DIRT ROAD PROBLEM

Good Results Can be Obtained Through Drainage System.

STAGNANT WATER AN ENEMY.

It Is One of the Chief Evils of Highways of Earth-Good Road Work of en Illinois Institution-Bad Drainage

In the movement for good roads to have practical results it is well to recognize the fact that over large sections of the country rock or gravel roads are, for local and economic ceasons, unattainable and even unnecessary. Dirt roads will prevail in the more strictly rural districts for many years to come, possibly until aeroplanes and dirigible balloous take the place of the good old farm wagon.

Therefore it will be well to look around and try to learn from the experience of others how such roads have been made in other countries sufficient for all the needs of rural life, what has been found to be the chief enemy to overcome and how the conquest bus been effected.

The one great enemy of dirt roads is stagnant water, which, after heavy rains, and especially in clay soils, is unable to get away. Realizing the solvent properties of water, it is easy to understand how destructive its continued presence is to the solidity of a dirt road and therefore how necessary is its removal.

It is not only the surface water of heavy rains or melting snow that has to be got rid of. The action of what science knows as "capillarity," the constant rising of water from great depths toward the surface, has also to be contended with. That this natural process is always going on is well understood, though its causes and methods of action still form matter for debate. To catch and control this water | ment, liquid asphalthum, road oil, carcoming thus and to establish what is bolic disinfecting powder, sulphate of known as a water plane some three or copper and oil of wintergreen. The four feet below the surface of the sulphate of copper is used to prevent ground, where it can do the most the olls from becoming ignited, and good to vegetation, and, as a sort of the wintergreen counteracts the odor side issue, the least harm to the roads, of the others. There is nothing dishas been sought for and found in the agreeable about the smell. A curious modern scientific system of land drain-

Some time ago the use of brush filled drains was very effective in a section of Illinois where the soil is much of the nature of the Kansas gumbo. An institution which owned a farm of 400



HOLLER WITH "EPUDS" TO COMPACT EARTH

[From Good Roads Magazine, New York.] acres, along one side of which ran a much used for general traffic and which that institution had agreed to keep in order in ileu of paying the road rates; found that a considerable amount of the time of the farm teams was taken up in hauling wagons and buggles of bemired travelers out of the slough which constituted about a quarter of a mile of this road where it ran through a ravine with high old osage orange bedges on each side, which had not been trimmed for twenty years. It naw occu the custom to administer doses of gravel and of refuse from a coal mine every now and then, but the road incontinently swallowed them up and asked for more. Old country experience suggested drains, and as no pipe or tile was to be obtained the old hedges were cut down to a height of three feet, and ditches eighteen inches wide and from | ized, and Mr. Burnes was elected manthree to four feet deep were dug on each side the road and filled with the brush, well stamped in and topped up with a good depth of soil. The roadbed was nicely rounded up, and in a very short time the ancient morass gained the reputation of being one of development of the United Kingdom the best bits of roads in the neighbor-

The tiles and pipes used for this drainage work are made of a porous | bill provides for special motor roads to clay, unglazed, the water entering them | be exclusively or chiefly for the use of not alone and only, but percolating through their whole length. This can be easily proved by sealing up both ends of one of them and burying it The board may acquire land for this three or four feet in any damp place. In a week or two when dug up it will and may also acquire land adjacent be found full of water. Of course when a proper and fairly even fall from the middle of the road, which (about two inches to a hundred feet) land they may sell, lease or control, the is given to a drain made of these pipes | increment therefrom being used for it will carry the water to any distance | the maintenance or construction of this desired. The bottom of a drain must be kept level and the pipes laid so carefully together that no earth can get in between any two of them.

Since the general desire seems to be for good roads without prejudice as to what means or materials are used to produce them it would be well for is a daily necessity. some of our farmer readers to try the effect of a few of these drainpipes where they can be produced, brush where no pipes are to be bad, on their own private roads where water is too

Notice of Final Settlement. Notice of Final Settlement.

Notice is hereby given to all persons interested in the estate of William C. Armstrong, deceased, that M. R. Elliott, the administrator of said estate, has made and filed in the office of the clerk of the County Court his final accounting of his administration of said estate and the County Court has set Tuesday, the 5th day of July 1910, at the County Court room in Prineviller, Oregon, as the time and place for heating and sottling said final accounting, at which said time and place any person interested in said estate may appear and object to said final accounting.

said final accounting.

Dated this 2nd day of June, 1910.

M. J. Administrator of the estate of William C.

OUR HIGHWAYS THE WORST.

Englishman Declares That He Found No Such Poor Ones Elsewhere.

