Agricus are.

MING WORLD. NEWS OF THE

Our Washington Compondent Tells What Progress is Bein 2 lade in the Various Sections of the C :ry.

Correspondence of The Progressive Farmer. The government now stands ready

to examine, test exhaustively and

report on the ADAPTABILITY FOR ROAD MAKING PUR-

POSES

by any farmer. More, it will test all samples of available materials that he may send, and report which will lished, even in the farming papers. render the best service and will last the longest. As a macadam road and a difference in the choice of materials may make it last anywhere from two to thirty years, the enorselecting the best material-which often costs as little as the poorestis obvious.

The work of testing is carried on in the "road materials" laboratory, presided over by L. W. Page, a Harvard graduate, who last December gave up a seven years connection with the Massachusetts State Road Management to take charge of it Mr. Page had to absolutely create the laboratory; nothing of the kind had ever been done before by the government and there were no machines, no processes, no methods nor tests-nothing, in fact, but the bare rooms. Since then, Mr. Page has designed machines to test the abrasion co-efficients, the cementing valuation and the toughness of the rocks sent him, and is now having constructed a machine to test their hardness, which is the factor of least importance for accurate determination in road building.

Limited appropriation and a limited force still restrict the work of the laboratory, which at present is able to complete about two tests per day, each requiring two to three days to carry out. It is therefore confining its attention to requests sent in from country road builders and letting the immense paving ma. terials' interests go for the present. Later on, it will take up this work. Just now it is not anxious for advertisement, as a very little more work than now reaches it would swamp it altogether. Still, any person or community intending to build a road ought to send to it samples of all material that are available in sufficient quantities, with a request to be informed which is the best for the purpose. By so doing, they may save thousands of dollars in repairs. The Census Office has sent out a

bulletin giving

THE COTTON CROP OF 1900. bulletin on this subject issued by the Census Bureau; the materials for the first were gathered by the enuannual official reports of the cotton do this, their profit is reasonably honey. The average housewife will crop, upon the accuracy of which they can depend. From hundreds of them the Census Office has received flattering letters in regard to its first report, and the great advantages which must accrue from a regular continuance of the collection of these statistics in this manner. The crop of 1900 is found to be 10,-123,027 bales of the average weight readily bring \$125 an acre—the of 500 pounds, or to 5,061,512,294 pounds, an increase of 840,174 com-

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the events resulting therefrom, caused the

INTERNATIONAL GOOD ROADS CONGRESS AT BUFFALO

to pass almost unnoticed, even the crowded out of the papers by the ing the size and enthusiasm of the meeting, were worthy of a better fate. The following extracts from them were obtained from Martin of any material that may be sent it Dodge, Chief of the Office of Road Inquiries of the Agricultural Depart frere." ment. They have never been pub-

Briefly, the resolutions are-that the need for investigation and educacosts from \$8,000 to \$10,000 per mile, | tion by the government in regard to roads is more pressing now than ever; that the public roads office should be enlarged to a bureau and mous value to the tax payers of its appropriation increased to \$150,- for any farmer to grow, although 000 a year; that the work of the Na- the market is flooded with plenty of places. tional Good Roads Association is different kinds and an abundance of heartily commended; that State as- literature concerning each. The fact sociations should be organized in is that each farmer must find out each State and Territory; that thanks | through experience just what variare extended to the roads which or- ety will do the best. After all one ganized and ran the good roads trains must cling to old standard varieties soil better, use more fertilizer to the and the manufacturers that equipped until something better is found. It acre, put the wheat in the ground them; that the policy of the post- would be folly indeed for any farmer with more care, use nothing but firstoffice in requiring good roads as a to purchase seed of a new variety class seed, and sow it on time, we pea that is as good for this purpose The above 125 tons when ready for pre-requisite to rural free delivery and plant acres of it before he had will make a better profit on our as the cow pea, for there is none that use will not at most have cost over is commended; that the roads in the demonstrated to his own satisfaction wheat and do less work in sowing has so large vine and root as the cow \$300, for material and labor and will Yellowstone Park should be so im- its advantages. Take the concensus and harvesting. proved as to furnish an object lesson of opinion of farmers in regard to Now, we wish first to notice how to the ground. I don't think there and if the system is continued its to the country. Three other reso- the half dozen leading varieties of we should lutions seem worth printing in full. wheat, and it will be found that no PREPARE OUR GROUND BEFORE SOWING They are:

to their conditions.

taxes in cash instead of in labor."

