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counties-a point for advertisers. VOL. XXV.

GRAHAM, N.C., THURSDAY, JULY 13, 1899.

A POTATO REPORT.

cluding New Introductions

For the past three years the New Hampshire station has been pursuing

work in the interest of potato growers

and it now issues a report covering the

results of experiments with 104 vari-

BED AMERICAN WONDER.

eties, including the new introductions.

The claim that the Sir Walter Raleigh

its behavior at the station during two

Red American Wonder (numbered

99), also called American Wonder, a

regular and erect, making a very uni

form row, almost square top through-

only about 6 per cent were small.

Commenting upon these, Late Puritan and Filibasket are mentioned as

good croppers; Sir William wants clay loam; Seneca Beauty is a fine pink

dium oval; Orphan, a long potato, fine. Some points heretofore advanced in

pointo culture, which the experiments

reported by Professor Rane seem to con-firm, are:

The yield from planting the seed or bud end is generally greater than from

were:

TRICKY PRICES.

Some people imagine a price will sell a shoe—they don't worry about the shoe; just so the price is low enough. A fancy name shouldn't influence you buy your shoes on merit, look deeper than the surco. You want shoes that will wear, take the brunt of everyday service an I that will give you more than

the worth of your money. "
It more shoos for full than ever oes, Good Shoes, Shoes that will We have bot before. Heavy wear. If you need a heavy pair of shoes, or a light pair of shoes, everyday or Sunday shoes, we can furnish you. Oxfords as low as the lowest.

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PROFESSIONAL CARDS.

→ JACOB A. LONG. ↔

Attorney-at-Law,

LOCATION OF ROADS.

BETTER GO ROUND A HILL THAN CLIMB OVER IT.

Level, Winding Road In Always Setter Than a Straight, Hilly One. Especial Care Should Be Given to Proper Drainage of a Highway.

In the Year Book of the department of agriculture is printed an excellent article on the construction of country roads, written by M. O. Eldridge, assistant in the office of road inquiry. He deals with the present work to be conducted with a view to future improvement, location of roads, grades, drainage and other important details of modern road building. Mr. Eldridge

Many roads of this country were originally laid out without any attention to general topography, and in most cases followed the settlers' path from cabin to cabin or the boundary lines of farms regardless of grades or direction. Most of them remain today as they were originally located and where untold labor and expense have been wasted in trying to haul over them and in endeavoring to improve their deplorable condition. It is a great error to continue to follow these primitive paths with public highways. The proper thing to do is to call in a good road engineer and have the location so changed as to throw the roads around the ends or along the sides of the steep hills and ridges instead of continuing to go over them, or in raising the road up in dry, solid ground instead of splashing through the mud and water

of the bogs and creeks in the lowlands. If a road goes over a hill when it might go around, the labor and expense put upon it are absolutely wasted, and better. If a road is not rounded up and surface drained, it should be, not only for present use as an earth road, but as a preliminary for macadamizing. If it is not underdrained in all wet spots, this should be the first work done. Nothing indeed will pay better for present use than putting in tile or stone

drains.

In laying out a road straightness should always be sacrificed to obtain a comparatively level surface. Although this is one of the most important principles connected with road building, it is one of the most frequently violated. There is no objection to an absolutely benefit to be a presented and actual. straight road, but graceful and natural curves conforming to the lay of the land add beauty to the landscape, be-sides enhancing the value of property. Good roads should wind around hills instead of running over them, and in many cases this would not increase their length, as it is no farther around some hills than over them. Moreover, as a general rule, the horizontal length of a road may be advantageously increased to avoid an ascent by at least 20 times the perpendicular height thus saved. For instance, to escape a hill 100 feet high it would be better for the road to make such a circuit as would ncrease its length 2,000 feet. The asons for this are manifold, the prinipal one being that a borse can pull only four-fifths as much on a grade of 2 feet in 100, and gradually less as the grade increases, until with a grade of 10 feet in 100 he can draw but one-

orth as much as be can on a level The greatest load that can be hauled over a road is the load which can be hauled up the steepest hill on that road. The cost of haulage is therefore necessarily increased in proportion to the grade, as it costs 1½ times as much to haul over a road having a 5 per cent to had over a road having a 5 per cent grade and three times as much over one having a f0 per cent grade as on a level road. As a perfectly level road can sel-dom be had, it is well to know the steepest allowable grade. If the hill be one of great length, it is best to have the lowest part steepest, upon which the horse is capable of exerting his full describe and to make the slope more rength, and to make the slope more atle toward the summit to correcond with the continually decreasing

spond with the continually decreasing strength of the fatigued animal.

