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UNITED STATES.

The improvement of our highways

waiting for good weather and dry roads.

the land, they could carry their prod-

It takes a much longer time and re-

seriously injures the farmer's equip-

ment. Improved highways would pre-

The experience of other sections rec-

mmends the construction of two reads

ide by side, one of earth and the other

of stone or gravel. Each road would prolong the life of the other. In dry

weather the dirt road would be used, because it would be easier for the feet

of the draft animals. In wet spells the

one good highway would always be

available. In fair weather the farmers

could take their choice of a stone of

earth road. The use of wide tires would

the latter.

GRAHAM, N.C., THURSDAY, SEPTEMBER 29, 1898.

NO. 34.

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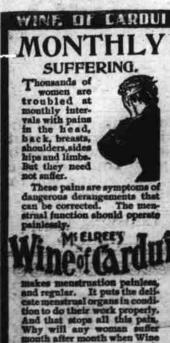
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GRAHAM, N. C.



GOOD ROADS LESSON. LOSS BY BAD ROADS. GOVERNMENT SAMPLE OF HIGHWAY

VOL. XXIV.

N. V.-Most of the Work Done by Machines-Varieties of Hock Used-Prepar ing Foundation, Rolling and Sprinkling

CONSTRUCTION

The road inquiry division of the department of agriculture was organized under the direction of General Roy Stone and has continued the educational work on the subject of roads by means of bulletins issued from time to time and by the construction of sample roads in different parts of the United States. The first of these sample roads was completed at New Brunswick, N. J., last June. The second was started at Geneva, N. Y., and is by far the longest yet built. Others are planned, in course of construction or completed at Evansville, Ind ; Lynchburg, Va.; Il-ion, N. Y.; Kingston, R. I.; Orono, Mo.; Warren, Pa., and Columbus, O.

The sample road at Geneva was plan-ned last spring. The original estimate of its cost was \$9,000, of which the village contributed \$3,000, the township \$3,000 and residents of Castle street, in which the road is laid, \$3,000. The government furnished free of charge the roadbuilding plant, consisting of a rock crusher of a capacity of 150 tons of broken rock in a ten hour day, one set of screens, one road grader, two distributing carts and one 20 ton road roller. The government also furnished the special agent in charge, while the village and town furnished material and labor.

The sample road as constructed is about 156 miles in length. For the first nalf mile the roadway is 18 feet wide and 8 inches deep, the 8 inches consist-ing of a foundation of 5 inches of broken field stone with a surfacing of 3 inches of broken trap rock. For the next three quarters of a mile the roadway is 14 feet wide and 8 inches deep, while the flual quarter of a mile is 8 feet wide and 6 inches deep. The first portion is a sample of a macadamized village street, the second is a first class country road for general use in thickly in-habited sections, while the third is a very cheap but serviceable road for more thinly inhabited regions. None of these is suitable for the heavy trucking of cities. On each side of these sample sections is an ordinary dirt road thor-oughly rolled, intended for light driving in dry weather.

The road is machine built through-

out, comparatively little human labor being used. The most important machine is the reller, which may be used either as a road roller or as a perambulating pickax. When it is to be put to the latter use, its two rear wheels, each 6 feet in diameter and 18 inches wide, are fitted with 56 case hardened steel teeth 5 inches in length. The wheels make a revolution every ten seconds, and in a ten hour day do an amount of work equivalent to that performed by 500 men with picks. After the old road had been torn up by this machine the loosened material was scraped to one side by the grader. When a sufficient depth had been reached, the new surface was thoroughly rolled in order to form the base of the new road. On this base was then laid the five inch foundation course of common field rock. The foundation rock is of all grades of hardness and friability, and includes shales standstones, limestones, quartzites and granites. It was broken to a size about 1 1/2 inches square. The foundation was sprinkled and thoroughly rolled, the

or dust forming. The trap rock was

crushed to the proper size at the quar-ries and hauled to Geneva in canal-

boats. The size is somewhat smaller than that used for the foundation.

Above the surfacing was added a very

thin layer of trap rock dust, to act as a

cutting action of the stone. The value

time to time by means of a sprinkling cart. After being laid the dust layer was heavily sprinkled and rolled for

several days. The constant rolling forces the rocks into close contact and

holds them there. The sprinkling in-

nto dust. When this dust contains

of rock together.

