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BAD ROADS COST MILLIONS OF DOLLARS



The illustration shows the type of mud road that the recent Peoria (Ill.) convention want eliminated.

GOOD ROADS



Most Modern Methods Urged for Financing Construction and Maintenance of Thoroughfares.

Realizing the need for the most modern methods of financing the construction and maintenance of public roads in the United States Lee McClung, treasurer of the United States, has accepted an invitation to preside over the finance section of the American Road congress.

In an interview just made public Mr. McClung calls attention to the urgent need for the introduction of reforms in the management of road finances.

"My observations," said Treasurer McClung, "lead me to believe that in comparatively few instances in the same care taken of funds for road improvement as is taken by financial institutions for private enterprises.

The same care and judgment displayed by bankers in making investments should be shown by state and local highway departments in the expenditure of public moneys for the improvement and maintenance of roads.

Legislation and regulation should be urged in each state as to provide for the levying of road revenues on carefully prepared estimates, for the introduction of simple yet thorough systems of accounting and cost keeping for a system of regulating bond issues which would insure economy and wise business management.

"As one of the possibilities worth considering I might simply refer to the difference between the sinking fund method and the serial bond method as applied to bond issue—and their relative merits."

Mr. McClung said that he was very much gratified to note the activities of the various state bankers associations in the good road movement. He believes that the financiers of the country have a great deal to do with shaping the road movement along the right lines and he expresses the hope that every state bankers association will have its representatives at the conference on road finances which will be held at the American Road congress.

CAUSE OF WILT IN APPLES Skin is Rough and Porous, and Not Covered With Coat of Wax as Other Varieties Are.

Ever since russet apples have been grown, says the Rural New Yorker, they have the fault of wilting in storage. It is constitutional with them. Their skin is rough and porous, and not smooth and covered with a coat of wax, as all other kinds are. If anyone will scrape the surface of an ordinary apple with a knife he can easily see that a white wax is gathered on the blade. In some cases it is very noticeable and may be gathered into a little ball.

This wax may be made to shine by rubbing the apple skin, and this is often done by retail fruit dealers and exhibitors at fairs, to enhance their beauty. But it lessens their keeping quality, because of taking off some of nature's protective covering. The russets have almost none of it, and therefore their internal moisture or juices easily pass out. The way to prevent the wilting is by storing the apples in a very damp place. But it must be cool as well, or the apples will ripen and rot.

Split Log Drag. The split log drag is by far the most important implement yet devised for maintenance of earth roads. The drag, besides leveling out the rough places in the road, packs the material of the surface and in reality converts it into a layer of brick which with each successive use of the tool becomes thicker and therefore resists the traffic to a greater degree.

Sheep Worthy of Good Care. The common opinion that sheep should be kept as scavengers, and that they will thrive best on the farm that is too poor for other kinds of live stock, is twin brother to the opinion that white beans thrive best on a poor, thin soil.

Matter of Painting. If the painting of the farm buildings has been neglected remember that weather-checks mean decay, and that painting is not a matter of looks alone, but of profit or loss.

BAD ROADS CAUSE BIG WASTE

Declares That \$35,000 Be Lost in Illinois Unless Antiquated Methods Are Changed.

Bankers, farmers, automobilists, educators, labor and business men from all over Illinois met at Peoria the other day and approved unanimously a general program for "pulling Illinois out of the mud."

After three rousing meetings they prepared a resolution to the next state legislature setting out the lines on which they think state legislation should be based.

The Illinois highway improvement commission, which called the meeting, declared \$5,000,000 will be wasted in Illinois during the next twenty years unless the present antiquated methods are changed.

To prevent this waste the conference urges the creation of a small state railway commission to replace the present array of local commissions, more active assistance by the state for the trunk lines, and more active insistence by the public on good roads.

It is proposed that prisoners in the state penitentiaries be used not only for the preparation of road building materials, as at present, but, if possible, for actual construction work through the state.