While on a visit to this country recently Robert H. Jackson of Walburn Lodge, London, had during an interview occasion to criticise the condition of our highways. Mr. Jackson said: "No country I have visited has such poor roads as the United States, This is surprising to me, for if there is any improvement a nation can make that pays for itself it is the building of first class highways. I spent several weeks in Indiana-at Terre Hauteand as I am interested largely in farming I made frequent trips through the surrounding country. Some of the roads were six inches deep in dust, and in the winter, I doubt not, this dust becomes sludge. How the farmers can get to market with their crops is beyond me. Your roads wherever I have been are generally very bad. In England we have excellent roads, as in other countries of Europe. "Road building and road improve-

ment are done through the township unit system. Nearly every township has one or more steam rollers, and the cost of improving the roads or building new ones is borne by the property owners in proportion to the valuation of their holdings. Most of the modern roads of England have a foundation of brick-not of ordinary brick, but brick of large size. Upon this foundation are placed several inches of soil and on top of this soil bluestone, which is ground into the soll by means of the steam rollers. This makes a first class durable road that will keep in good condition during all seasons of the year. Over here most of the roads are made by simply turning the turf and grading. At least that is how they im-

NEW MODEL HIGHWAY.

an Example For Road Builders.

A modern road is the Hummelstown pike, near Harrisburg, Pa. It is made of a mixture of water gas tar, ceeffect of the mixture is its disinfecting power. During the past year there was not a single contagious disease in that section. The cost of applying the mixture is 51/2 cents a square yard. The cement holds the dirt together like stone, and the oils make it waterproof, so that it readily sheds water. The road is never muddy and, unlike a tar road, does not become slippery in winter time. Frost has no effect on it at all, as the mixture will not freeze. The cost of applying is very small, as it is sprinkled on like water. That the method and the mixture are perfect successes has been shown the past summer. Despite the heavy automobile and wagon traffic, the road is perfectly smooth and very hard, and it has met the test in every way.

UNIQUE GOOD ROADS MOVE.

Rural Carrier In Brenham, Tex., Forms an Association.

Burnes, carrier route No. 9, from Brenham, Tex., to Independence, is a strong good roads advocate and has some original ideas about the best way to improve the

Some time ago he started an independent movement to get the people along his route to help him keep the road in good condition and asked them to form an organization, to be known as the Good Roads association of R. F. D., No. 9, and to contribute monthly dues to such an organization to maintain a team to work on this road, dragging it with a split log drag or doing such other work on it as could be done compensation, to superintend the

He sent out circulars to all the people along his route, setting forth his plans, and asked them to join the association.

On one occasion he met a large number that live along this route at Prairie Hill. The association was organager, secretary and treasurer and F. W. Quebe and Carl Marcus directors.

English Highway Policy.

Two points in the recently proposed British bill to provide for the economic and the improvement of the roads therein are worthy of notice in the United States. The program of the motorcars, the road board having authority to improve existing roads or to construct new roads for that purpose. purpose by right of eminent domain thereto for a width 220 yards distant

Some Good Roads Pointers. Good roads mean as much as good crops to the farmers.

If macadam roads are to be main. tained at their best, the sprinkling cart The longer the delay in building good

roads the greater the cost. Until produce is hauled to market it

isn't really produced. If the road is poor, good horses and

good vehicles count for little.

A Whole Section

640 Acres cultivation; New York to sell a mine. He had a good one and good introductions and be put in grain; two big springs sufficent to irrigate 30 acres; all under he was presented to the manager and fence; fair buildings; small fruits; cashier and vouched for, four miles from Princylle.

\$12.50 per Acre for 10 days here," said his friend. "I have fixed M. E. BRINK, Princeville, Oregon It with everybody."

e-The --

Wanting In Grit. At one of the fashionable seaside resorts on a beautiful evening last summer a handsome couple promenaded the beach until they were tired and then threw themselves on the sand to rest. The young woman watched the waves, while the young man toyed with the moonlit sand, tossing it from hand to hand. "Reginald, dear, you puckered up

your lips just then as if you were going to kiss me," said the beautiful creature languorously as she glanced at her companion. "I intended to," replied Reginald

besitatingly, "but I seem to have got some sand in my mouth."

"For heaven's sake, swallow it," exclaimed the young lady. "You need it badly in your system!"

It Pays. It pays to wear a smiling face And laugh our troubles down, For all our little trials wait

Our laughter or our frown Beneath the magic of a smile Our doubts will fade away As melts the frost in early spring Beneath the sunny ray. It pays to make a worthy cause

By making it our own,
To give the current of our lives
A true and noble tone. It pays to comfort heavy hearts Oppressed with dull despair And leave in sorrow darkened lines A gleam of brightness there. -Fannie E. Emmia

A Bridal Tour. At a fashionable wedding in a southern city the contracting parties were a wealthy widower and a handsome young lady, and a faithful old servant who had lived with the first wife all her married life was reporting the festivities confidentially the next morning to a neighbor.

