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pe all this pain.

THEIR CONSTRUCTION.

the roads of France has admired the way they are constructed and the way they are kept in repair. Not only are the roads themselves a thing of beauty, but they seem to have been cut through the most picturesque parts of the country. Abrough thick forests, woods, pastures green, cultivated fields and where one can feast the eye with the accidental beauties of the horizon.

"Two principal things must be looked to in the construction of a road," said M. Delaplane, one of the principal functionaries of the ministry of public works, to a correspondent of the Brooklyn Eagle, "they are beauty and utility. Beauty is obtained by the planting of trees on each side, which, by the way, has also its utility, and the sight of a smooth, even road that winds along like a golden ribbon through green fields and woods, which brings the comforting thought to a native that his people are happy and prosperous, that there is well being where the road begins, where it ends and all along where it serpentines its way. As for

where it serpentines its way. As for utility, it is hardly necessary to tell ypu that a road is built to be used and that its existence ought to be considered only in so far as it is practicable. "Americans, who are considered the most practical of all people and who know the value of money, do not need to be told that anything made must be made to be useful, useful for length of time as well as for the present moment. When erecting national edifices, for the

sake of economy government must look to durability. Government has no age. It cannot say like the dippant Louis XV, 'After us the deluga' It cannot say, 'I am doing this for this generation,' It must act like a father who looks forward to leaving his works to his children and his grandchildren in a perfect state, provided his descendants respect his works sufficiently after-ward to keep them in good repair. It is not enough to build. What is built not enough to build. What is built must be kept standing. That is the principle that guides us for the keeping of our roads. We cut very few new roads at present, and almost all of the money allotted for that part of the public works goes for repairs and maintenance of the roads, which are in better order now than when they were constructed."

It is well to remind Americans that France has about as many square miles as Ohio, and it is only fair to the country to compute the money spent on the roads with the extent of its territory. There are three kinds of roads in

appropriate large sums of money for their construction and maintenance. During Napoleon's time national roads were divided into three classes. pense for the first and second classes. The third class was built and maintained by the national and departmental ent and the departmental and rural roads by the departments and the communes. With small modifications

the same Napoleonic laws still exist.

After Napoleon's time it was during

After Napoleon's time it was during the reign of Louis Philippe that special attention was paid to the building of new rollds and the voting of yearly funds for repairs.

According to the accounts put on file in the ministry of public works there was a total of 38,000,245 kilometers of national reads in France in 1897. sational roads in France in 1897.

mile. Only about one-eighteenth of the national roads are paved. The rest are

stone roads—chausees empierrees.

The building of a national road costs 40,000 francs a kilometer; 40,000 francs is about \$8,000. The repairs and overseeing cost 800 francs a kilometer per year, about \$160. The sum total of repairs a year is 30,000,000 francs, about \$8,000,000. The maintenance of the roads is by a special administration, which has numerous ramifications. The which has filmerous ramifications. The French concern themselves much with details, small details. They are not to be blamed for this. On the contrary, they are to be praised, for it is only with the observance of details that one obtains good work. It is not only in artistic things that details count, it is in all kinds of work.

in all kinds of work.

Among the many volumes of the ever
increasing encyclopedia of public works
there is one made up of a course of
lectures upon the roads of Prance, delivered at the School of Public Works by the inspector general, M. Dürand Claye. That volume contains proctons knowledge concerning the building and maintenance of roads, and in one part the author mys that the following requisites are necessary to make a road

antisfactory:
A road must be smooth and the as-perities which are unavoidable must be amouthed down as much as possible.
It must be bard and elastif.

It must be hard and elastic.

It must have no holes or ruts.

It must be constructed upon a resisting noncompressible soil, in order not to give way under heavy loads.

The materials which compose it must be perfectly mingled together.

There must never be either dust or mud on a road.

These considerations must always be present to the minds of constructors and maintainers of roads. The application of them must, however, be subor-

THE ROAD SURFACE.

Prevailing Erroneous Ideas as to the Functions of a Pavement.