It is proposed to follow the Colorado method, using the honor system, and sending the gangs out with guards.

The legislation recommended by the conference would provide: State and county co-operation in the construction and maintenance of main highways and bridges.

A nonpolitical state highway commission of at least three competent members, who shall devote their entire time to their duties.

Improvement in such counties as elect to come under the provisions of the law, of main, continuous inter-county highways connecting county seats and other important cities, principally at the expense of the state and county; such roads to be selected and improved by county authorities, subject to the approval of the state highway commission and after improvement to be turned over to the state for perpetual maintenance.

Improvement, maintenance, and control of remaining roads (about 80 per cent of the whole) under supervision of county and township authorities.

Effective measures to guarantee maintenance after roads are once constructed.

Use of the state automobile tax, together with such other funds as the legislature may appropriate, in the improvement of highways.

Use of state prisoners—under state direction—on an honor system, in actual road work when practicable.

Payment of all road taxes in cash. Compulsory dragging of all earth roads.

Proper construction and guarding of crossings at railroads and intersection of street and highways.

The "platform" of the conference includes resolutions in favor of federal aid for postroads and national highways, and calls attention of Illinois congressmen to this position. It was devised by the committee headed by W. G. Edens of the Central Trust company, president of the association.

Jesse Taylor of Jamestown, O., told the convention the difference between hauling coal in Belgium and America, 13 cents a mile, meant a waste of \$137,500,000 in this year's farm crops alone.

"Think about it," he said, "and then do something, work for local aid and state and federal aid. Joe Cannon believes in federal aid now, because he's heard from home, and if he can be rescued by the folks at home you ought to do something for the other sinners."

The farmers' viewpoint was presented by A. H. Groat, head of the Illinois Farmers' Institute; labor's, by Edwin R. Wright, state federation president; the bankers', by B. F. Harris and John D. Phillips, old and new heads of the state association, and H. E. Bradt, their good roads chairman.

Pruning Grapes in Fall. Grapes are pruned in the fall; usually a half to two-thirds of the new growth is taken off—depending on the system of training that is used—and in northern states the plants are laid on the ground and covered with earth in much the same way as raspberries.

Fall Road Work. How about the fall road work? There is no better time to fix dirt roads than in the fall. You will be using the highway more between now and spring than during the next 12 months.

Use the Fanning Mill. A good job one of these dry days of autumn is to run your seed oats and wheat through the fanning mill. In fact no seed should be planted until it has passed through the fanning mill.

VALUE OF THE LITTLE BIRDS

They Labor Incessantly in Fields, Destroying Many Injurious and Destructive Insects.

The birds are the best friends that the farmer has. Why? Because they labor daily in the farmers' fields, destroying the insects that destroy or feed upon the tender plants of the fields. Have you a friend that will labor in your fields daily destroying these insects just for his board and clothing? No, indeed; you cannot place your eye upon but one friend that will do this for you.

That is the little birds which are being slaughtered by you in large numbers. Why do you not try to protect these friends who are so faithful to you, when they ask you for no pay for services rendered you in your fields, destroying insects that injure your plants, simply because you have not stopped to think over the matter as you ought to. Do you not realize that they are worth hundreds of times more to you as insect destroyers than their flesh is worth to you in a bird pie or in some other way?

Farmers, it is time to wake up to the fact that these little bird friends must have better protection. Why? Because they are needed more and more every year. As people increase and the clearing of more lands increases, the insects are bound to increase very rapidly, because they feed mostly from the farmers' fields. As insects increase, why should not the birds increase also? Simply because they haven't had the protection that they ought to have had. Some of the species of birds that used to be found in large numbers are now very seldom found at all, simply because they have not received any mercy from the hunter, and because the laws are not strict enough on this one special thing.