When she fluished a fellow servant asked, "Is he going to take a bridal

The old woman looked startled and then, glancing around to see that no one was near, whispered, "Well, I don't know ez he will take a bridle to her if she gets cantankerous, but be sure did take a strap to the other one."

A Tragedy at the Parsonage.

A present of a pair of chickens to a country parsonage where there were a large family and a small income was an event, and the youngest two children (who were usually put to bed with a simple meal) were promised a share in the family treat; but, unfortunately, two neighboring ministers dropped in, and the children's mother had to compromise with the little people. A promise of candy pacified them to wait until the older people were through.

At the table the chicken was fast disappearing, when the door, which had been suspiciously creaking for some time, was flung wide open. Two faces glared at the visitors, while two childish voices shouted in unison; "Go ahead; that's right! Eat it all up. hogs!"

to see a bird catcher exercise his employment, accompanied him to the field. As soon as he hallooed in Latin:

"There they are!" The birds took the alarm. The sportsman, indignant at the absurdity of the professor, told him of it in very

"My good friend," exclaimed the doctor in great astonishment, "who would have imagined that birds would understand Latin?"

An Injustice.

An order prohibiting gambling among the enlisted men detailed at the West Point Military academy caused, it

would appear, much trouble for cerby this team, he agreeing, without tain of the soldiers there. An old sergeant of a negro regiment who was sent to the post suggested a game of craps soon after his arrival. Other soldiers told him of the rule against gambling and refused to join in the game. "Dis yere ain't right." said the new arrival, "an' Ab'll see de cap'n 'bout it." Upon being admitted to the ly so. commanding officer's room the sergeant said, with some show of heat: "Cap'n. All understand that gamblin'

ain't 'lowed here no mo'. "That's correct," said the officer. "Well, dat's a injustice to enlisted men, sah, 'cause I's got a large family to suppo't."

True Religion.

True religion grows more and more anxious to declare that religion is not something foreign to humanity; that it is simply the fullest utterance of human life; that all human life which is not religious fails below itself .-Phillips Brooks.

First Aid to Illiterates.

Uncle Joe Cannon had an amusing experience with a waiter in a Kansas City botel during his last visit to that city. Being in no mood to select his dinner, he had tossed aside, after a glance, the menu presented to him by his waiter, saying:

"Bring me a good dinner." Incidentally Uncle Joe slipped the man a big tip in advance.

This repost proving satisfactory, the speaker pursued the same plan during the remainder of his stay in Kansas City. As he was leaving the servitor. remarked earnestly as he helped him on with his overcoat:

"I beg your pardon, sir, but when you or any of your friends that ean't read come to Kansas City just ask for

THE TIMID MINER.

Two of His Checks Cashed, He Made Bold With a Third.

A mining man from Mexico came to went to one of the big botels. Here

"You can get anything you want Next day the mining man came down-

stairs and timidly approached the "Reats all how cashier's window. much it costs to live here in New York," he said. "I can't turn around without it costing me something. Can

get some money here."

for \$30 and handed it in. The cashier smiled as he gave him his money. Next day he came around again.



WILL YOU CASH ANOTHER CHECK FOR

dean put out about the way I have to spend money here. Will you cash an other check for me?"

He wrote a check for \$50 and was given the eash. Next day he sailled up to the cashier again. He had sold his mine.

"Son," he said, "am I right in thinkng you will cash any sort of a check

"Certainly," replied the cashier, "Let me have it.' "All right," said the Mexican miner,

"cash that, for I'm in a burry to ge And the cashier fell in a fit when he

000,000.-Saturday Evening Post.

He Got the Rest.

A certain member of Lord Kitchener's staff in India who had been married a few months previously applied for sick leave, which was readily granted. A couple of days afterward Lord Kitchener happened to meet the wife of the officer. She thanked him profusely for allowing her husband to go to the hills and explained that she was now in the midst of packing up. "But there is some mistake," said

Kitchener, "When I gave Captain permission to go to the bills it was so that he might have a rest, and I am going to see that he gets it. If you go his leave will be canceled!"

Perseverance.

The tendency to persevere, to persist n spite of hindrances, discouragements A German university doctor, desiring all things distinguishes the strong soul

Needed Scratching.

They were having trouble in getting i jury to try a case in a county court There had been a good deal of feeling proused, and no one seemed particu larly anxious to put himself on record for either side. One man hesitated a ong time about stating the grounds on which he based his claim of exemption. Finally be said:

"Well, your honor, the truth of the matter is I have the itch!" him off." instantly replied the judge.

"Scratch him off, Mr. Clerk: scratch Lippincott's.

Got His Man.