The function of a pavement or road surface is very imperfectly understood even in sections where stone roads have been in use for long periods. It is commonly supposed that a wet spot or bog will become dry if filled in, that a good road may be made anywhere simply by making a shallow french of the desired width and filling it with stone and that the surface of a stone road needs to be

"protected" from wear by covering it with loose screenings, sod, earth or any old stuff that is handy in hot weather. To these erroneous notions are due many failures to get durability and satisfaction from attempts at road building, says L. A. W. Bulletin. The impor-tance of drainage is not fully appreciat-ed in most sections, but it is at the bot-tom of successful road construction, and neither permanence nor economy is pos-sible if it is not amply provided for." A wet spot must be thoroughly drained before a road is carried over it, or it will always be wet, at least in the wet

season, no matter what else is done to it. Water under a roadbed is as fatal to the life of the road as water in a man's



MORE LIKE THIS REEDED. nakes it little better than a mere drain for water settles on the surface, quickly softens it and prepares it to be cut up by every passing vehicle. A raised and crowned roadbed which will shed water readily is essential. A dry base with a slightly arched cover of stone capable of

shedding the rain is requisite for a dry, permanent structure.

The stone readway is not only to serve as a roof for the natural base beneath, but is to take the wear of traffic and not to be covered with other material as a "protection" to it. In places where earth is used for "binding" porposes and little regular attention is paid o the reads and sprinkling is not done in dry weather, the road surface breaks up rapidly under the influence of the son. It is then that it has heaped upon it to "protect" it quantities of fine screenings, or earth and stones, and sometimes even clay and sod from the gutters. The result is a poor road for months unworthy of the name "mac-

If complete drainage is secured at There are three kinds or reasonable france, the national, the departmental and the rural roads. For political as in dry weather and is thoroughly rolled as laid, without the use of clay to bind as laid, without the use of clay to bind as laid, without the use of clay to bind as laid. was Napoleon I who began to look seriously into the condition of roads and to appropriate large sums of money for ment of lasting worth.

MATERIAL FOR ROADS.

struction of highways. The kinds of stone used for the construction of stone roads are num and they are generally classified in the following manner: There is great difference in the hardness of the stone ranging from marble to the pri able limestone. In comparison with the others limestone produces more sand and dust. It is more appropriate to dry than to damp countries.
Silex is hard but breakable. It does

not wear away with frict on, but is easily disintegrated. The debris is en-tirely different from that of the limestone. It does not form a paste with water, but with humidity be pact. Silex is good, therefore, for rainy countries and bad for southern climates. There is much analogy between quarkz and silex. Quartz, however, is less breakable. It makes excellent roads for all lands in all climates. It has only one fault, the debris does not become

ufficiently pasty.

Granita with the analogously com-Granits: with the analogously composed rocks, gneiss and syenite, is considered among the best material for the
building of roads. It is hard, not breakable, and the debris makes a good paste.

Porphyry makes the best roads. The
hardness and clasticity of the paste permit porphyry roads to resist wear and
tear and shocks. This rock has only one trawback, it is too expensive. - Brook

Don't Drive In the Same Track. A road that receives little care soon shows wheel tracks and ruts. If it was constantly swept and frequently scraped, both of these would be obliterated, and drivers would not follow so constantly in the same tracks, to the great detriment of the road.

Adjustable fron tires for heavy wagcan be easily put on, thereby converting the ordinary road destroyer into a roa

Bonds In St. John. In summer season, rather nice; In winter, one smooth glare of ice; In spring and autumn, nothing less Than concentrated cussedness. Quit putching the road all to ple

A wide the maketh a smooth road but a narrow tire rippeth up the high-

Hing up

red wagons.

Old Ring Cole

Ras a nerry old nonleA merry old nonle he;

For he reas in fartild.

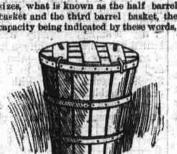
But he called for a spade

consired every road he could see. St. John (N. B.) Telegram

SHIPPING PACKAGES.

