THE COLUMBIAN AND DEMOCRAT, BLOOMSBURG, COLUMBIA COLNTY, PA.

Agricultural.

The Sugar beet and the beet Sugar.

Mr Editor : In a recent issue of your pa per I read with much interest your publication of the premiums awarded by the Delaware Sugar Beet Commissioners, as well as the report of the Riverside Works. The subject being of so much importance, I hope you will find space for a few remarks I have to make on it :

The results obtained by the beet grower seem from a manufacturing point of view encouraging, although the quality of the beet to some extent is sacrificed for the quantity, and it it is very much to be regretted that the richness of the beet in sugar and the puricy of julce are not the points that carry the premiums, the farmer being is already lavelled. naturally interested in large yield, so that no encouragement on this point is needed. From what I here have said you will un derstand that I think that John Satterfield, Canterbury, ought to have received the first premium for his beets, which contained 12 28 per cent, sugar, the yield per acre being

at the rate of 15] tons, and it is certainly a pity to see these beets coming in as the very last. As I hinted above, the purity of the juice is a very important matter.

The impurities of the juice consist mainly of saits of potassa, ammenia, magnesia and others, and of organic matter a albuminolds, &c., and the juice is not thought of much value to the factory if it in 100 parts of solid matter does not contain at least 7 per cent, of sugar. According to this i will be understood how important it is to grow beets rich in angar and poor in impurities

To obtain this result, you should by al means avoid the use of barayard manuredirect to the beet crop, as this, as well as ar tificial nitric fertilizers, are found to cause a considerable increase in the impurities which probably is due to the great develop ment of the roots. The sugar consists of hydrogen oxygen and carbon, which the plants extract from the air which explainfirstly, the great impuriance of the leaves secondly, why the sugar does not increase with the salt and the size of the beet.

From the above, it will be understood that the value of the beet decreases mor rapidly than the contents of sugar ; so that a beet of 8 per, cent sugar is not worth hall as much as one containing twelve per cent

The bright prospect is, as you will under stand not to be found in the percentage of sur. ar contained in the beets under notice, but i to be found in the very considerable yield per acre obtained -twelve to fifteen tons per acre being in Europe considered a fair average yield, whereas Mr. E. C. Fenimore, of odessa, who carried first premium for beet of 10 27 per cent. sugar reaches 27 tons per

How Mr. F. has cultivated his land I di not know, but I consider it highly probable that he has used barnyard manure or other nitric fertilizers direct to the crop, and has grown high beets in rows at a distance of about 30 inches from one another. Now, it this system has been modified according to the rules that govern the European beet growing, it is more than probable, that a real good beet, with a sugar contents of 13 per cent. or above might have been pro duced. What here is said of Mr. F's crop can more or less be applied to the other too, and here lies the encouragement which can be derived from the present results, al though it, at the same time, must be distinctly borne in mind that ten per cent. stigar is too little.

As to the future success of the beet trade in this country, it must, in the first place be said to depend upon the farmers who grows the beet. The factory can only extract the sugar, not produce it, and as the

States amounts to about \$80,000,000 worth, and the enormous influence the production of this would have on trade in general can not well be overstated.

All the sogar producing countries in Europe demand the same tax paid of the sugar made in the country as of foreign imports, and still the manufacture of sugar, generally speaking pays handsomely. It seems, therefore, doubtless that the trade here would be very remunerative. The chain has, however, a good many links, and a good deal

of energy, labor and patience is required before you see the result. The industry has but slowly developed itself in Europe to its present state, but America can now avail itself of many years' experience gatheted in Europe, and what there has cost niilions]to require can here be reached in a much casier and cheaper way. The path

H.J. K.

Low Prices for Butter. The New York Tribune in its market report, explained why some butter is sold for uch low prices. In speaking of butter it said 'Light colored goods are very hard to Repose of and several lots were thought well sold at S to 10 cents," If hutter makers would get the top price, they should use he Perfected Butter Color, made by Wells Richardson & Co., Burlington Vt. It gives a pure daudelion color and never turns red, or rancid, but tends to improve and preserve the butter.

