HARRY FARMER'S

Agriculti3 :

Correspondence of The Progressive Parmer.

XXX.

Does it pay to get improved seed at a high price? In our own experience, we find that the difference is as great as that which some patent medicines make in their advertisements of "before taking and after taking." We find this demonstrated in the Irish potato crop more than you. in anything else. We planted a few nice potatoes which we purchased shows from a country store, marked on the package "Early Rose." Seed came up nicely, and looked one time as if they were going to leave our homegrown potatoes far behind; but the yield now of our old seed is more than double the store seed. A neighbor bought some improved homegrown potatoes from a truck farmer who paid \$5 or \$6 per barrel for the original seed; these promise to outyield any other potatoes ever brought here. Such seed compared with most potatoes sold by merchants would be cheap at \$1 per peck. Let us make some figures and see what the difference on one acre would be

COMMON POTATO	ES.	
	DR.	Cr.
3 bbls country-store po- tatoes @ \$2.50 per bbl Fertilizer		
Total By 25 bbls. merchantable potatoes @ \$2.50 per bbl	\$22.50	\$ 62.50
Net proceeds, not count- ing labor	OES.	\$40.00

IMPROVED POTAT	OES.
3 bbls. improved seed	
@ \$5.00	\$15.00
Fertilizer	
Extra labor and bbls	
	\$34.00
By 60 bbls. merchant-	
able potatoes @ \$2.50	1

Net proceeds, counting \$116.00 part labor Difference in favor of

improved communications. good seed..... The average farmer plants about one-half bushel of potatoes for his table, which is equal to 1-15 of an acre, so his gain would be about

\$5.06: but he would have to pay 50 cents per peck for seed instead of 25 cents. Now, would you think of paying such a high price for seed? Some farmers will go for the lowest priced seed regardless of these fignres; while another will stop and figure a little, then make money to lend to his neighbor who does not count the cost. And in a few years, the thinking farmer will buy the land of the anthinking one and let him go somewhere else and work for some man who will give him just enough to live on while he is able to work and send him to the poor house to die, while his children are made "hewers of wood and bearers of water' for other people. We know this will touch a tender place with some farmers; but if we can help them to improve, we do not care how mad we make them.

the difference is 10 to 1; and yet we to the natural enemies as other means and of helping the cotton growers to and thus reverse the process. But The farmer just such goods as he de- peas planted in rows to permit of tobacco fields the government is dem-

farmer's plan of planting potatoes cast. As soon as the last picking ence in flavors, thus scientifically and sowing early peas to be cut for has been made infested plants should adding to the value which nature hay. The peas will store us a nice be promptly destroyed by plowing has given the plant; it supplements let of nitrogen, which suits Irish po- under. This plan succeeded perfect- nature, and will ultimately give to tatoes. We have some corn planted ly on a Maryland farm, which was the tobacco grower as well as to the the elements of the tobacco plant, on land that was in peas last year, about to be destroyed. The pests tobacco manufacturer assistance and it looks much better than where live during the winter in clover which without science they never has learned from practical experience we had cotton. What a wonderful fields or on vetches, so that it is ad- could have gained. thing the cow pea is! Nitrogen is visable not to plant peas near these. good crop of peas will add 100 pounds ent area in peas each year. to the acre, besides giving you a good crop of hay or grain. We think self on it is best to have some crop growing THE EXTENSION OF CERTAIN CROP California. The government im- learns how to develop and thus to on the land during the winter, as Prof. Massey says, "a nitrogen trap." Green weeds or grass is all right.

HARRY FARMER. Columbus Co., N. C.

NEWS OF THE FARMING WORLD.

Our Washington Correspondent Tells What Progress is Being Made in the Various Sections of the Country. Correspondence of The Progressive Farmer.

The Year Book of the Department of Agriculture is now being distributed—a large handsomely illustrated volume of over 800 pages that should be of interest to the thoughtful readers of The Progressive Farmer. A postal card application to your Congresman will secure a free copy for