Basket - A Good Fruit and Vegetable Carrier. One of the editors of The Bural New Yorker, who keeps an observant eye-apon the marketmen of New York city, has recorded what he has seen recently in the way of shipping packages handled by them, giving illustrations of the

Figure 1 shows a round basket which has come into quite general use, espe-cially with southern shippers during the past few years, and which is certainly a model. The same style comes in two sizes, what is known as the half barrel basket and the third barrel basket, the



A NEAT DASKET FROM THE SOUTH. though some of the baskets look as though they had shrunk. The basket is very strongly built and is covered by a slatted cover well fast med on. It is used by the southern shippers for string beans, peas, new potatoes, onions, squashes, as well as for apples and some squashes, as well as for apples and some other fruits and vegetables. It presents an extremely neat appearance, is very convenient for handling and is well ventilated. Its use might well be extended, especially by northern growers, for fruits and vegetables. I have just seen some of this same style of baskets, the bottoms of which are square with the corners rounded off, thus making the baskets nearly square instead of round. The only advantage I astead of round. The only advantage I can see for these is that they might be packed together more closely in car or boat, thus saving space. These baskets vary considerably in size, height and capacity, but are alike in general style. Fig. 2 shows one of the most popular packages in market for the shipment of

fruits and vegetables. It is simply a light, open case made of thin stuff, but tolerably strong, and holding six small baskets a little larger than the common five pound grape baskets. Occasionally some are seen holding eight tills or baskets and sometimes one holding four, but the popular size holds six in two tiers. The one shown is filled with to matoes, the end baskets showing them as they come wrapped in papers, the one in the center having the papers red moved to show the fruit. A larger part of the southern tomatoes come in these carriers, as well as the peaches, plums and grapes, and they are largely used for shipping northern grapes and for



A CARRIER LARGELY USED. many other products. The construction affords good ventilation, the baskets serve to carry the contents in good shape and are of a size that pleases retailers. The cost ought not to be great, either. One sees peaches everywhere. The larger part of them are the Elbertas from Georgia, and a fine appearance they make, too, the baskets being those used in the regular carriers, holding perhaps about six quarts. I saw one small lot in octagonal crates, the crates having a partition like orange boxes, and holdng probably about three pecks each.

Condition of Crops. Following is The Orange Judd Farmer's statement of the condition of corn oats and spring wheat on Aug. 1 by states and the rate of winter wheat yield as so far developed by thrashing:



Stripping Corn. Stripping the leaves from the stalks (a very common practice in all parts of the south) is considered by ex-Director Tracy of the Mississippi station as of doubtful economy, especially when the work is done by hired labor. More or less cars are sure to be broken off and lost if the stripping is done carly the lost. If the stripping is done carry, the yield of grain is decreased, and if done late the fodder accured is of but little value. It is often the case that laborers are glad to pull the folder on shares, taking one half and giving the owner the other half. If the crop is well ma-tured before the pulling is done, this will be profitable to the owner, but the fodder will rasely pay for the letter when it must be pulled by hired labor.

To Cure A Cold in One Day. Take Laxative Bromo Quinine Tablets. All druggists refund the

THE LATEST BEEHIVES.

lome Parts That Are Practically New and The accompanying cut of a beehive is presented by the Kansas Farmer as showing the latest improvements in hives at the present time and bidding fair to be the hive of the future for perhaps generations, with but little if any change. While the principal features of this hive are old, yet some parts of

it are practically new especially the surplus arrangements. The cut is ex-plained as follows: B is the body of hive or brood cham-ber and is a hive of itself and is always used to contain the colony proper, and any addition to it is extra in the way of surplus room. It is called a "one story of surplus room. It is called a "one story hive." This department contains eight Langstroth frames, which are in measurement 1756 inches long and 936 inches deep. This body contains about 2,000 cubic inches, which is considered the proper size for a beehive. It is used exclusively to keep the bees in from the time they are prepared for winter in autumn until they are strong enough in spring to add upper stories.

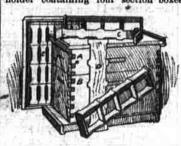
in spring to add upper stories.

A is a super or half story, which contains 24 one pound section boxes and is used for comb honey exclusively. This super is first added at the beginning of the honey flow, when the colony is sufficiently strong to receive it. They are allowed to occupy this until about half full of honey, when another just like it is added, the empty one placed under the other, which induces the bees to occupy all, or both tiers at once,

ing the honey is on top.