"There is LOTS OF MONEY IN FARMING," compiled from statistics furnished for years. Some of them had been of seed wheat on the recommenda- one year and not have anything done his hand and harrowed it in. On the shock and dry it sufficiently for the by the ginners. This is the second making fair profits at growing to- tion of others is in a fair way to to it at all. Then the second year go two acres he made eighteen bushels shredder, when it can be shredded comparatively few. Last year the be successful, but the chances are plow and let it down as deep as it taken in one more acre and he used This fed with some peas and a good Department went up there and even that he will fail. Because will go if the land is light, mixed 200 pounds of 13 per cent. phosphate application of cotton seed meal merators; those for the present one showed them how to raise Sumatra somebody in an adjoining State hap sand and clay, but if it is all clay let were gathered through the mails tobacco under cover at a profit of pens to raise an immense crop with your turning plow down as far as it Every one of the 29,000 ginning \$1,000 an acre. Now, some of them a certain variety it does not follow will go and let a subsoiler go right but a little increase over what he is a most rarely good sheep feed. establishments in the United States have invested about \$20,000 in fol- that the same can be accomplished behind it. Then leave the ground has been heard from, either directly lowing the Department's example elsewhere. There are soil, the climate, alone until about the 10th of June, or indirectly. The Census Office under direction of a tobacco expert and many other conditions to con and go and cross plow your land with now possesses a complete list of to whom the government pays \$4,000 sider. Experience in farming makes a shovel plow. Then sow down with these, with the capacity of each as a year. They will get all their in men proceed more and more care about 11/2 or 2 bushels of peas to the shown by the quantities of cotton vestment back this summer and will fully each year in adopting new acre and harrow them in, and leave handled; and it is able to keep this make a clear profit of \$1,000 an acre methods and varieties of plants. them alone until you wish to cut them list in perfect condition by the elimi- besides. Those who hadn't the There is too much information flying for hay. Then go again with your nation of abandoned establishments money to go into this-it cost about around loosely. It is wise to test turning plow and turn again just as and the addition of new ginneries. \$400 an acre to start-or who were any new recipe before using it whole The success of the inquiry is due not sufficiently up to date to do so, sale. Then we know of what we or disc harrow and harrow it thormainly to the direct appeal made to will make only a small profit. The are speaking and doing, and the oughly just before you get ready to the ginners by the Census Office, for moral is that farmers should find science becomes an exact one. individual co operation in this work. out what crops are best for their soil They have been made to see their and should use modern methods in own interests will be promoted by raising and rotating them. If they

> lands in southern Maryland which about the two worst places possible have been to a large extent aban- Honey is kept very different from doned," continued Prof. Whitney. fruit. It is thoroughly ripe when pared it the way above described and want I tie the heads in bunches of quire skilful handling and manage-"These lands at the best sell, when taken from the hive and will, there- it yielded that crop 75 bushels on under cultivation, at \$10 an acre, yet fore not ferment unless placed in a the five acres, or about 15 bushels they are quite as good as similar cool, moist place. We learn from per acre. This was a very profitable them in a secure place where I leave fed in the way that is so extremely lands in Lancaster Co., Pa., that

DIFFERENCE LYING SOLELY IN THE mercial bales over the crop of 1899. The Pennsylvania farmer works his perfectly dry. Even a temperature And as I failed to tell how we put is all shelled off. In this way I have

-result, prosperity. The southern Maryland farmer with lands equally rich, rents his farm, raises only tobacco, wheat and corn; sells his tobacco in competition with Ohio toresolutions adopted thereat being bacco and without special attention sells his wheat in competition with press of other matter. Yet some of the great Western farms-and buys these were important and, consider- flour sent to him from a distance; and feeds his corn to his work stock -result, poverty, and in many cases abandonment. Yet there is no reason at all why he shouldn't be as prosperous as his Pennsylvania con-

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

> > VARIETIES OF WHEAT.

Correspondence of The Progressive Farmer. It is not so easy a matter to deter.

