# THE COLUMBIAN AND DEMOCRAT, BLOOMSBURG, COLUMBIA COUNTY, PA.

#### Exhaustion of soil.

BY J. B. LAWES, LL. D., ROTHAMSTED, ENGLAND.

Considerable fault has been found with me for saying that profitable ag-riculture is founded upon the exhaus-tion of the soil : if exhaustion is considered an unsuitable term, I do not object to change the word for reduc tion of its fertility. The prices of the various products of the farm are regulated chiefly by the labor expended on their production, and not upon the amount of soil ingredients which they remove from the land. If all nations agreed to pass a law compelling every farmer to restore to the land the whole of the ingredients which he removed by his crops, we should not only see such a law followed by a very general, and large rise in the price of our ordi-nary foods, but also that the relative cost of the foods themselves would be very much altered. Even without such a law we find that necessity, from time to time, compels farmers to simmons Liver Regulator soon eradicates this, disease from the system, leaving the skin clear and free from all impurities. cropping; thus, when they find the fertility of their land decreasing, they devote themselves to cultivating such products as contain more atmospheric and fewer soil constituents. For instance, let us take the case of sugar beet. If the roots are sold off the farm, in each 2,000 lbs. of the dry roots about 175 lbs. of soil products will be removed from the land; while J. H. ZEILIN & CO. by the conversion of the same amount of sugar beet into beef, or mutton, only about 10 lbs, of soil products will be removed; and if the beets is converted into sugar none of the soil products need be lost to the land.

For further illustrations, I will follow grass through the same series. If sold as hay, seven or eight per cent of the soil constituents are removed from the land ; very much less, if the grass is converted into milk ; still less if converted into butter; this last being a purely atmospherical product, all the soil constituents may find their way back to the land, except perhaps some small portion, which in the form of skim-milk, might be used to produce pork. It takes 5 or 6 lbs. of corn to produce 1 the source of the sou produce 1 lb increase in a pig; a large per centage of this increase is fat, and a farmer who preserves the blood and offal, would exhaust very little of his soil products in producing bacon. It is the rich fatty cheese which com-mands the high price; and the low priced skim-milk cheese which is com paratively rich in soil products. The same law holds good with regard to flour; the finest flour is exceedingly poor, both in nitrogen and minerals, coarser flour contains more, and bran a still larger amount of the soil ingredients. As man cannot exist without a certain amount of these soil products in his food, and as all his efforts in the production of his food are directed towards getting rid of such soil products, the way in which he obtains them in a separate form becomes rather an interesting physiological question.—Amer-ican Agriculturist for April.

#### To Grow the Lima Bean Successfully.

The Lima bean is one of our most pop-ular and desirable vegetables; but for one reason or another many people have trouble in getting them to do well and some people in getting them at all. This bean loves heat, dislikes cold mois-



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work, nervous debility, &c. V. hatever the cause, don't neglect it. Something is wrong and needs prompt attention. No medicine has yet been discovered that will so quickly and surely cure such diseases as BROWN'S IRON BITTERS, and it does this by commencing at the foundation, and making the blood pure and rich.

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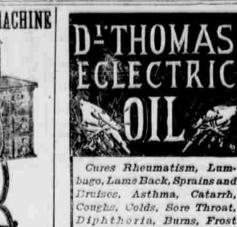
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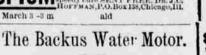
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SPRING GOODS

ON HAND.

ture, and delights in loose, rich soil. Those who wish to succeed have to be careful that all the conditions are fully insured. In order to guard against damp the earth is drawn into good seized hills, so that any superabundant moisture can pass rapidly away. If the soil be heavy a large portion of roadsand or even finely sifted coal ashes should be mixed with the soil in these hills, and if one can have access to a cow-yard, well decomposed manure from such a locality is the perfection of food to the Lima bean. Then in planting, they ought to be set but just beneath the surface, or they will be very liable to rot in pushing their way through. It does no harm either to push them in the ground edgewise, as the sprouting green comes up the sooner.

But with even all these precautions for dryness, food and warmth, people often plant too soon ; a cold rain follows and the seed rots. Four sound looking beans are enough for each hill, and if all grow and do well one may be taken out. But as a very sure-we may say certain—guarntee against the seed rot-ting grease with tallow the beans be-fore planting. We have in fact never failed in our own crop, in following out this method, unless through a prolonged drought like that of last year, and even then we had at least half a

Look to the Fruit-Crop.

Now is the time to increase your apple, pear and peach oychards. The extent of ground required by these orchards is so small as scarcely to be missed in a moderate seized farm, and will produce more profit for the land occupied than perhaps any other crop with which it could be substituted. Where your apples and pears are not of the most productive and paying va-ricties and the trees are not too large,

grafting should be resorted to. Some whole trees that are in good health and vigorous growers may have nearly the entire top grafted with superior kinds ; and this should be always done after it has been discovered the fruit is not true to name or fails to be productive. As to peaches, they are almost universally budded, and this is done most generally in June and July.

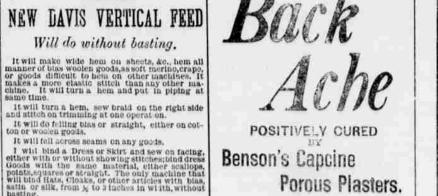
In gardens poisonous plants are de clared by the Gardeners' Magazine to be a few in number, and of no great It will make knife platting value for decorative purposes: A very large preportion of the flowers that are in highest repute for beauty, such as the rose, dahlia, pelargonium, begonia, wallflower, stock carnation and primma, A DVERTISERS by anarcssing (EO. P. ROWELL CO., 10 Sprice St., New York, can learn the exact cost of any proposed line of ADVERTISING In American Newspapers, 287100-page Pamphlet are altogether harmless; although for the most part of no value whatever as articles of food. But as there are so NOTICE OF APPLICATION FOR CHARTER OF INTENDED CORFORATION. INOTICE IS DEVELOPMENT OF A STATE OF A S many decorative plants that will not injure, even if eaten, it is easy to exelude from the garden a certain few that are noxicus, and have sometimes been associated with sad fatalities. The rooting out of the great blue ac-onite or moonks hood, the root of which contains a virulent poison, and has yet been many times severed on the table as horseradish, is therefore re commended.

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Fourth. Because they will positively cure diseases which ther remedies will not even relieve. Fifths.

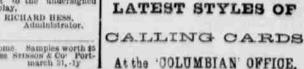
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