E, at the back of the hive, is a view of this same super, showing the position the section boxes occupy when on the bive. The cut E in front of the hive is a section of the same, being a section holder containing four section boxes,

which they will do, as the one contain-



IMPROVEMENTS IN DEERIVES. The section holder is represente ying on the hive and is marked C. Six of those section holders, containing our sections each, making 24 section in all, are used in one super, and, when two tiers are used, doubling the numer to 48. There will be observed at E, representing the four sections, the man-ner in which foundation starters are used, showing them in the upper part of the section boxes. D is a separator, of wood, one-sixteenth of an inch thick, which goes between each two rows of sections and separates them, thus compelling the bees to make the honeycom! straight in the section boxes. Two bodies are used, one over the

ther, for extracting. The upper story contains eight frames and is the same in every respect as the brood chamber These two stories are used also, or at least should be used, in building up honey harvest. A single story is not of sufficient capacity to contain strong colonies or is not large enough to breed up extremely strong colonie and contain the necessary amount of stores that such colonies should have on hand at this period of the season. By the use of two stories thus almost double the strength of colonies may be attained prior to the honey barvest, and this always means an increase in the same proportion to the honey crop. Comb honey for use in the apiary is also secured in this way and a reserve of it may be kept on hand for the bee when at any time they need it, and it is a very small per cent of hives that do not need frames of good sealed honey given them in spring and during time they are breeding rapidly.

The Wild Timothy of Texas. Of all the native bay grasses of central Texas wild timothy is one of the most valuable. It does not occur except in moist soils, but there it grows luxuriantly. A specimen collected near Abi-lene measured 4 feet 7 inches in height, and it is often seen over five feet tall. It is slender and erect, its stems soft even when owned with an abandance of leafage that does not fall from the stome, many seeds that do not drop readily, and short but numerous creeping root stalks. A farmer on whose place a lot of this was growing informed me that the only grass of the many varieties growing together on the place preferred by his cattle over this wild timothy was the wild outs (Uniola latifolia). An acre of good moist land seeded down to wild timothy ought to produce in a fair season two to 214 tons of hay equal to the best grown in any country. L. Bently. News and Notes.

The Palmette asparagus seems to resist rust better than many other popular

It is expected that the apple crop of England will be short, lowing in part to the prevalence of insect pests. Bush cutting is now in order, the underbrush close to the ground

beat and drought will do the rest. Thrashing in some sections is prov-ing the winter wheat crop lighter than was expected. Reductions from the big crops anticipated are reported from Kansas, Oklahoma and Texas. Mammoth white winter rye is receiv-

the grain. The various sufavorable conditions that have corrounded the corn crop from the start make it safe, in the opin-ion of Orange Judd Farmer, to assume that the total yield will fall materially below that of last year.

the straw as well as the fine quality of

I was for some time a sufferer from Neuralgia. I tried nearly everything I could hear of, but nothdid me any good until I pur-sed a box of Ramon's Liver Pills & Pellets and flegan to use them. They relieved me at once. That was over a year ago, and I have had no return of it since.—Mrs. Willie



SQUAB FARMING.

How a Michigan Man Has Built Up Profitable Business. The only squab farm in Michigan is located about three miles south of Grand Haven. Squabs are young doves or pigeons and are estoemed great delicacies in epicurean and midnight luncheon circles. There are several large squab farms in the east and one near Toledo, but the only one in Michigan so far as known is at Grand Haven, and it is conducted by F. J. Bermenther. it is conducted by F. J. Bernreuther.
His farm comprises about 10 acres of land, but only a small portion of this is given to the squab industry, the rest being planted to wheat and corn, which form the staple diet for the old doves. He has a big cage of woven wire. It is 80 by 120 feet and 20 feet high, and the doves are kept confined by the wire netting on the sides and above. On the Overalls. north side of the cage is a long low building, in which the doves keep house. The roof has a southern exposure and a windbreak, and here the doves sun them selves. The building is divided by par titions into rooms about ten feet square These rooms are banked up on three sides, tier above tier, with boxes, and these boxes are the nests, where the eggs are laid and the young are hatched and grow to be squabs. The partitions and boxes extend upward to the caves of the building, and above the space is open from end to end, allowing free

passageway for the doves and a roosting place for those not busy with domestic hatched be does his full share toward feeding them. Four weeks after the young birds are hatched they become marketable as squabs. The birds are in full feather, but not yet able to fly. A fast of 24 hours is the prelude to the flight into the dove heaven. This fast is imposed not to make them meek in spirit, but to clear their crops of food. Then a sharp knife point opens a vein in the throat and as the lifeblood cozes out the bird's brief career closes with a out the bird's brief career closes with a

