundations for the latter? First and mainly, it may be answered, in bringing the right minds westigation and acquirement, where they to the just and full consideration of this subject; and secondly, and as a necessary se- ness. They must be planted, in all the vigour quence to the former, the application of the of manhood, on an immovable basis, where requisite amount of funds, which shall secure agriculture, and nothing but agriculture, genus of the highest cast, under all the circulture, shall be the theme and sole object of pursuit, constances of advantage, essential to its fullest to both professor and student. And well might they content themselves with the study Birefly, and in a form that all may com- of this single science, that embraces within prehend, we say; we want an agricultural at comprehensive grasp. (however disdaininstitution, founded and arranged on the best fully it may heretofore have been considered, principles which can be dictated by enlighten- by flippant scholars and shallow philosophers,) ed experience, sound judgement, and a almost the entire range of the natural sciences, shrewd common sense; and so quarded, as emoodying as they do, the most abstruse, as to be unassailable by the corruptions of party, well as the most beautiful investigations of the

> R. L. ALLEN. [Agriculturist.

How to treat Bread when taken from an Oven.-Never set it flat on the table, as it sweats and geologist; an anatomist and phisiologist; the bottom, and acquires a bad late from the a botanist; an entomologist; and a practical table. Always take it out of the tims, and set it up agriculturist, who should give embodiment end way, leaning against something. If it has a nid effect to the suggestions of science, and thack, hard crist, wrap it in a cloth wring out of Keep it in a tin oox, in a cool place,

GRASS.

(Goth. gras; from gro, to germinate, to sprout). The common herbage of the field on which cattle feed.

The grasses, it has been often and well There is, persaid, "are nature's care." other in well-arranged and appropriate suc-cession; the results of one, constituting the understood as this. "Grass," says Professor Martyn, "vulgarly forms one single idea , and a husbandman, when he is looking over his enclosures, does not dream that there are upwards of 300 species of grass, of which 30 With such an institution, how long would, or 40 may be at present under his eye. They it be, ere the tyro in agriculture could go to have scarcely had a name besides the general it, with the same certainty of receiving the one till within these 20 years; and the few requisite information, that the mariner now particular names which have been given them are far from having obtained general use, so The slow and daugerous coasting, and shoals that we may fairly assert that the knowledge and breakers, that now mark out his benight- of this most common and useful tribe of plants ed course, would at once give way to bolder 15 yet in its infancy." (Letters on Botany, movements, and more direct and certain suc- (xiii.) It is certain, however, that since Professor Martyn wrote, much has been done Such an Institution Mr. Allen remarks, to add to our knowledge of the grasses. These grow in all parts of the world promiscuously, and without cultivation, affording both directly and indirectly the means of subsistence to man. Europeans live chiefly upon wheat, rye, and barley, to which list their American descendants have added maize or Indian corn. "The cultivation of the carth," says annually makes a peace appropriation of from Professor Johnson, "preceded the improve-\$10, to 12,000,000 for war—as a preparation ment of the intellect, and was the herald of for human butchery, will be likely to give civilization. It is remarkable that we have even the twentieth part of that sum for such no direct enterion of the origin of many of these grasses met with everywhere in cultia purpose, he urges the necessity of individue vation, as mone of them are, to any extent found wild. Some travellers have thought, vas indigenous to Tartary tality, for one sufficiently enlightened to grasp, to Creta, and wheat to Asia, but these might it, and the man who shall have the good sense have been diffused from some cultivated some and liberality, to found the first Agricultural years previously. Corn is not only the sup-College on the enlarged and munificent plant port of man, but the grasses are the subsist-proposed, will secure a fame for all coming ence of the animals which form his nutritime, before whose brightness that of an Alex- ment. The nutritive quality of grasses is ander or a Napoleon would become dim, or principally owing to the augur which they contain, and of which some English grasses contai. large quantities, but the sugar cane is the only grass that is exclusively cultivated for obtaining this article for commerce. grasses are applied to a vast variety of important mechanical purposes; they are found in every part of the world, from the Poles to ator; on the land, as well as floating on the water, and are the universal food of animals."

The botanist has shown that there are