To increase the educational value of

the work, two days of each week Wednesday and Thursday, were designated as visiting days, when special at

special agent in charge, was presen and explained in detail the construction

of good roads. Many persons, road en-gineers, roadbutlders and others, avail-ed themselves of this opportunity and came often from distant parts of the sountry to study the construction of the

The new constitution of Louisiana al-lows the police juries "to set aside at least I mill per annum of the taxes levied by them, and to impose a per capita tax of not more than \$1 per an-num upon each ablebodied male imhab-trant and to levy an annual license of

essen the cost and frequency of repairs. It is hardly worth while to build a few good highways. Systems of roads should be improved at the same time machine passing over it a score of times. The surfacing course of broken trap rock was then laid, thoroughly sprin-A draft wagon, light enough to be used on muddy roads, could not avail itself of the full advantage of a rock road. The wagons used on hard roads weigh When the road engineers first visited from 2.500 to 3,000 pounds, and they Geneva, they said that a large propor-tion of the ordinary rocks of the field carry loads of three or four tons. Such ons could not be employed on soft roads. They would sink into the mud were suitable for the surface layer of the road. Closer examination of the and require as much force to move them rock piles showed that it would require as it would to haul their heaviest an expert sorter to select the material freight on a gravel road. Common and improved roads cannot be profitably was decided as a matter of economy to combined. What is fit for the one is not use trap rock from the Hudson highlands for all the surfacing. Trap rock is and tributary highways of any district said to be superior to most other rocks should all be reconstructed at once. for surfacing because it is not friable

It is estimated that the average cost of good roads in the United States would be from \$1,000 to \$1,200 a mile. This, of course, implies higher taxes, but the in creased gains of agriculture will reconden. The economy of time and labor, the conveyance of heavier loads, the enshion, protecting the underlying stone from the action of wheeled vehisaving of perishable fruits, the market of products when they will bring highest prices and the profitable cles and the feet of animals from the use of rainy days are important advantages. To the gains derived from these of this dust filling is increased by the small quantity of moisture added from sources must be added the enhanced valnes of real estate. The average approci ation of the lands through which good coads run is estimated at \$0 an acre There is one instance of an exceptions rise of \$85 per acre in the value of farm land. As all the people of the United States participate in the benefits of good roads, they should all bear their share creases the ease with which the angu-iar pieces slip past each other. They grind together and form a nearly per-fect union when the 20 ton roller moves of the cost of construction and mainte nance. As there is a community of in over them. When these angular pieces are rubbed together in this way, a small portion of the surface of each is ground erests there should be an equality of

ceply interested in good roads because little clay, it becomes valuable as a co-ment or bond to hold the larger pieces it would frequently happen that with out them the supplies with which country customers pay their bills could not be brought to market nor could the quickly or cheaply transported to the points of consumption. But with good reads producers and consumers could nation was given to every one interest-ed in road construction. On the days mentioned either General Roy Stone, chief of the division, or E. G. Harrison, carry on their exchanges irrespective of tad weather.—Professor S. Waterhouse.

The practice of attempting to affect a "binding" of the metal parts, or small stone, by putting in clay, loam or sand it based upon the grossest iguerance, as is based upon the grossest ignorance, as it fails even under incessant rolling with the heaviest steam roller to "bind" longer than the first minstorm or first flooding from a lasy sprinkler coming along to develop its sponge power, but it actually hastens the process of ro-moving the screenings and the dust caused by the grinding action of wheels and hoofs. "Binding" is absolutely pre-

When the farmers can be brought to see that good reads constructed with state aid mean money in their pockets, as has been demonstrated in New Jersey, good roads will become as common as bad roads are now.—Philadelphia Press.

BEGGAR WEED.