mine just the best variety of wheat definite decision is reached. Advo- wheat. If we wish to sow wheat for "Resolved, That enterprise has cates of each variety must modify a profit, we should never sow it after demonstrated that the greatest prog- his opinions and conclusions so that corn, cotton, or cane, because if the ress for good roads has been made in | no definite news is conveyed. Even | soil we sow in wheat is to yield a the States where the system of State | the experiment stations cannot say profitable crop it must receive a good co-operation has prevailed under the conclusively that this or that variety supply of ammonia which is caught direction and control of a State High- will be the best on farms of such a from the air by certain plants and way Commission or Engineering De- section. Now the fact is that some conveyed to the roots and deposited partment. Therefore, we recom- of the best varieties of wheat used in the ground that the next crop may mend this plan to the several States to-day are old standard ones, and get the benefit. as far as the same may be applicable | they have not run out except on cer-"2. That this Congress endorses of wheat need not run out provided but draw away what there may be the use of convict labor where prac proper culture and selection are in it. There is but one time in the bring a profitable crop of a grain that seed and two thirds on each side and ticable, in the work on public roads given. There is consequently no year when the ammonia is caught requires as much ammonia or alkali about six inches distant from the or in the preparation of materials need to purchase new and untried and deposited in the ground and that as wheat does. therefor, thereby taking the convicts | varieties, although it is always well is during the summer or growing out of competition with honest labor. to set aside an acre of ground for ex- season. And wheat is sown just as who have land that ought to bring being applied to corn, potatoes, gar-"3. That this Congress heartily apperimental work. On this land plant this season closes and is cut off just from eighteen to twenty bushels per den and such other things as require proves of the use of the wide tire on as many new varieties as necessary, as it begins, therefore you plainly all public roads and the substitution keeping strict account of the amount see that if we sow down our wheat sow it and fertilize it well, and make is, the other half of the old 160 acre of the payment of the usual road of seed used, and the amount of the after a crop that has drawn away all about eight to ten bushels to the cotton field, can likely best be used yield. By a little comparison in this the ammonia, no matter how we may said Prof. Myron Whitney, Chief of Even when this has been shown by bring a profitable yield should not be years. the Division of soils of the Agricul- one year's culture it is well to pro- sown after wheat, unless we have a tural Department, "if the farmers coed slowly and merely plant a few good coat of peas on the ground after will only take pains to be up to date acres with the seeds the following the wheat was taken off, and yet not in their management. For instance, year. Then if the test is successful every time will this bring a profittake the growers of Sumatra tobacco its culture can be extended. In this able yield. in the Connecticut valley. Like all way one keeps abreast of the times, Now that we may get a profitable it well in the winter and sowed peas for fodder corn and immediately sow the farmers up there, they have been and at the same time runs no risk. yield off our wheat sown: The first on it and then turned again in the or drill in cow peas. Having out the living on the ragged edge of failure The farmer who buys new varieties thing, our ground needs to have rested bacco in the open, but these were meet with a great setback. He may in the winter and take a turning of wheat and the next year he had and housed in loft of sheep barn.

C. T. HILL.

Very few people know how to keep | wheat. generally put it in the cellar or into "For another instance, take the the refrigerator for safe keeping- It contained five acres of land and strong stalk I cut the head off it, the most profitable way to dispose kitchen cupboard is a good place for natural growth of weeds and sowed hand one at a time and strike them

PREPARING LAND FOR WHEAT GROW-ING.

A McDowell County Farmer Tells What Methods He Has Found Most Profitable.

Correspondence of The Progressive Farmer. Wheat sowing time has now come again, and the farmers are getting ready to sow their wheat. Some are buying their fertilizers, drills, and harrows with which to put in their wheat, while some are going to sow it the old way-just simply sow it down with the hands and plow it in with a shovel plow.

Now, every energetic man who sows wheat this fall wants to realize just as large profit as he possibly can. In this article we shall attempt to give some profitable ideas from what knowledge we have gained by experience and by observation while | 20 bushels to the five acres, not onetraveling through the State from Tennessee to the coast, and from South Carolina to Virginia in several

We find that a majority of the farmers of North Carolina sow too much wheat and do not prepare the soil well enough before they sow. If we will sow fewer acres, prepare the

Neither corn, cotton, nor cane tain soils and regions. A fine variety store any ammonia in the ground, way it is easy to ascertain whether fertilize, we need not expect a profit-

deep as you can. Then take a shovel sow your wheat. And when you have done this you have your ground ready to bring a profitable yield of

of land that lay on a south hill side. about four years before. We pre-The death of President McKinley own land; he rotates his crops; he of 100 degrees is not too hot for the wheat in before, I will tell now. seed that is sure to grow.—W. O. and the space allotted thereto and to raises practically everything he eats honey.—F. G. Herman, New Jersey. We drilled it in with our old-fash- Denny, Piasa, Ill.

ioned hoe drill and put 200 pounds of 13 per cent. acid phosphate to the acre. The second year we did the same and the five acres brought about 40 bushels to the five acres, or eight bushels to the acre, just a little over half the yield of the year before. Just as soon as this crop was off we sowed the land down in peas and turned them under at sowing time and drilled the wheat in with a Buckeye disc drill, putting the same kind and same amount of fertilizer to the acre, and it brought between 45 and 50 bushels to the five acres, about 91/2 to the acre; but a slight increase over the year before. That fall we turned under the weeds again and sowed the wheat down in like manner as before, and it brought about it after it had rested.