All things being considered, the horizontal grade of a road abould never be greater than 8 feet to 100.

Water being the greatest enemy of the road, it should flow freely off the surface. This is accomplished by preparing the bed so there may be a fall from the center to the sides of 6 inches, never exceeding 9 inches, on a road 80 feet wide. For a road 18 to 20 feet wide 8 to 4 inches is enough. A ditch wide 8 to 4 inches is enough. A ditch should be econstructed on either side of the road to carry away easily and their road to carry away easily and vicinity. These ditches should have a continuous full throughout their entire length, and their size should depend upon the amount of water they are expected to carry. Water should never be allowed to flow agrees a roadway. Only allowed to flow agrees a roadway. The should flow that water should not be an accessary that water should not be allowed to attack the substructure from the construction of high transfer to private anterprise a function of the state and allow tolks to be levied in roturn for the construction of high water should not be permitted to perceinte through it from above.

Underdrains are easily and cheaply made, and when properly constructed with the best tools and materials available will last for ages They should be able will last for ages. They should be about four feet deep and carefully graded at the bottom so as to have a fail throughout their entire length of at least six inches for each 100 feet. Tile drains should be used if possible. but if they cannot be secured large, flat stones can be carefully placed so as to form an open channel at the bottom Slim fagots of wood or brush bound together in bundles and laid lengthwise field stones or gravel. The drains should be protected by straw, sod or brush to prevent the soil washing in and clogging them

SURFACE OF ROADS.

Only the Hardest Stone Should Be

The advantages to be derived from good stone roads are so manifold that Big Shoe Store, all other materials should be discarded where tough road stone is available for their construction and maintenance. But it is greater economy to use earth or gravel than to go to the expense of nacadamizing roads with too soft, too brittle or rotten material. Many use this because it is easily prepared. A road should never be surfaced with anything short of trap rock or serpentine. Inferior material may often be

used with impunity for the first layer, or foundation, but even this should be elected with great care. The evils resulting from improper

onstruction of stone roads are even greater than those from the use of im-proper material. Macadam never in-tended that a heterogeneous conglomeration of stone and mad should be called a macadam road. Neither did be intend that the name should be applied to roads constructed of large and small stones mixed together and spread upon the surface. The surface of a road built in this manner is constantly disturbed by the larger stones, which work to the surface and which are knocked hither and thither by the wheels of vehicles and the feet of animals. Such methods of construction cannot be too severely

The first course of foundation of the nacadam road can be made of the coarsest stones from the crusher, provided that they are of uniform size and that each stone shall weigh not over six ounces and will pass through a 21/2 inch ring. Where the road is to be eight inches thick this foundation should be four inches after rolling. If the road is to be of greater thickness than eight inches, the foundation should be composed of two courses separately rolled.

After having thoroughly rolled this foundation apply enough ground stone or coarse sand to fill the interstices. This should be wetted and thoroughly rolled until a hard and uniform surface is obtained.

Upon this foundation the surface material should be placed, wetted and thoroughly rolled. The stones of which this surface material is composed should be if possible crushed to a size of one inch in diameter; but if that is its direction is changed the not possible they should never be larer in diameter than !! Ground stone screenings should then be spread upon the surface, wetted and before, until a bard smooth surface is the result.

> STATE AID FOR ROADS. What the System Has Done For the

Parmers of New Jersey. Road building by state aid is steadily increasing in New Jersey, says En-gineering News. The principal con-struction has been in the direction of roads four, six and eight inches deep. as experience has shown that properly drained earth is a sufficiently good foundation for any road superstucture, and all that is wanted is enough

"metal" on the surface to stand up under the wear until the roads have to be resurfaced. This happens when the roads are subjected to two or three inches of wear. To cheaply maintain the surface an application of coarse and or gravel and loam containing oxide of iron will keep the surface in good condition and make a soft cushion for the feet of horses.