Every farmer should feel it his duty to urge his lawmaker to do all in his power to pass a law that would give his little friends in feathers better protection. A law should be passed in states having no such law, prohibiting the killing of these birds under a heavy penalty and imprisonment for violation thereof. If this were done, you would see a great improvement in crops and fewer insects. Good enforcement depends largely on farmers.

When handled from birth, they are very easily broken and at three years old will be ready to ride or drive. Thoroughbred Shetlands are very easily kept. They require but little grain and will do very well on rocky hill-sides where there is fair pastureage.

They need shelter in bad weather, of course, but an open shed, wind-tight on three sides, leaving the south open, will be all that is necessary.

A good wire fence is required to keep them in bounds, as Shetlands are extremely curious and somewhat restless, and will manage to get over, under or through the average farm fence.

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MACHINE TO KILL SPROUTS Apparatus Invented by Missouri Man to Destroy Second Growth in Very Effective Manner.

The Scientific American, in describing a vehicle adapted for use on land cleared of timber, says: This invention pertains to agricultural machines, and the aim is to provide a growth destroyer more especially designed for use on land that has been cleared of timber, to destroy the sprouts or returning second growth in a very simple and effective manner.



Sprouts or Growth Destroyer.

For this purpose use is made of a wheeled vehicle adapted to be moved over the ground and provided with a revolving beater, having flexible arms adapted to forcibly strike and cut off the growth at or near the ground surface. The illustration shows a sectional side elevation of the apparatus.

Effect of One-Year Rentals. It is just as impossible to maintain soil fertility under a one year renting system in farm management as it is for water to run uphill. In the first case it is against human nature to do anything but skin the land to a finish. In the second it is counter to the law of gravity, the one being quite as much in force as the other.

Increasing Butter Fat Content. Butter fat is not fed into the milk, but it gets there through right breeding. Rich feed will improve the flow of milk, but not the quality.

GARDEN and FARM NOTES. Rush the plowing. Prepare for the fall rains. The onion thrips is a bad pest. Slack fence wire is slack farming. Rhubarb is an easy crop to grow. The creep of potato bugs was light this year.

Don't burn that old straw pile to get it out of the way. Potatoes infested with rot are a poor holding proposition. Joint grass may be killed out in the best fields by clean cultivation.

As a rule, we do not make as good use of our pasture lands as we might. It is important that an alfalfa field where seed is grown be free of weeds. It will pay to batter the cracks in the barn before coming of cold weather.

The state and county agricultural fairs are of value to every farmer in the country. If the pasture is not available, silage or a good soiling crop will be absolutely indispensable.

Before you fill your stove silo it should be painted on the inside with coal tar thinned with gasoline. Improvement in the quality and condition of wheat is not the only benefit derived from stacking the crop.

Farmers who do not have silos should not let a large percentage of the corn crop's value go to waste. The potato digger works best in a loose, mellow soil and the ground should be free of stones and stumps.

After the manure is made, the sooner it is applied on the land the more value the crops will get out of it. The cutting of an alfalfa seed crop is usually done with an ordinary mower, which may or may not have a bunching attachment.

THE CHILDREN



RAISING PONIES PAYS WELL

Thoroughbred Shetlands Are Always in Demand and Exceptionally Fine Specimens Scarce.

(By R. G. WEATHERSTONE.) We know of no better way for a boy to start in business than by raising Shetland ponies. A very well-bred mare can be bought for \$125 to \$200, the latter figure being for a pure-bred.

Starting with a mare in foal, a boy should, in the course of five years, find himself in possession of enough animals to start him on the highway road to success.

It is always best to buy thoroughbreds for breeding, but if crosses are used with a thoroughbred stallion one can in time breed up to a very high standard. Shetlands are very easily kept. They require but little grain and will do very well on rocky hill-sides where there is fair pastureage.

They need shelter in bad weather, of course, but an open shed, wind-tight on three sides, leaving the south open, will be all that is necessary.

A good wire fence is required to keep them in bounds, as Shetlands are extremely curious and somewhat restless, and will manage to get over, under or through the average farm fence.