From the above you see the first thing essential to bring a profitable crop of wheat is to have rested land. One year is enough rest then grow a crop of something that will deposit in the ground a good amount of ammonia.

good coat of cow peas. There is no extra labor and expense.

profitable crop of wheat, don't sow it fertilizers. on a piece of land you have run in It is intended that this fertilizer come tough or cloddy, and there is acre. If possible, it should be ap-

acre, and they take lots of pains to it. The 80-acres not in cotton, that acre, and they will say there is no by raising plenty of corn as an all pay in fertilizing; and they have not round feed for the sheep, also fera new variety is superior to the old. able yield of wheat. And wheat to perhaps let their lands rest in twenty tilized.

made by sowing with his hands. The

one year and sowing in peas one year stall-fed weathers. and then plow as I suggested, I think When ewes and weathers of the you will be pleased with the results. If I write again, I will speak on how to sow wheat.

ZEB. B. PYATT. McDowell Co., N. C.

Some few years ago we took a lot still standing in the field, I go out lambs" they can be made to being among it and when I find a nice, \$10 to \$12. The latter is generally had lain out and was pastured for leaving about a foot of the stalk with of them if expressage is not too the head. When I have out all I much. Of course such prices reabout a dozen each, and hang them up to dry. When well dried I put the bees that it should be kept dry yield for the land. The fall follow- them till planting time the following and warm, as they keep it. In the ing this we turned under just the spring. I then take the heads in my it, or any room where salt will keep it down again just as we did before. on the inside of a barrel until the seed

Live Stock.

SHEEP IN THE SOUTH.

XVIII.

one Hundred and Twenty-Five Tons of Dry Fertiliser Worth \$1500-Machine Pulverization to Make it More Seluble-One Ton to the Acre on 80 Acres of Cotton-Fodder Corn and Peas on the Other 80 Fertilized Also-The Eighty-Acre Pieces Alternately Used for Cotton-Late Peas or Beans Plowed Under Every Year.

Correspondence of The Progressive Farmer. If the 300 sheep have been judiciously housed and all the available manure gathered and composted as above noted, as a result of a year's work there should not be less than 125 tons of dry fertilizer ready for use and so well mixed and chopped up that it may be applied with the seed of cotton, corn or small grain third it brought the year we sowed by some of the fertilizer machines now in use.

I never tried it, but believe that after the last mixing of the manure, if the whole mass should be run through an old fashioned ("bunty") threshing machine, or a similar machine process, it would promote its solubility as plant food and facilitate From the experience I have had, its application to the land, to an exthere is nothing so good for this as a tent that would surely pay for the

pea. Some say the vine is no good | be worth \$1,000 the year it is applied, is much good in turning under the effects will be worth half as much vine, but the greater top the vine more in following years. An amount has the more ammonia it will catch of equal value purchased from refrom the air, and the more root the liable merchants would cost \$12 a vine has the more ammonia it can ton or \$1,500 delivered on the plantareceive from the vine and deposit in tion. These valuations are given from the standpoint of prices asked Farmers, if you expect to make a and paid at this time for high grade

wheat and corn one after the other | shall be in such shape that it may be for years, for there has no ammonia applied in the rows when planting entered the ground until it has be- the 80 acres in cotton, one ton to the not life enough in the ground to plied one-third in the row with the rows, completely covering it all over You find men all over the country with dirt. The other 40 or 50 tons

If corn is raised the fodder should I know a man who bought a run. be shredded and fed. A better feed down farm and moved on it a few and more profitable crop is to drill it years ago and there was some very in thick, averaging a stalk every good wheat land on it that had rested four inches and cut it in the milky for about three years, and he turned or good roasting ear or glazed state fall and sowed two acres down with fodder corn with a corn harvester, to the acre and drilled it well, and on | thrown on it in the troughs, as elsethe three acres he made 30 bushels- where recommended for sheep barn,

This mixture carefully cured and trouble was his land needed to rest made more or less strong with peas. again and get in shape to receive the cotton seed meal, and then steamed ammonia from the peas and weeds, fresh every day, cannot be excelled If you will try resting your land for sheep, even for the most carefully

"third cross," such as I describe in Chapter XVI., are well fed on such food, the ewes may average 100 per cent. increase of lambs, and old weathers may be brought to average 200 pounds gross and be sold in the best markets each spring at 6 cents per pound, \$12 per head gross in full When the sorghum is ripe and fleece; or if sold young as "spring

> It is the manure from such sheep valuable.

> The cow peas on the 80 acres above referred to may be partially ripened so as to get part of the peas for the sheep if needed and then, if possible before dead ripe, plow under.

> > [CONTINUED ON PAGE 8]