Daniel Webster taid great emphasis on invarsation as one of the most important arces of imagery as well as of positive nowledge. 'In my elucation,' he once remarked to Charles Summer, "I have found hat conversation with the intelligent men I ave had the good fortune to meet has done ore for me than books ever did: for I learn nore from them in a talk of half an hour than I could possibly learn from their books. Cheir minds, in conversation, come into inimate contact with my own mind ; and I absorb certain secrets of their power, what ever may be its quality, which I could not letect in their own works. Converse, converse, CONVERSE with living men face to face, and mind to mind, that is one of the best sources of knowledge.*

Fees of Ductors.

The fee of doctors is an item that very nany persons are interested in just at pres-We believe the schedule for visits is ht. 5.00, which would tax a man confined to his bed for a year, and in need of a daily isit, over \$1,000 a year for medical attenlance alone ! And one single bottle of Hop Bitters taken in time would save the \$1,000 and all the year's sickness,-Ed. Λ very rich old man had married a young

vife and died suddenly, on which the widow rayed like a maniac and exclaimed to the loctor who stood by the bed-ide of the deeased: "On, I'll not believe that my dear partner is dead; he could not die and leave ne! No, no! he's alive-I'm sure he's dive! Tell me, doctor, do'nt you think so?" 'Madam," replied the medical man with much gravity, "I confess that it is possible that he may be ravived. I will apply the zalvanie battery." Oh, no, no !" cried the grief-stricken widow, "Hard as it is to bear my fate, I will have no experiment against the law of nature. Let him rest in peace." After all, a gentle purgative is the best

means of curing headache. liver complaint, biliousness, &c. Use 'Sellers Liver Pills,"



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ntely after enting the fermentation of food is prevented. It acts upon the Liver. It acts upon the Kidners. It Regulates the Bowels It Partifies the Blood. It Quiets the Norrous System. It promotes Digestion. It Nourishes, Strengthens and Insignation. It couries of the Oid Blood and makes new. It opens the pares of the skin and induces Healthy Perspiration. It neutralizes the heredilary taint, or poison in the blood, which generates Scrotha, Livreples, and all manner of akin diseases and house human terms. There are no purity employed in its manufactures, and it can be taken by the most disease have, or by the aged and feeling.

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Dest stellerine invert Cseut. Eiden, wysming county, Pa. Dear Sir i-1 had been troubled for a long time either Pain in my Stomach, and found no Freilef and it the best medicine in use, and I can recommend it the best medicine in use, and I can recommend it all, old and young It saves many dollars in loctors bills, and one large bottle did me more good ann five dollars worth of other medicine. Mariam Labarr.

An Astonishing Cure.

Monroe, Wyomhig county, Pa. Dear Sir: --That been afflicted with a Cough, Loss 7 Appetite and Dyspersia for ten years. I could not properly attend to my business, and hearing of rour justly celebrated indian Blood Syran, I resolved to try it, which I did, and in a Short time was much improved. I now have a good Appetite, and have enjoyed good health ever since I commenced its use. J. Labarr.

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Bowman's Creek, Wyoming county, Pa. Dear Sir :-1 had Sick Headache and by the use 0 our Indian Brod syrup 1 was greatly relieved. sconmend all to try its valuable properties. J. W. Burnett.

The Remedy did more than she Expected. 25c

Newberry, Lycoming county, Pa. Dear Sir:-The Iadian Blood Syrup did more than 1 expected it would and it has cured me of Liver Complaint. I use it as a Medicine and would not be without it.

Mrs, Mary Charman. Headache and Dizziness.

Williamsport, Lycoming county, Pa. Dear sir :-- Your Indian Blood Syrup has cured me of Headache, Dizziness and Loss of Appetite, so that an now able to work in my factory. My wife de-rived more benefit from its use than from any other membras

Henry Russel. Would not be Without it. Williamsport, Lycoming county, Pa. Dear Sir :- The induan Blood Syrup is the Best yer used and I would not be without it, it is good or all complaints.

John Burkhart. Diseases of the Stomach.

