AGRICULTURAL NEWS, FACTS AND SUGGESTIONS.

THE TEST OF THE NATIONAL WELFARE IS THE INTELLI GENCE AND PROSPERITY OF THE FARMER.

Every farmer in his annual experience discovers something of value. Write it and send it to the "Agricultural Editor of the DEMOCRAT, Bellefonte, Penn'a," that other farmers may have the benefit of it. Let communications be timely, and be sure that they are brief and well pointed.

Spring mud is spt to start "foul hoof" among the neat cattle, and if allowed to get ahead it proves troublesome to the owner, as well as exceedingly painful to the patient. A couple of cases occurred in our own yard a few days since, but prompt treatment with a mixture of pine tar, carbolic aoid, and sulphur, after thorough cleansing, showed its good effects immediately, and effected a complete cure in four days.

WE should think that seven cents per pound ought to purchase nails which would hold together long enough to be driven through something thicker and harder than an inch pine board, but it seems we are mistaken. Last week we were trying to utilize some old split rails, by mak- our old and substantial contemporaring some of the "Oliver Patent Fence" noticed in our issue of February 26, and new nails, purchased for the purpose, and some of them as large as 20d, flew to bits as though they were cast iron. We partially obviated the difficulty by keeping an old fruit can filled with oil at hand, attempting to drive it. Nail-makers cinder as the base of their manufac-

THE DEMOCRAT acknowledges the receipt, by mail, of a small package of choice plants from Mr. J. T. Lovett, Little Silver, Monmouth county, N. J. Among them are the Sharpless Strawberry and Cuthbert Raspberry, regarding which so many good things are being said by eminent horticulturists. Mr. Lovett's method of packing plants for shipment by mail, in damp moss and oiled paper, seems to be as near perfect as may be, as, after their long trip, ours arrived in as good condition as though they had been just taken out of the ground.

Mr. Joseph Harris, of Rochester, N.Y., has also placed us under obligations for a package of his well-known "Moreton Farm" seeds. We have fruit. already had occasion to speak of the good qualities of Mr. Harris' seeds, which we have heretofore proven, by personal use, to be always fresh and

MESSRS. H. J. BAKER & BRO., of New York, send us their circular of Forrester's complete manures, and call our attention particularly to that made expressly for the potato crop. While we believe that no chemical fertilizers can ever be used successfully as substitutes for well-made and well-kept stable manure, from prop- us that a cow whose feed is only hay formed a series of experiments on of thousands, of just such men as erly fed animals, we do think that this, used as land manure, may be than one pound of butter from thirtyprofitably supplemented, in many cases, three pounds of meal. by these, as special crop manures. There is but little danger of our manuring too much, if we use all the stable manure we can make, and add stances,—on the kind of food with in weight that can be produced by a all the special fertilizers we can afford to buy. Among the palpable advantages to be gained by the use of good commercial fertilizers would be absence of weed seeds; economy of transportation and application, by the medium for conveying it to the reason of their concentrated strength; fields; and whether means are taken and prompt returns, because, being to increase the quality as well as the finely ground and in soluble form, they are immediately available. The progressive farmers, and is receiving it very largely. Possibly we shall make some experiments in this direction during the coming season, and if so, will give the DEMOCRAT's readers the benefit of them.

Since writing the above paragraph, the American Agriculturist for April a very good purpose. has appeared, devoting nearly one page to a very interesting tabulated statement of the results of field experiments with fertilizers in 1878 and 1879, and the remainder of this page year. These experiments were begun | for seed.

under the auspices of the Agriculturist in 1878, continued last year, and will be continued this. They are not Chambers street, New York, have favored made by persons connected with the us with their seed catalogue and price list. paper, nor by those interested in This is a new firm, the individual members selling the fertilizers, but by any farmers, anywhere, who see proper to undertake them, upon a plan propos- duct the business. They seem to start out ed by the Agriculturist, and under fully impressed with the importance of arrangements made by its publishers with several leading houses, to furnish as a new and very advantageous item in sets of bags of different fertilizers for this purpose at cost. The firm of H. J. Baker and Bro., whom we mentioned above, are one of the firms with whom this arrangement has been made. In another column we quote a portion of the Agriculturist's article to show the reasons it gives for proposing these experiments, and suggest that any who are interested in the matter send to 245 Broadway, College Farm on the relative value

It is with extreme regret that we Home, a farm journal whose advent which the experiment was continued: in the agricultural periodical world we announced less than a year ago. In mentioning its demise we would very much like to quote

"The good die young," if it were not for fear that some of ies would feel themselves called upon -though never so unwarrantablyto think that to them we apply

"But those whose lives are dry as Sum Burn to the socket." The publishers assign "lack of capital" as their reason for the failure, and it must have been this, for really we could discern no "lack" in and dipping each nail in this before the paper itself. Its corps of writers were of the very cream of the counget price enough now to warrant try. It was conducted with surpristhem in using something better than ing originality and ability. Its mechanical execution was simply perfect. For his financial losses we tender our condolences to its enterprising editor and publisher, Mr. Libby, but out chief regrets go to its readers, who are the chief losers.