The authorities of New Jersey bave lecided on roads 10, 12 and 14 feet wide in the country and 16 feet wide



TEAMECS DOAD, NEW JERRY. [From L. A. W. Bulletin.] in the towns as the limits for state aid.

If the citizens wish wider roads they must do the remaining work at their own cost. The roads are now costing from 20 to 70 cents per square yard. depending on the locality, availability stone, etc.

Before the advent of stone roads the

leading highways, not graveled, were almost a bed of sand, and teams carried 40 or 50 beskets of produce to Philadelphia markets with difficultys. Farmers shipped produce mainly by railways and bosts as being the observer method

A Steamship's Chinn and Silver.
Helen C. Candee gives an interesting view of "Housekeeping on an Ocean Steamship" in Ladies' Home Journal, thus describing the vessel's china and silver: "There are 1,000. spoons for soup, the same number for tes and half that number for coffee and dessert. The heaviost fork drawer contains 1,000 dinner forks, and next to that is the same number of break-Makes the food more delicious and wholesome

fast forks. For raw oysters there are 300 forks provided and for fish about the same number. Knives follow close ly the same figures, 1,000 each of dipper and brenkfast sizes. GOO for dessert and © for fruit.
"The pantry is lined with shelves which are fitted with racks in which

stand high piles of china, secure from the motion of the stormlest sea. The plate warmer holds many of them, but there are enough left to stock a china shop. There are 1,200 cups and saucers for coffee, ten and bouillon. There are over 400 water tumblers and other glasses in smaller proportion. The plates of the popular size number 2,200, and the soup plates are only

A Rotel In a Graveyard. One of the largest hotels in Central America, and by far the largest in Balize, Honduras, is surrounded by tombstones. It was erected about 30 years ago in order to meet a want which had long been felt by tourists.

As this old and abandoned cemetery was located in the center of the town and afforded an excellent site for a botel the necessary permission was obtained from the proper authorities, and in less than a year a large and handsome hotel of wooden material occupled the greater part of the ground which had for very many years been used as a place of interment.

In digging the foundation hundreds of skulls and bones were discovered, all of which were carefully collected and interred in the new cemetery. Numer ous tombstones surround the hotel which it has not been thought neces sary to disturb. In the hotel is a room in which divine service is conducted by a local preacher every Sunday .-Kansas City Star.

An Easy Remedy. In speaking of the peculiarities of the colt Limerick, Ben Kenney told me that he cured him of the annoying habit of throwing his nose out and shaking his head by simply trimming all the long hairs out of his nostrils. says a writer in The Horse Review The wind blew the hairs back in his nose and tickled him so that he couldn't keep his head still. Kenney said that he believed long hairs in the nose were just what caused so many horses to shake their heads when trotting against the wind. It is a new one on me, but it looks sensible and is worth remembering.-Trotter and Pac-

Not Absolute Confidence Aunt Jane-1 suppose in the confi-dence that love begets you have told Henry all about yourself. There may come a time when you will be sorry you have been so frank about yourself. Ethelrosa-But you see I have always taken care to tell him what -Boston Transcript

Food Value of Hen's Eggs. A subject for continual discussion be tween poultrymen, and especially writ-ers on poultry, is the difference, supposed or real, between white and brown eggs. On this question a bulletin of the government's agricultural bureau says, and this ought to settle it:

"It has been said by some that the brown eggs are richer than the white ones. This statement is not borns out by a chemical analysis, and the physical examination proves that the main points of superiority, though extremely alight, are possessed by the white eggs. The minute differences that are found between the two groups are exceeded by variation between the varieties within the same group. We can therefore state as a conclusion, both from a chemical and a physical point of view, that there are practically no differences, so far as the food value is concerned, between the white shelled . brown shelled eggs."

Let There Be Light. Light in the poultry house is an ab-sointe necessity, and the inmates must have it to be in a healthy and cheerful condition. Fowls will not thrive in a dark and cheerless place any more than plants will .- Maine Farmer.

IE BRADFIELD REGULATOR CO.



be stem or butt end of the tuber.

the stem or butt end of the tuber. The eyes on the seed end are the first to germinate, and hence are especially important when an early crop is desired.

Exposing unaprouted tubers in a warm place before planting hastens growth, but if continued until sprouts form (which are rubted off), the yield may be considerably reduced.

It is better to place in a hill one large piece than several very small ones of the same aggregate weight.