Eaton, Wyoming county, Pa. Dear Sir .--This is to certify that I had a Weak Nonach and could est no meat or any hearly food vhatever. By a friend's aiv ce 1 commenced the ise of your indian Nood Sprup, which after a short rak effectually relayed me and 1 can now est withing 1 choose. Your Syrup gives universal



beet is the result will be.

The sugar beet is a plant that requires a high culture, so much so indeed that it can be said to be the flower of the high culture of European farming.

The beet requires a deep rich soil and well drained soil, free from too much weed-The deepness of the soil, that is to say the depth which you can plow without bring ing raw and unfertile earth to the surface. can only very gradually be increased. In deepening the soil you must be governeby the amount of manure which you can expend on the ground, and which, if you ers from the cradle of their race on the in the course of a few years increase your depth two or three inches, amounts to very lution of the problem has been suggested. considerable quantities. On this point must, however, be made in distinction be

tween organic and ignorganic manures, the last-named being geneally found abundantly in the subsoil. The above remark thus only refers to barnyard and other nitric manures.

What, however, at ense can and must h done is looscing the sub-ail, which openit up to the beneficial influence of the air and gradually mixes it with the f rtilearth above. When steam is used for plow ing this can of course, best be done by steam grubbing, but in Europe it is gene rally found cheaper to use a horse crubber that follows the plow in the new mail farms. A rich soil implies a proper amount of organic an inorganic matter tound it. n state accessible to the plant, and the sour main manures required by the beet plant are to, it's the waul, nitrogenous manures, phosphates, lime and

potassa. The last named is generally found in

abundance in the soil, and need therefore not be added. The contents of the soil of lims is very variable, and where it is wanting it should be given. Where grain and clover have been grown for years phosphoricacid is likely to be somewhat wanting and this is nitrogenous manures should be added. The best and cheapest nitric ferti lizer is in most cases found in the barnyard manure, which also contains a good many other substance mainly dependent upon the food given the cattle The barnyard ma-

nure should be kept as well protected from the influence of the sun and rain as possible. In Europe lofty stables, with movabl cribs where the manure accumulates below the cattle, has of late years come much into use and answers that purpose excel-

lantly. he importance of draining is, in general well understood, but especially for sugar beet it becomes of great impotance, as the surface water standing about gives the plant only too easy access to the salt contained in Wine Bitters in their practice for years, to the ground and produces impure juices.

Drainage is generally carried out in Euthemselves, and take great pleasure in recommending them to the public as being all rope to a depth of fourfeet. The deep drains take the water first and run longest and are that is claimed for them, and, in fact, the most reliable they can find. For sale by C not liable to become choked with plant A. Kleim, Bloomsburg, Pa. roots.

I will now make a brief remark as to the benefical influence of the beet on the agriculture. One of the main points is to be sought in the large amount of caule f od produced and, consequently, the large live stocks kept by the farmers This enables

of all description are relieved at once, and him to manure richly, and thus secure a speedily cured by Kidney-Wort. It ceems BUSINESS CARDS large return of the crops. If you, however, ntended by nature for the cure of all diseaconsider the influence of deep culture o the thorough weeding the beet fields get, ses of the kidneys caused by weakness and debility. Its great tonle powers are especthe influence and importance will at once ially directed to the removal of this class of be seen.

The importance of sugar to the Unite disease. Try it to day.

have been brought to light, the most curious 0 d which is a scraper of jade, highly finished, and in a condition as perfect as when BSOL it left the hands of the workingmen. The puestion arises, and is being warmly disused by the learned in lacustrine lore, how this instrument made of a mineral which exists in a natural state only in Asia car

have found its way into the Rhone gravel SALERATUS at Geneva. Was jude ever an article of rade between the West and the East i ore historic times, or is the scraper a sol tary species men brought by Aryan wander Hindoo Kosch? As yet no satisfactory so

Asthmatic troubles disappear under the nagic dispelling wand of Dr. Browning's C. & C. Cordial. A certain lady was so much troubled with this dreadful disease that it was impossible for her to lie down She was recommended to see Dr. Browning, who is a regular graduate of one of the old est and best known medical colleges in the

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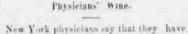
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and the second second