Extracts and Comments.

However we may esteem other fruits, the apple is the main reliance in late winter or early spring, as there is little else in the way of fresh fruits. For cooking, no fruit is equal to the apple, which is susceptible of being served in a great variety of acceptable forms.—

American Agriculturist.

in pounds for every hundred pounds of grain:

Do not fail to set out a few good trees this spring, or graft some of the "natural fruit" standing about in out of the way places with scions procured from some tree which you know to be of a disirable variety. of grain. If we consider how nach We will never have too much good

I challenge any man to show that a farmer who has plenty of early cut hay, and will give his cows all they will eat, can get in return one extra dollar's worth of butter, by feeding them 100 lbs. of meal.—Cor. of Conn. Farmer.

That is a challenge which it seems from butter-making farmers. With butter at thirty-three cents per pound -and we notice it quoted at that figcut this paragraph—it would require but three pounds to get the dollar than the Connecticut pigs.

Out of the corn meal. It seems to

About ten years ago Dr. Miles perout of the corn meal. It seems to and meal should be able to take more

THE value of yard-manure depends which the animals are fed; whether it is left exposed to the action of the er the liquid portions are saved by the use of absorbents which become quantity.

Ir you want your chicks to grow subject is well worthy the attention of fast feed them on oatmeal scalded with sweet or sour milk. Don't fermentation takes place in it.
Where oatmeal cannot be had fine cornmeal or cracked wheat similarly treated and administered will answer

This matter of reclaiming wornout lands is not explained in a sentence, under all circumstances, but when a man wants to bring up 1879, and the remainder of this page and the whole of another in explaining the details of a continuation of these experiments for the coming

Messrs, A. D. Cowan & Co., of 114 of which have had extensive experience as seedsmen and market gardeners, and are, therefore, well qualified to properly consending only fresh and genuine seeds, and the business, propose sending samples of staple seeds free of charge, thus allowing an opportunity of testing their germinating powers before buying.

Experiments in Pig-Feeding.

INDIAN MEAL A VALUABLE PART OF THE RA-TION-GOOD MATERIAL WASTED IN COBS. From the New York Tribune

Mr. J. W. Sanborn has published the results of his third annual series of experiments at the New Hampshire New York, for a copy of the April of corn and cob meal, clear Indian meal and middlings fed with skim milk to pigs. The following table exhibits the cost in cents per pound learn of the failure of Land and of growth produced by the meal in of the three periods during

> First period. 2.4 3.0 2.5 2.6 Second Third period, period

In the third period the trial of corn and cob meal was, for necessary reasons, discontinued. Mr. Sanborn states that this is the first time in the course of three years' experiments that the increase on middlings alone has been greater than on corn meal and middlings, and that the average of his results for the three years has shown that middlings is nearly 9 per cent. more valuable than Indian meal, and that it is 15 per cent. better than Western meal; and that the difference in favor of middlings is much larger still, if the greater value of the manure is taken into account. regard to this comparison of Eastern

every sixteen quarts in the second need the same fertilizers. 6. It is period. This subtraction being made a well established fact that while it there was left the following increase

ngs.... meal and middlings...

In the fourth period the three lots of pigs were fed on corn meal alone, and gained nearly 23 pounds on 100 material is annually thrown away in the cobs of the vast corn crops of this country, the highly favorable showing for cob meal in these experiments acquires a new significance. Almost as good results as these were obtained by a Farmers' Club committee in Connecticut in some feeding experiments that were continued a little over two months; 100 pounds to us should receive some attention of corn meal yielding 23 pounds of from butter-making farmers. With increase, and 100 pounds of corn-andcob meal 21.6 pounds; a lot of pigs that were at the same time fed with whole corn produced but 18.5 pounds ure in the same paper from which we on 100 of grain. Mr. Sanborn's pigs had a better ration in the additional

feeding corn meal alone to pigs, and these all over the country; every in five series of experiments, each ex- township, every neighborhood, has tending through three or four periods one or more readers of the American of growth, the average increase on 100 pounds of meal was 23, 21.1, 20.7, 23.3 and 22 pounds respectively. It that these farmers have of their soils. a pig on corn meal diet runs up to about the same figure in all these experiments. The better results obtained by Mr. Sanborn with corn meal and milk, especially in the early stages of growth, simply confirm what everybody knows that exclu-sive corn meal feeding is not the most judicious feeding. In a series of experiments by Lawes and Gilbert, made several years ago, the pigs that were confined to corn meal became diseased, as shown by swellings on the neck; but by allowing them to have as much as they want-ed of a mixture of fine coal ashes, salt and bone meal, they were cured, and at the termination of the experiment one of these pigs gave the finest carcass out of the whole lot of 43. In these experiments, with pigs of a common breed, the following results, among others, were obtained, including some of the poorest, and