The net yield of manble potatoes increases with every increase in the size of seed piece from one eye to the half potato. The half potatio affords a larger net mindle crop than the whole potato on account of the excessive amount of seed required in planting entire tubers. red required in planting entire tubers.

The next session of the farmers' sa-tional congress will meet at Boston Oct. 8, 4, 5 and 6. W. D. Hoard of Fort At-

REARING TURKEYS.

BAKING

tean Idea Right to Start With, Turkeys are generally considered to be the most delicate of poultry and very difficult to rear, says an English exchange, but Mr. W. B. Tegetmeler who is a very great authority in such matters, maintains that the treatment of turkeys is generally misunderstood and that the cause of delicacy and mortality among them is generally that they are reared on the tainted ground of farmyards or in their imme diate vicinity. In America, where tur-keys are allowed to roam as they will and roost in trees, the hens make their own nests and generally, unless the season be exceptionally unfavorable, bring every chick to maturity.

Of course the chicks are sometimes attacked by rats and other vermin, but the number of birds killed in this manner is comparatively insignificant.

The plan of rearing turkeys absolute ly unprotected has been followed by Sir Walter Gilby at Elsenham, Essex, for some years past and with the greatest success. The birds excel both n plumpuess and in flavor, and the huge amount of meat on them is probably due to the fact that they use their wings in flying, and therefore the muscles of the breast, which work the wings, are properly developed. At Elsenham the turkeys are fed with the pheasants and every morning come up to the hall to receive the house scraps, with the result that they are finer, better birds than those fattened in captiv-

closely resembles Rural New Yorker, of which it is a seedling, but is more uniform and yields practically no small tubers, also that it is of better quality Mr. Tegetmeler advised all who car do so to allow their turkeys to live an entirely natural life in the open, not and a few days later, was borne out by shut in farmyards or even in a field near the house. Reared in the same way as pheasants, they find the greater part of their food for themselves, commonly grown and very popular po-tate in the northern part of the state, and under natural conditions they thrive far better than it is possible for them to do on ground which has be is pronounced a fine variety. This was come tainted, as a farmyard must be one of the heaviest yielders of 1898. It even though an immensity of care and trouble be expended upon them. is a main crop variety of good size and fine appearance; vines dark green, very

WHEN CHICKENS THRIVE.

out, strong and vigorous. The crop was practically all salable. Yield, 869 tush-Must Be Fed. White Beauty (101) is described as a medium late variety of introduction. It belongs to the Burbank and White Star Experiments by the New York agricultural experiment station show that chickens do not thrive so well on grain class. The vines were very strong and heavy, dark green, standing 3½ feet high and 8 feet broad. The yield was at feeding alone as on some form of animal food. The same is true of ducks The addition of animal nitrogen to the the rate of 897 bushels per acre and rations makes up for the grasshoppers and earth worms of natural poultry Fillbacket, a white skinned main crop life. The tests demonstrated that poulvariety, oblong, somewhat flattened and try fed on animal and vegetable food gained weight and matured more rapusually smooth, proved a heavy yielder idly than others and at a smaller coci at the station, producing at the rate of 346 bushels per acre, a very small per of food. In one experiment it took the cent of which were small. The vines meat meal ration chicks 47 days to were strong, erect and vigorous. Seventeen varieties giving the largest average yield in order of productiveness gain their first pound and 35 days to gain the second. The grain fed birds needed 61 days for their first pound and 38 days more for their second.

With the ducks the results of the tests with the contrasted rations were equally convincing. Both lots in this instance were fed with green alfalfa in addition to other foods and had plentiful supplies of sand and coarse grit. The animal med birds soon began to develop rapidly and evenly, but the grain fed ducklings became thin week of the contrasted feeding. The loam; Seneca Beauty is a line pink variety; Harvest Queen, desirable; Sir Walter Raleigh, very choice; Wood-hull's Beedling, White Rose and Wil-son's First Choice, fair croppers; Dew-drop Rose, a fine Rose type; Breck's Chance, large red; Prolific Rose, mesurvivors then were fed on the ment rations and made rapid gains, but they never overcame the disadvantage of

Superior Eggs. Egg raising is carried on now not only far more extensively, but far more sys-tematically than ever before. The breeds of chickens everywhere have been improved, though more in some parts of the country than in others, and the improvement everywhere continues. There are many great chicken farms and many chicken raisers that confine themselves to special breeds. The common stock also has been improved everywhere more or less.