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WEIGHING GAME IS POPULAR New Pastime in France Meeting With Much Favor—Much Skill Required of Player.

A unique game in which the degree of skill in estimating the weight of a number of balls by holding them in the hand one at a time constitutes the ability of each player, is meeting with much favor in France. The accessories are the balance device, shown in the illustration, and two



Playing New French Game.

sets of balls, all alike in size, varying but slightly in weight. In the balance is locked in place in the same manner as the ordinary weighing balance, and each player takes a set of balls and proceeds to place them, one at a time, in the depressions in the respective pans. The object of each player is to place the heaviest of the balls in the depressions farthest from the center of the balance. After the balls are in place, the beam is released and a hand on top of the balance registers the winner and the number of points his side outweighs or outbalances that of his competitor. Thus the player who can estimate most accurately the comparative weights of the balls by simply weighing them in his hands wins the game.

WHITTIER'S DOG QUITE WISE Canine Gave Evidence of Much Delight When Visiting Lady Sang Ballad, "Robin Adair."

During one of the last birthday celebrations of the poet Whittier he was visited by a celebrated singer. The lady was asked to sing, and, seating herself at the piano she began the beautiful ballad of "Robin Adair." She had hardly begun before Mr. Whittier's pet dog came into the room and, seating himself by her side, watched her as though fascinated, listening with delight unusual in an animal. When she had finished he came and put his paw very gently into her hand and licked her cheek.

"Robin takes that as a tribute to himself," said Mr. Whittier. "He also is 'Robin Adair.'"

The dog, hearing his own name, evidently considered that he was the hero of the song. From that moment, during the lady's visit he was her devoted attendant. He kept by her side while she was indoors, and when she went away he carried her bag in his mouth to the gate and watched her departure with every evidence of distress.

Naturally. Tommy had been given two new pennies—one for candy and the other for Sunday school. By and by he came in from play and said: "Mamma, I lost one of my pennies."

"Which one, dear?" she asked. "The Sunday school one," he replied.

Went Broke Early. "Say, Jimmy," said one small boy to another, "lend me a cent, will you?" "Ain't you got no money?" asked Jimmy.

"No," replied the other. "I got up so early that I spent it all before breakfast."

Easiest Way. Teacher—If you were getting dinner for six people and had but five potatoes, how would you divide them to give each an equal share? Small Sadie—'d mash 'em.

W.L. DOUGLAS SHOES

\$3.00 \$3.50 \$4.00 \$4.50 AND \$5.00

FOR MEN AND WOMEN

Boys wear W. L. Douglas \$2.00, \$2.50 & \$3.00 School Shoes. Because our pairs will positively outwear ten pairs of ordinary shoes, same as the men's shoes.

W. L. Douglas makes and sells more \$3.00, \$3.50 & \$4.00 shoes than any other manufacturer in the world.

THE STANDARD OF QUALITY FOR OVER 30 YEARS.

The workmanship which has made W. L. Douglas shoes famous the world over is maintained in every pair.

Ask your dealer to show you W. L. Douglas latest fashions for fall and winter wear, notice the short uppers which make the foot look smaller, points in a shoe particularly desired by young men. Also the convenient styles which have made W. L. Douglas shoes a household word everywhere.

If you could visit W. L. Douglas large factories at Brockton, Mass., and see for yourself how carefully W. L. Douglas shoes are made, you would then understand why they are warranted to fit better, look better, hold their shape and wear longer than any other make for the price.

CAUTION.—To protect you against inferior shoes, W. L. Douglas stamps his name on the bottom. Look for the name. Beware of substitutes. W. L. Douglas shoes are sold in 78 own stores and shoe dealers everywhere. No matter where you live, they are within your reach. If your dealer cannot supply you, write direct to factory for catalog showing how to order by mail. Shoes sent everywhere, delivery charges prepaid. W. L. Douglas, Brockton, Mass.