Is Said to Excel Cowpeas Both as Hay Plant and a Soil Renovator. FELT BY EVERY INDUSTRY IN THE This annual, which has recently come into cultivation, is a native of Florida and the West Indies. It is only adapted to the warmest parts of the southern states, especially to Florida and the country bordering on the gulf. and Farmer Have an Interest In This Florida beggar weed is closely related The economic importance of good to the beggar weeds, or beggar's lice, of the eastern woodlands, but in its uproads has been demonstrated by star-tling statistics. It has been shown that embles the prairie beggar weeds. the traction force required to move 2,000 pounds at a speed of three miles thrives on the lighter sandy soils and an hour over a level road of iron, asrich clays, growing from six to ten feet phalt, loose gravel and soft sand is rehigh, producing a great bulk of hay or of green manure. Wherever the ground spectively 8, 17, 820 and 448 pounds. From this statement it may easily be inferred how costly bad roads are. Iron has once been seeded beggar weed grows spontaneously during the month of June. In cornfields it comes up after and asphalt are mentioned for the sake of comparison. They could not, of course, be used as the constructive mathe last cultivation. The seeds will not germinate until the ground is warm, so that this forage plant is only adapted terials of country roads. But the difference between poor and good roads is so great that the team which can only to regions where there is a long summer season. It grows best in well cultivated lands, making as rank a growth draw one ton on the former will, ac-cording to the character of the improveas the sunflowers along the creek bot-toms in Kansas and Nebraska. ment, haul from three to five tons on

In from three to four months from germination the plant has ripened seed would be variously profitable. Now farmers lose many days in the year and may be plowed under, adding a large amount of organic matter to the soil and at the same time reseeding the But the support of men and animals is field. Where beggar weed is not sponas expensive when they are idle as taneous the seed should be sown broadwhen they are engaged in lucrative work. With good roads the farmers need never lose any time. In wet cast at the rate of 12 to 18 pounds per acre and covered lightly. A thick seeding is better for hay than a thin one, as weather, when they could not work on in the latter case the stems ucts to market. No rains would compel them to spend valuable time in idlecoarse, woody and indigestible. According to analyses of beggar weed made at the Florida experiment station,

ness. Independent of climate, they 100 pounds of hay consisting of the up-per portion of the plant, mainly leaves and branches, contained, before maturicould deliver their produce whenever it suited their convenience or enabled them to secure higher prices. Foul and ty, 19.42 pounds of crude protein and 85 pounds of carbohydrates, and when fair weather would be equally profitseed was ripening, 15.75 pounds of The utilization of stormy days would prevent losses from idleness and enable farmers to avail themselves of the highcrude protein and 69.15 pounds of carbobydrates. Analyses at the department of agriculture gave as high as 21 per est rates which the market ever offers. cent of crude protein before flowering Perishable fruits cannot await favorable Digestion experiments have not been conditions of weather or of roads. If made, but as the bay is readily eaten they are not sold at maturity, they ofby horses, mules and cattle, and seems ten become a total loss. Farmers, diseartened by such losses, are unwilling to be relished by them it is undoubted ly as digestible as red clover. This plant, like other legumes, takes a part of its supply of nitrogen from the air raise crops which, with better means of transportation, would be very remunerative. Therefore the occasional of its supply of nitrogen from the air inability of cultivators to market their and does not depend wholly on the nitrates in the soil. It produces a greater trates in the soil. It produces a greater trates in the soil of deprives them of a fruitful source of bulk of feed than the cowpen and grows without much care on cultivated lands, but rapidly degenerates into an insigquires a far greater tractive force to haul light loads over had roads than it cropped.

cropped.

The department of agriculture, an would to draw heavy loads over good thority for the facts here given, pro-nounces beggar weed one of the most roads. The unnecessary strains to which bad roads subject teams, harnesses and valuable forage plants of subtropical wagons are very wearing. Rough usage regions on rich lands, excelling cowpeas both as a bay plant and soil renovator. Yields of from four to six tons of hay vent avoidable depreciation of property and increase the gains of producers. per acre are not unusual.

Linseed meal is the ground residue emaining from the flaxseed after the oil has been removed. The larger part of the flaxseed used in this country is grown in North and South Dakota and in Minnesota. The seeds of the flax use of the rock road would prevent the injuries which travel would then inflict upon the dirt road. In the longest rains known as linseed oil, and after being refined is used in the preparation of paints varnishes, printers' ink or in the manufacture of soap. The pressed cake remaining is dried, cracked and ground and furnishes the old process

The Velvet Bean A cut of the velvet bean is here reproduced from The Rural New Yorker. is from a photograph sent by leorgia correspondent. The bean is described as a strong vigorous grower, the blossoms attractive to the eye, but of an odor objectionable to most people. According to seedsmen and others, a large acreage has been planted in Flor-

VELVET BEAR PLOWER. ids and the gulf states, and small plantings for experiment at the north have been numerous. The bean is described in a bulletin of the Florida station as follows: "The pods are very thick and loathery, do not crack open when ripe and are difficult to open by hand. The pods contain from three to five large, plump, fine looking beans, irregularly colored with purplish and brownish patches. The foliage is much like that of other beans. The vines from 10 to 20 feet in length."