While the flesh is still warm the feathers are pincked out, the crop is washed out and the denuded body is thrown into a tub of water to cool. The next day it is packed in ice for shipment. The squabs, dressed for market, weigh about half a pound, and the great market for them is New York. There is only a small demand for them in Detroit, and Chicago, big and metropolitan as it is, is a poor market. Almost the entire product of Bernrenther. most the entire product of Bernrenther goes to New York, and the shipment average three or four dozens a week the year round. The squabs command from \$1.50 to \$3.50 a dozen, and there is money in the business.—Chicago Inter Get Rid of Useless Cockerels

bites, burns, skin diseases, and especially piles, there is one reliable remedy. DeWitt's Witch Hasel Salve. When you call for DeWitt's don't accept counterfeits or frauds. You will not be disappointed with One Minute Cough Cure, cures. Rece, Garley, Ala. For sale by J. Semmons.



All Clothing Buyers

Travel Towards

High Art Clothiers. OPPOSITE McADOO HOTEL, GREENSBORO, N. C.

After the two pretty white eggs are laid the male takes his regular trick at sitting on them during the 21 days of incubation, and when the young are hatched be does his full share toward

The poultry raiser who does not get as many cockerols as pullets among his as many cockerols as pollets among his chickens is fortunate. With the early hatches these cockerels may be sold as broilers at 1½ or 2 pounds each, but as the broiler prices go down later in the season it may be more profitable to keep some of the later ones until they weigh from 4 to 6 pounds each and sell them as roasting chickens. If a standard bred flow, is kent if may be profitable to fock is kept, it may be profitable to keep some of the best ones until spring to sell for breeding purposes, but if they are not standard bred sell every one of them, and the poorest of the pullets with them, and next spring buy a good male to put with the flock and grade them up or buy eggs of some one good breed for hatching and keep no rocater at all. The extra number of eggs produced when no male runs with them will go far toward paying the extra price that may be asked for the pure bred eggs, and a flock of chickens, uniform in shape and color, will be a pleasure every time they are looked at, and a lot of time they are looged at, and a lot of chickens or a lot of eggs all alike, if of the right breeds, with yellow legged pentry and brown shelled eggs, will always sell better here, and often at a better price than a mixed lot of all shapes and colors.—American Culti-vator. A Word For Dorkings

As to their hardiness, if the chicks are not crowded and get fair care during their first feathering they will give no trouble. As to the adult birds, they are as hardy as any breed and are extremely long lived; especially is this the case with the females. I have had hens 8 or 9 years of age and always noticed that even at this age they laid a fair number of eggs. Although our winters are often extremely cold, I know many farmers who do exceedingly well with Dorkings, even with the most ordinary of farm care. Occasionally I have remarked that writers claim that Dorking eggs were extremely infertile. I think there must have been some fault in the stock of these people, because I have always found their eggs to be quite as fertile as those of any other treed. In conclusion, I may say that I feel perfectly satisfied that should any beginner decide to give Dorkings a trial and gives them a fair chance he will have no essee to regree it.—Our. Poultry Monthly. ters are often extremely cold, I know

For broken surfaces, sores, insect



The Appearance without the Cost All the Leading

Clothing Lines Are confined to Our House. Our guarantee is "Your Money Back

If You want it."

T. B. Ogburn, L. C. Howlett.

I wish to call the attention of insurers in Alamance county to the fact that the Burlington Insurance Agency, established in 1893 by the late firm of Tate & Albright, is still in the ring.

There is no insurance agency in North Carolina with better facilities for placing large lines of insurance, that can give lower rates or better indemnity. Only first-class companies, in every branch of the business, find a lodgement in my office. With a practical experience of more than ten years, I feel warranted in soliciting a share of the local patronage. I guarantee full satisfaction in every instance. Correspondence solicited upon all matters pertaining to insurance,

I am making a specialty of Life Insurance and will make it to the interest of all who desire protection for their families or their estates, or who wish to make absolutely safe and profitable investment, to confer with me before giving their applications to other agents.

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

Suppose you had a nicely displayed advertisement in this space, then what? Why the 2,500 eyes that scan these pages every week would see it and would know of your business, and when something in your line was wanted they would naturally look you up.

See? Had you ever thought of it?