11.1 21,3

22.2 The bean and lentil meal would probably resemble pea meal in feed- mer.

ing value. In all the rations in which Indian meal predominated in these experiments, the yield was at least 20 pounds ber 100 of food.

From the result of a very extensive series of experiments on feeding swine by Heiden and others in Germany, with various grains, potatoes and sour milk, the following conclusions were deduced: Barley or Indian meal, together with about five quarts of milk per day, makes most excellent food for pigs; the best effect of the bariey shows itself up to the age of five months, while that of Indian meal continues till the seventh month. After this age a better result is obtained by the use of potatoes with the grain and milk, therefore they would begin with barley, for which at the sixth month they would substitute Indian meal, and at the eighth month would add potatoes. All careful experiments with Indian meal, therefore, go to confirm the general opinion of farmers that it is a valuable part of the ration for pigs; they show that there is economy in using the cob with the grain, and further, that it is poor economy to feed Indian meal alone. And it is quite likely that further experiments with unground grain will confirm the single result obtained in Connecticut of smaller returns than with cornand-cob meal.

Important to Every Farmer.

A KEY TO VALUABLE KNOWLEDGE PLACED WITHIN REACH OF ALL. From the American Agriculturist for April.

All the talk about "Progressive Farming," "Improved Agriculture," "Science Applied to Farming," has two objects; the increase of the farmer's knowledge and of his crops. If a farmer must invest \$19 to get \$20 of increase from a field, it is poor science, and poor farming; but if by investing \$5 on a field the increased crops brings him \$20.00, then "Science Applied to Farming" pays, and it pays him to know the reason With why. There are some settled points in agriculture. Among these are: 1. and Western meal, we may remind All soils, excepting of course the our readers of the fact recently set forth in *The Tribune* that so far as chemical composition goes there is 2. The larger the crop upon an acre, practically no difference between the cheaper per bushel, ton, etc., Eastern and Western corn; and if should that crop be raised. 3. In Eastern meal is found in practice to our ordinary farming no farmer be so much better than Western it makes all the manure that he could must be simply because it is cleaner. In these experiments Mr. Sanborn The main value of manure (stable or allowed, on the basis of results of barn yard) depends upon certain conprevious experiments, one pound of stituents, and these may be had in the increase in the first period for other forms; in artificial or chemical every twelve quarts of milk, and for fertilizers. 5. All soils do not alike

> will pay the farmer to buy the fertilizers his soil needs, it is a waste of money to buy and apply to his soil, constituents of which it already has enough. The question will naturally -how can we find out what the soil needs? It is to help every farmer to answer these questions: "What does my soil need?" "What fertilizer can I buy that will pay a profit in crops?" that the American Agriculturist experiments were instituted. These experiments were begun in 1878, and were continued last year. Several results were given last month, and this month we present on page 136, in a tabulated form, any array of facts that will convince the most sceptical that the right fertilizers in the right place will pay. And not only pay, but the profit on the investment is often such as to help answer the vexed question:
> "Will Farming Pay?" These results were obtained by just such men as you, "Farmer A," or you, "Farmer B," on just such farms as yours, and by just such means as are within your reach. These men are farmers, like yourselves.

Now there are thousands, yes, tens Agriculturist, who would have the same knowledge of their own fields If these farmers knew that it would pay to buy Potash, or Phosphoric Acid, or Nitrogen, they would buy it, but they cannot afford to run many risks. It is evident that every one of these experimenting farmer now knows better, to a certain extent, just what he wants and does not want to put upon his land this year. Not a farmer who reads this would gladly give \$5 or \$10 to know as to his farm what these people know as to their's. There is no way in which the information can be had so cheaply and so certainly as that by which these farmers acquired it. They asked the soil, and the soil responded. The questions were in the bags of the American Agriculturist Fertilizer Experiments.

COAL ashes are good for cold, hard clay or loam land, and there is no better mulching for young trees and shrubbery for retaining moisture and repelling insects. They benefit the land but are rather drying to light land when mixed in quantities with the soil.

Before the raspberries begin to leave out be sure and clear out the old dead stalks that fruited last year.

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JACOB DENKLE.

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