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tlemen and ladies to travel for a responsible established house in North Carolina. Monthly \$61.00 and expenses, Position steady Reference. Enclose self-addressed stamped envelope. The Dominion Company, Dept. B

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HOUDAN CHARACTERISTICS. A Fowl Which Appeals to Both Fancier

It will be many a day before our French friends send us a better all round fowl than the Houdan. As a utility fowl, a fowl for egg and meat production or for cross breeding, it is better than some breeds and inferior to none. As a fancier's fowl it is worth our best attention, for while it breeds very fairly true, it is difficult to produce a first rate bird, and it requires considerable judgment and skill to show and keep in tiptop condition.

The Houdan nowadays is more fixed

in type and points than it used to be, or, rather, the ideal of the breeder has been definitely settled and generally accepted. The term "leaf comb" conveys a definite meaning. The crest must be large, and, above all, "smooth"-that is, the feathers must all trend in the same direction. The body should be large and massive, back broad, breastbone long and deep, giving a broad and full chest. Black and white are the colors, and no other color should appear. There should be more black than white. and the black should be the green, glossy black, not a dull, rusty shade.

The Houdan is a mottled or spangled

bird. This mottling is produced by white tips on the ends of black feathers, and should be scattered evenly all over the bird. Such markings usually show more white than black after each molt. Consequently chickens are permitted to wear a darker suit of feathers than their parents. All the same, some strains vary very little after molting. I am perhaps rather singular in preferring those glossy



HOUDAN COCKEREL green dark birds, evenly and slightly mottled with white, just as if a black bird had run through a snow shower but to my mind they are handsomer than the lighter colored ones, which are really-when closely examined-white birds mottled with black. With the darker color of feather we

leg and foot, which we don't want. The Dorking has had much to do with the making of the Houdan. We see it in the type of body, in the five toes, in the white skin and juicy flesh, and we should try to preserve the white legs, mottled though they may be with black. running about on light colored or motfowl it should be a point in its favor if it can be bred with the same perfec-tion of head and body, with dark hued plumage and yet with light colored legs.
The Houdan improves with age. Its
points only fully develop after a molt

or two, so chickens have little chance in competition with adults. On the other hand, it must be recorded that as the chickens usually alter very much in color after molting the hopeful expectations based on a youngster's performance are often unfulfilled in the fu-

The Houdan can by no means rank as a neglected breed. It has too many friends for that in this country, who, on account of its excellent attributes gallantly stick to it through thick and thin. Moreover, it offers a splendid opening for the enterprising breeder of crested poultry, and I strongly commend it to the care of those fanciers who have a partiality for this peculiar tribe.—J. P. W. Marx in Feathered World.

Advantages of Uniformity. There is an advantage in having a

uniformity in the flock besides their beauty in the yard. When it is necessary to kill for market, almost any dealer will pay more for a lot that are uniform in shape and weight than he would for a mixed lot. We remember calling upon a shipper of Rhode Island turkeys at one time, and being asked to look at a lot he had just received from a farmer. "Look at them," he says. 'Don't they look as if they were run in a mold? All the same form and almost the same weight. I like to buy his turkeys. I can pack a box from them that will bring 2 cents a pound more than a box of what I might pick as the best out of a balf dozen lots." paid any more for them or not we cannot say, but if the grower did not profit by having his turkeys uniform he might have done so by taking them to the city

Coops For Chicks. For young chickens when large enough to be taken from the care of the hen it is a most excellent idea to have a number of small coops, not more than four or five feet square and perhaps three feet high, or even less, in which they can easily be taught to stop nights, if the floor is kept well covered with dry and clean straw they will do much better than they would in the

The whims of hens in selecting a nes are unaccountable. While some like a dark corner and will go far to seek it others choose an open box in plain view

A Cure for Neuralgea. I was for some time a sufferer from Neuralgia. I tried nearly everything I could hear of, but nothing did me any good until I pur-chased a box of Ramon's Liver Pills & Pellets and [began to use them. They relieved me at once.