FARMING LANDS

pretty much all over the United Department of Agriculture has of ments going on under the care of the States. Some years ago land fell to late years been doing excellent work government. How to secure all the sum go as far as it will. It is far lands and the substitution of agri- rangement of the growths. culture for grazing will soon produce a strong demand. Improved methods have brought into use large areas that were formerly barren. The outlook is accordingly considered very promising. The general situation is such as to indicate a bet-150.00 the feature of farm life that made it vast sum and army of men employed no attempt to save for future use by pounds; potash, 55 pounds; phos-

possible. For the perfect success of wealth and men. the heat of the day, when the ground values are often interfered with the exception. Now science comes the brushing is necessary every seem naturally to belong to the cot- use his different soils, what crops three to seven days until the crop is ton, but the government is finding will flourish best in this or that field, tivator will be killed by the dust diseases. It has found out by long taught him that if his soil was sandy brushing. This method has the ad tical not only in the way of productoristable; or, if he had a black, We have seen oats this year where vantage of not being so destructive tion, but in the way of saving wealth mucky soil, how to mix sand with ir, are often told that there is no dif- that might be employed, the louse understand without much cost to when it became a question of the the mence in seed. Merchants are not being more fragile and delicate than themselves how to protect the great chemical elements of the soil and the blame, for they generally buy for any of its insect enemies. Moreover, cotton crops of the South. In the necessities of different plants for of phosphoric acid, costing at 5 cents correspondence of The Progressive Farmer. frequent cultivation suffer much onstrating how to preserve flavor of We are going to try the Chadbourn less injury than when sown broad the leaf and what makes the differ-

AREAS IN THE UNITED STATES due to experiments inaugurated by years, but the crop of figs constantly itself. Particularly, is it feeling happy and persistently failed, no matter over the success with which tobacco what the attempts to protect them. Wright, N. C. A. and M. College,

success so marked that within a few it was found that where Smyrna figs seasons that State may have become were considered as indigenous there in the country. Tobacco has here- blossom of the fig trees, and it was tofore been generally associated with insisted in those peculiar sections the warmer sections of the country, where the Smyrna fig tree prospered and the most famous brands are that it was this peculiar fertilization that all farm operations should grown in the semi-tropical regions. by the wasp that brought success to But it has also been grown with some the crop. So the Federal Governsuccess as far north as Connecticut, ment while importing fig trees, imthus demonstrating that its success ported the wasps that made them does not depend so much upon the successful, and the next experiment climate as upon the character of the resulted in raising some fifteen or soil. There is a certain element sixteen tons of perfect Smyrna figs. Information received in this city which gives the weed its richness and flavor, just as other plants de- for the exercise of skill and scientific A GENERAL INCREASE IN VALUE OF pend for their success upon peculiari- training, and I am sure that the ties of their nutritive mediums. The South is interested in the developa low valuation, farms with good in ascertaining the precise elements wood that is needed for the various buildings selling for less than the which most surely favor individual purposes and necessities without debuildings cost. But the return of growths. There was a substantial stroying forests is a very grave quesbusiness activity and good prices has reason for the project, negatived by tion. We have all seen here, and in greatly altered the situation. Under the last Congress, to map the soils the North and in the West, great such c'roumstances land was bound of the United States, though it re- forests actually slaughtered for the to improve in price, and it has done mains a question whether the imme- purpose of securing small results. so. In the West there has been a diate benefits to be derived would Now with the application of skill decided advance in farming lands. justify the enormous expense in and science this slaughtering of the tubers, as the case may be, have to Ranch lands in parts of Kansas, Ne- volved. There is no forecasting the trees can be avoided and yet the suffer starvation. More than this, a braska and the Dakotas have ad- changes which may be caused by products secured. A great paper half crop costs quite as much in vanced 20 per cent. over the prices this development, persistently pur- trust, or, as it should be called, a rent, taxes, interest, plowing, seed that prevailed three years ago. sued, both in the inclusion in the great combination of paper interests, and many other things, as a full Large bodies of land are being taken | American growths of plants not now | has recently purchased thousands of | crop. up by syndicates in the belief that successfully grown here and in a acres of spruce lands in the State of Of course, farm yard manures and the rapid settlement of the Indian more economical and productive ar- Maine, but instead of going over the roughage of all sorts must be used

> A. B. MARRIOTT. Washington, D. C.