Without regard to their actual price at the moment, commercial eggs may vary in value as much as 5 cents a dozen. Handsome, large, selected, high grade eggs may be worth h cents a dozen more than ordinary eggs. These superior eggs may be the proeds of stock, but the eggs of comparatively ordinary stock packed with care might bring half a cent or a with care might bring half a cent or a cent more a dozen than the same eggs packed as they run. More and more egg raisers give attention to such do-tails nowadays, culling out eggs that are dirty or discolored and packing them by themselves to sell, though they may be as big and heavy and good as the others, at less than regu good as the others, at less than regular price, but more than making this good by the added price obtained for the others, due in great measure to their aignificant of appearance. More handsome eggs may be seen for sule in retail stores now than ever before.—New York Sun.

Positry Raising Taught in College.
At the Rhode Island College of Agriculture and Mechanical Arts at Kingston a special course in poultry culture began on Jan. 9 and continued for four

Greensboro Tobacco Market ROR HIGH PRICES.

Sold over 5,000,000 pounds last year for an average of \$7.57 per 100

This is the highest average made by any market in predment North Over \$1,260.00 paid out daily to farmers for tobacco during the past

It is the best market in the State for the farmer.

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Every large firm in the United States and a number of foreign firms are

represented by our buyers.

Tobacco centre, manufacturing centre, trade centre, railroad centre. educational centre.

Our own manufacturers have a large capacity and are increasing their trade daily and must have tobacco.

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We want more tobacco and must have it if high averages will bring it.

Try us with your next load and be convinced of our merit.

Greensboro Tobacco Association.

INSURANCE!

1 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.

\$ 8888888888888888888888888

HAULING CROPS.

What It Costs to Transport Produce An inquiry of this kind was made in November, 1895, by the United States department of agriculture through its office of road inquiry Ten thousand circulars were sent out to farmers in all parts of the United States saking for information in these various particulars. Replies were received from over 1,200 counties distributed through

out the United States, and the results were carefully compiled. The weight of loads hauled varied between an average of 2,409 pounds in the prairie states and an average of 1,897 in the cotton states, the average weight and uneven in size. The latter would of farm loads for the whole country be meglect the troughs of apparently wholesome food to chase a stray grass-hopper or fly, while the meat fed ducks lay lazily and philosophically in the sun and paid no attention to bee or beetle. The meat fed ducks all lived and thrived, but one-third of the others at thrived, but one-third of the others at the lived to be \$3.02. It was as high as found to be \$3.02. It was as high as 35.12 in the Pacific coast and moun-

tain states, due to long bauls, and as ern states, which are more de their bad start.—St. Louis Post-Dis-tied and where railroads are numerous patch. of hauling a ton a distance of one n was 25 cents, it being 22 cents in the prairie and Pacific coast and mountain states and rising as high as 82 cents in the eastern states.

Atmospheric Humidity.

The wet bulb thermometer for deterprining moisture in the air is made and used as follows: Provide two ther mometers and tie a bit of the thinnes muslin peatly around the bulb of onof these and keep it soaked with ter. Lift this thermometer out of the water and whirl it briskly through the

air for two minutes if the air is very dry and for three or four minutes the air is very moist. Read it quickly the air is very moist. Read it quickly, and it gives the temperature of a thin layer of water evaporated under the influence of the wind produced by the whirling. The dew point of the air in which the thermometer is whirled is about as far below the wet built as that the below the wet built as this is below the temperature of the dry bulb similarly whiried and read rapidly. The two thermometers may be hung side by side on a short piece of string for convenience, and this is then called the "sling psychrometer."—

Self Control. There is no surer safeguard ag all degrees of mental soundness a habit of self control. As men of c lood may fall dead in me es, oft repeated, unse faculties. Machinery ly set tends to jar itself to



NEW Wheeler & Wilson Sewing Machine

Rotary Motion and Balf Bearings Easy Running, Quiet, Rapid, and Durable.

Purchasers say: It runs as light as a feather." Great improvement over anything so far."

All sizes and styles of sewing ma

The best machine on earth on EIDA STORE CO. J. M. HAYES, Agent.



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