Increased Comfort for Hog. A hog's habit of scratching itself against a post has led to the invention of an automatic disinfectant for animals, which are sprayed with a fluid as they rub against a supporting column.

Wear Special Eyeglasses. Small eyeglasses, fitting closely, and with flesh-colored nose pieces, are made for actors needing them but who, in deference to the parts they play, do not wish to wear the usual sized lenses.

Stops Backache

Sloan's Liniment is a splendid remedy for backache, stiff joints, rheumatism, neuralgia and sciatica. You don't need to rub it in—just laid on lightly it gives comfort and ease at once.

Best for Pain and Swelling. Mr. Geo. Buchanan, of Welch, Okla., writes—"I have used your Liniment for the past ten years for pain in back and stiffness and find it the best Liniment I ever tried. I recommend it to anyone for pains of any kind."

SLOAN'S LINIMENT

is good for sprains, strains, bruises, cramp or soreness of the muscles, and all affections of the throat and chest.

Relieved Severe Pain in Shoulders. Mr. J. Underwood, of 2000 Warren Ave., Chicago, Ill., writes—"I am a piano polisher by occupation, and since last September have suffered with severe pain in both shoulders. I could not rest night or day. One of my friends told me about your Liniment. Three applications completely cured me and I will never be without it."

Price 25c, 50c, and \$1.00 at All Dealers. Send for Sloan's free booklet on horses.

Address Dr. Earl S. Sloan, Boston, Mass.



Personal Investigation.

An old woman walked into a bank in Inverness, threw down her deposit-book, and said she wished to draw all her money. Having got it, she retired to a corner of the room and counted it. She then marched up to the teller, and exclaimed: "Ay, that'll Joe, ma man; jist pit it back again! I only wanted to see if it was a'richt!"—Dundee News.

No Maltese Cats in Malta. There are a few of the so-called Maltese terriers in Malta, but they are not of pure blood, and the puppies which the street hawkers offer for sale to tourists are more or less mongrel, with a strain of the old breed. The Maltese cat does not exist in Malta; at least not one has been seen here of the color called Maltese in the United States.

Maintenance of a Microbe. A country school teacher was cashing her monthly check at the bank. The teller apologized for the filthy condition of the bills, saying, "I hope you're not afraid of microbes." "Not a bit of it," the schoolmarm replied. "I'm sure no microbes could live on my salary."—Lippincott's.

Cross as a Signature. The cross was formerly a part of all signatures, made as an evidence of the subscriber's faith and not of inability to write, as it is now.

Money in Butterfly Farm. An Englishman operating a butterfly farm is said to sell to museum and collectors upward of 50,000 specimens yearly. He obtains as high as \$50 for exceptionally fine ones, and his net income is said to be fully \$2,500.

"DEAD SHOT" DR. PEERY'S VERMIFUGE FOR WORMS

ROMAN EYE BALSAM FOR INFLAMED EYELIDS

Prepared by WRIGHT'S INDIAN VEGETABLE FILLS CO. NEW YORK

IMPORTANT!

For the protection of the public we have brought suit against a firm of dentists near our office, to prevent them from placing our name in large white letters on the front of their building. It has taken us 25 years of conscientious, painstaking and skillful work to make THE WISE DENTAL CO. known throughout the North-west as absolutely reliable and at the top of the profession. We

will not allow our good name to be jeopardized by men who have no connection with this office. We have only ONE office, and that is in the FALLING BUILDING, southeast corner Third and Washington streets. The entrance is on Third St., and an elevator carries passengers to our floor. Do not be misled, nor forget these important instructions.

DR. W. A. WISE. In personal attendance. Ask to see him, so that you can be sure you are in the right place.

Our Interchangeable Facing, a "Wise" Idea. Our Bridge Work has been brought to the highest state of perfection. The teeth on this bridge are interchangeable at will without removing from the mouth.

We Give a 15-Year Guarantee. 25 Yrs' Active Practice in Portland.

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