HOW THE SCIENTIST HELPS THE FAR-

ter day for land values all over the expends nearly ten millions of dol- size to be cut, shall first be used, and toes. The cover crop in this case country. In Maryland and Virginia, lars annually and employs nearly the others allows allowed to grow crimson clover, is sown in the corn for example, and much more in Dela- five thousand persons, every dollar until they have reached maturity. at last working, early in August. It ware. Pennsylvania, New Jersey and of which might remain unexpended Thus while securing a sufficient sup- is supposed that the corn crop has New York, there is a tendency of the and every person unemployed with ply for the manufacture of pulp, the received heavy manuring in roughwealth of the cities to spread to the out impairing one jot or one tittle company is constantly increasing its age or farm yard manure, supplemore attractive country districts. the efficiency of the government as supply from among the smaller trees. mented, as is the best custom, by The electric car and telephone are a legislative power, or as an admin- And I suspect that here in the South, becoming ubiquitious. The dreary istrative force, or as a judicial inter- in the use of Southern pine, there isolation, which was some years ago preter of laws? And what is this has been little or no discrimination, will use actually of nitrogen, 83 odious to young people, is less for? Simply and solely to develop culling the suitable sizes from the phoric acid, 48 pounds. marked in this day of bicycles and the utilities which go to make up rich pine forests. our industry and our commerce. These illustrations might be ex-The Department of Agriculture is What has brought this country to tended as seen in the development of INVESTIGATING THE GREEN PEA LOUSE, the industrial and commercial roads, the propagation of grasses, which last year destroyed about half supremacy it now enjoys but the the composition and use of fertilizers, of the pea crop, and which bade fair utilization of the skill of the world? the introduction of new cropsto be even more destructive this This skill, however, has very largely everything that means the developyear. So far no really effective been imported. We have drawn ment of varied products, and hence quently, for the corn crop mentioned the lower provinces of Asiatic Rusmethod of extermination has been from the schools of the Old World. of wealth. found, though several palliatives We should develop it here by and Perhaps one of the most useful should have been used per acre, to have been successful. It is probable are suggested. The best yet discov- among ourselves and from our own directions in which this science I which was added 250 pounds of that bounties will be paid the cotton ered is to grow the peas in rows suf- brains, and make it a part of the speak of is being utilized for prac- kainit. If the yield falls below 70 planters, in keeping with Hungary's ficiently wide apart as to admit of a home equipment of our varied indus- tical purposes is in the matter of bushels per acre, then we have evi- liberal treatment of the founders of one-horse cultivator between them. try. It should be developed along soil. How much waste there has dence that the supply of plant food factories. More or less success is The lice are brushed from the plants with the development of our inex- been, both of labor and of effort, of was insufficient. The probabilities now attending the culture of cotton with boughs of pine with their leaves haustible natural resources. This time and of money, in trying to proon, and a cultivator then follows the government is trying to do, and duce from a particular soil crops that plied with sufficient plant food for

tion of scientific knowledge to the The Department is felicitating it- products of the soil is found in the attempts to raise Smyrna figs in ported Smyrna fig trees for several is now being raised in Minnesota-a At last, after long and patient study, May 29, 1901.

one of the most important producers | was a little wasp that fertilized the

We may look to forestry as a field forests as the driver of a mowing on long-growing crops, such as corn. machine would run through a wheat This crop covers a long period of field, cutting down everything and growth, and has a powerful root using all sizes of spruce trees for the system. It can use forms of plant manufacture of pulp, the company food which would be quite useless to has set a corps of scientifically trained potatoes or fruit. As an illustration foresters at work, so that the trees of a sale crop, we will take a rota-Do you know that the government that are fit to be cut, that are of a tion of corn, followed by late pota-

down the rows as soon afterward as it is a beneficent employment of could not thrive in it! The wrong its own use, and here is where we crop and the wrong soil for other must commence figuring on the this method it should be practiced in In the cotton districts of the South crops has been the rule rather than is dry and hot, and the repetition of and crops reduced by diseases which in and tells the agriculturist how to ready for picking. Such lice as are out, has found out in a large degree, how to mix his soils. The farmer not buried in the ground by the cul- just how to prevent or cure these had a primitive knowledge which which closes their breathing pores, and patient scientific study what he had better cart upon it a sufficient while a considerable proportion are causes the losses in the cotton crop. quantity of muck, which when destroyed also by the force of the Here is a practical illustration, prac- mixed with the soil, gave something specific chemical elements to secure each \$13.50 (may be supplied as 400 their growth and success, the farmer was at a loss. Now he has learned, or he may learn if he feels so disposed, how to utilize his different knows what is essential. He has learned by practical experience that he may return to the soil some of and thus prevent its exhaustion. He to know something more that he An exceedingly interesting experi- may become familiar with what we farming. All these things mean wealth, prosperity, development, the the best and highest possible use of the gifts of nature; by them man utilize the great attribute which has been given him and which allies him to his Creator .- From the Commence-

ment Address of Hon. Carroll D.

SALE CROPS AND CROP COVERS.

Correspondence of The Progressive Farmer. As the object of farming is to make money, and as money is only made through sale crops, we should never lose sight of the fact the value of the sale crops. There are many sides to this matter, too many for a single article, and we bushels of potatoes \$17.25, or less will confine ourselves here to the consideration of the fertilizing ques- bushel. tion solely.

This fertilizing question, like all other farm [problems, is largely a matter of dollars and cents. Money every pound of the fertilizer applied must be paid out for plant food, and was realized in the crop, which is the main point is to make a given impossible, the cost would have son is, that as a rule the more useless part of a crop, such as leaf, straw, roots, vine, etc., is grown first, and if this exhausts the soil of valuable plant food the seeds or

250 pounds of kainit per acre.