SHE MUST SAY.

Bweet Husbands, Indeed, Some of Thes Men Do Make. "Where you going!" asked Mrs.

Nagg the other evening when her husband took his hat from the rack Sole Agents in the hall and began flecking the dust from it with his handkerchief "Oh, I'm just going out for a lit For this line of tle while!"

"Where?" "Nowhere in particular." "Oh, any place or anything to get Pants away from home, I suppose! It seems to be an actual trial for you to stay ten minutes under your own roof. It's a compliment to a wife. I must say, when her husband takes his hat and streaks off anywhere and everywhere in the evening in- Overalls. stead of staying at home with her, and here I work and slave from morning until night trying to make home a cheerful, pleasant place for

"My dear, I"-"Don't be guilty of the sin of perjury by calling me your 'dear!' You act as if I were very, very dear to you, I must say! Racing and running off all over the country and leaving me alone with my children. If it was not for them, I'd be only too glad to die, and"-"I wish, my dear, that"-

you, but I might as well''-

"Oh, yes, of course you do! You would be only too glad if I did die! If you do feel so, I'd try to have the lecency and the manliness to keep it to myself! Much real mourning you'd do for me if I did die! It's leasant for a wife, I must say, to have her own husband, that she's worked and slaved and had four children for, stand up and tell her to her face that he wishes she would andonbtedly have got a darker color of die! I suppose if I did you'd up and marry again in six months, and"-

"Not by a - sight, I wouldn't!" "There, swear at me! I suppose you'll be knocking me down next and dragging me around the house by the hair of my head! It's a comwe have none too many hardy fowls pliment to a wife, I must say, when prinning about on light colored or mother husband swears that he wouldn't ant for her to be made to feel that she has made married life so unpleasant that he'd rather die that marry again! That's my reward for years and years of patient self sacrifice and true devotion! If you had married a woman who had not cared anything about your comfort and happiness and who had not tried to make your home a cheerful, happy, restful place, you might have een justified in the conduct you have been guilty of for so many

years, but I must say that"-"You've been saving it for 2 years, and"-

"Go ou! Revile me! Abuse me to everything you can lay your tongue to! The time will come, Joe Nagg, when you'll know just how pice and cheerful and pleasant your home was as compared to what it will be when your open cruelty 3 has made you a widower, andthere, he's gone and banged the door hard enough to break the hinges! Well, I must say, if these men ain't hard to get along with, I there, he's gone and banged the men ain't hard to get along with, I don't know who is! Sweet hus bands they make, I must say!"-New York World.

In Place of a Grindstone Boys who think it Bard to be compelled to turn the grindstone should instead be thankful that they have thing so easy as they do. The Six Towns history, tells how Duncan McIntosi who settled somewhere about 1750, brought with him from Portland a new scythe which be neglected to sharpen before he left that place, and when his first crop of hay was ready to harves be found that there was no grindstone pearer than the old province fort at South Windbam, a distance of four or five miles. Not wishing to spare the time to go that distance he decided to do the next best thing, so he made a dozen iat pine sticks, took a pot of grease an his seythe down to the beach in front of his house, greased the sticks, sprintually rubbed his scythe to a sharp edg Afterward when questioned as to the amount of labor and length of time required for this unique operation he re-plied that it was no great affair, as it took him only one day to get his scythe into a good outling order.—Kenneber

Eggs For Hatching Too much care cannot be exercised in the selection of eggs for batching. Only those from strong, well mated fowls should be used, for upon this depend the fertility of the eggs and the vigor of the young chicks.

For broken surfaces, sores, insect oites, burns, skin diseases, and especially piles, there is one reliable emedy, DeWitt's When you call for DeWitt's Salve. They relieved me at once. Phat was over a year ago, and I have had to return of it since.—Mrs. Willie DeWitt's Witch Hazel Salve. J. C.



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Very respectfully, JAMES P. ALBRIGHT, BURLINGTON, N. C.

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would naturally look you up. See? Had you ever thought of it?