A corn crop of 70 bushels per acre

As experimental work has shown, the potash and phosphoric acid of this roughage is not readily available, also that it is impossible to realize more than about two-thirds economy of the potato crop to follow next year.

The cover crop being a legume will supply its own nitrogen, if given plenty of potash. From official experments we learn that a good crop of crimson clover contains, nitrogen, 130 pounds; potash, 140 pounds phosphoric acid, 40 pounds. The potash and phosphoric acid must be supplied to the cover crop at seeding of same, as only two-thirds of the turns, the potash and phosphoric ground is mulched. acid necessary in the application is 210 pounds of potash and 60 pounds following potato crop.

phosphoric acid, 42 pounds.

tilizers, nitrogen and nearly enough profits.

potash and phosphoric acid. An application of 200 pounds acid phosphate and 100 pounds sulphate of potash at planting will complete the full needs of the crop, at a cost of \$2.25 for the potash and \$1.50 for the acid phosphate, in round figures in be aimed to enlarge or increase all \$3.75, add to this the \$13.50 fertilizer cost of the cover crop and we have the total fertilizer cost of 400

> Had the cover crop not been used. and fertilizers used directly for the potato crop and even supposing

> than four and one-third cents per

been: more economical in practical farm Nitrogen, 92 lbs. @ 12c....\$11.04 work to fully fertilize one acre than Potash, 158 lbs. @ 5c..... 7.90 to half fertilize two acres. The rea- Phos. acid, 42 lbs. @ 5c..... 2.10

> Or \$3.80 per acre more than the actual cost. As a matter of fact, the cost instead of being \$21.04 would have been nearer \$31.04, as not more than two-thirds of a fertilizer application can be expected to be realized in crops.

GEO. K. WILSON.

\$21.04

The World's Work rightly considers the subject "good roads" of great importance. From a recent issue we quote:

"The subject, 'Good Roads' is more important than it is interesting to reporters and essayists. It is more important, in fact, than most subjects, religious or secular, that conventions of men and women meet to discuss; for a man that in any way helps to build a good road where a bad one ran, does a greater service to his kind, and builds a more lasting monument than the man who writes an historical novel, for instance, or sends a missionary to China, for a good road will outlast a bad book and give to Christian character serenity and continuity."

COTTON CULTURE IN HUNGARY

Consul Mahin, of Reichenberg, un der date of April 22, 1901, reports: It is intended this year to essay the cultivation of the cotton plant in Hungary. It is said that it will ripen of the fertilizer applied whether in in the southern part of that Kingroughage or in chemicals. Conse- dom; the efforts to grow cotton in about 13 sons of farm yard manure | sia, in the same latitude as Hungary, are that the corn crop must be sup- in Spain, southern Italy, Macedonia. and Malta.

> Cattle can be raised better by the small farmer, as he can give more of his time to it, than can the planter. Wherever we have grass I am satisfied we can raise beef cheaper than it can be raised anywhere else. The first and main point is to secure the beef type of cattle; we cannot expect to succeed with our native stock .-Col. F. L. Maxwell, Madison Parish,

Raspberries and blackberries require a well drained soil highly ferfertilizer is found in actual crop re- tilized. They do best when the

PROFIT IN STRAWBERRIES.

There is really no farm crop that pounds acid phosphate and 400 can be made more productive than pounds murate of potash, or 1,600 the strawberry when the market pounds kainit). This seems a heavy facilities are good; but in order to soils by planting different seeds. He application, but it must be remem- do this there must be a thorough unbered, we are really fertilizing the derstanding of the nature of the plants and their needs. I do not-In the spring, late, the cover crop know of any other crop that shows is turned under, soil thoroughly a wider variation in profits and promellowed, and the potatoes planted. ductivity than the strawberry. The We have available, as actual plant returns from an acre run all the food for the potatoes 130 pounds way from fifty and sixty dollars to worth about 15 cents per pound; a It is also advisable to plant a differ ment in this matter of the applica know in these days as intensive nitrogen, 140 pounds potash and 40 several hundred, with here and pounds phosphoric acid, which have there even greater figures than these cost \$13.50. A crop of 400 bushels of reported. I should not advise any potatoes, and this crop should be ob- one to attempt raising strawberries tained, if soil and seed are good, re- for commercial profit who is not quires plant food as follows: Nitro- satisfied to begin moderately and gen, 92 pounds; potash, 158 pounds; gradually learn by experience how to increase the quantity and quality We have ample quantities of fer- of the fruit, and consequently the S. W. CHAMBERS.