Some years ago in Egypt General Hunter was at dinner with some friends when one of his orderlies entered the room and said there was a nessenger outside auxious to see him. General Hunter could not leave the table at that moment and told the order

"What shall I do with him, then, sir?" asked the orderly. "Oh, knock him down!" said Hunter

apatiently as he turned to his dinner. Five minutes later the man returned earing obvious marks of the fray. He saluted stiffly and said to the as tonished general. "I had a bit of a job, sir, but I knocked him down at the

The Coming Astronomy. Professor Edward C. Pickering of

Harvard believes the coming astron omy will find at least one large observatory with 100 or 200 assistants and maintaining three stations. Two brain and spinal troubles. Female of these will be observing stations, one in the western part of the United States, the other probably in South Africa. The locations will be selected wholly from climatic conditions, moderately high, from 5,000 to 10,000 feet, in desert regions. Each observ atory will have telescopes and other instruments of the largest size, which will be kept at work throughout the whole of every clear night. The observers will do little in the day, except perhaps on the sun, and will not undertake much of the computation or reductions. This last work will be carried on at a third station, which will be near a large city, where the cost of living and of intellectual labor is low. The photographs will be measured and stored at this station and the results published. The work of all three stations will be carefully organized so as to obtain the greatest result for a given expenditure.

For Sale. Registered Poland China Bear, 6 months old, for sale, Address C. M. Erkins Prineville, Ore. 5-5-tf

Notice of Final Settlement.

Notice is hereby given to all persons interested in the estate of David E. Templeton, deceased, that T. M. Baldwin, the administrator of said estate, has made and filed with the clerk of the County Court bis final accounting of his administration of said estate, and the County Court has set Tuesday, the 5th day of July, 1910, at the County Court room in Prineville, Oregon, as the time and place for hearing and settling said final accounting.

Dated this 2nd day of June, 1910.

T. M. BALDWIN,

Administrator of the estate of David E. rish, deceased

KASPARILLA

This sterling household remedy has long been recognized as the best and safest Blood Purifier, the most successful I get some money here."

"You can." said the cashier, "I am instructed to cash any check you may prescribe to cash any check you may prescribe. The mining man wrote out a check for \$30 and handed it in. The cashier smiled as he gave him his money.

"An am alrest Blood Parifer, the most successful prescription for spring humors and such disorders of the blood as boils, pimples, pustules, blotches, sores and cutaneous cruptions. Kasparilla is admitted to be the best remedy for that lack of energy and the peculiar debility so prevalent during the close of winter and the opening during the close of winter and the opening of spring. For derangements of the digestive organs it is a natural corrective, operating directly upon the liver and alimentary canal, gently but persistently stimulating a healthy activity. Its beneficial influence extends, however, to every portion of the system, aiding in the processes of digestion and assimilation of food promoting a sub-leaves natural. processes of digestion and assimilation of food, promoting a wholesome, natural appetite, correcting sour stomach, bad breath, irregularities of the bowels, constipation and the long list of troubles directly traceable to those unwholesome conditions. Kasparilla dispels drowsiness, headache, backache and despondency due to inactivity of the liver, kidneys and digestive tract. It is a strengthening tonic of the highest value.

THE BEST SPRING MEDICINE HOVT CHEMICAL Co. Portland, Oregon

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Belknap & Edwards Physicians and Surgeons. Ofice Firer Door Sust of Winnes's

Prinoville. 9. H. Rosenberg

Physician and Surgeon (County Physician.) Calle answered promptly day or night Office has doors south of Completon's Drug Stone. Residence corner tot and Main Streets.

E. O. Hydo Physician and Surgeon ANSWERED PROMPTLY DAY OR NIGHT PEPICE ONE DOOR SOUTH OF ADAMSON'S DRUG STORE. Both office an resi-dence telephones.

Orego

W. A. BELL sicked up the check. It was for \$3.- FRANK MENEFEE

Lawyers

G. L. BERNIER Attorney-at-Law

Office next door to Dr. Rosnberg's, Princyllle, Oregon

6. Brink

Lawyer A street, Prinoville,

R. Glliott,

Attorney-at-Law Oregon

WADE HUSTON Surveyor

Homestead locations a specialty

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Dr. Grater and Dr. Coackley solicit cases of paralysis, bronchial, stomach weakness a specialty. Charges reasonable. Office next door to Price Bros. store, Prineville, Or. Office hours: 7 to 12 a.m. 1 to 6

Consultation Free.

p. m. 7 to 9 p. m.

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H. D. STILL Prineville, Oregon

************ Administratrix Notice.

Notice is hereby given, that the undersigned has been appointed by the County Court of the state of Oregon for Crook county, administratrix of the estate of Rolando Parrish, deceased, and all persons having claims against said estate are hereby notified to present the same with proper vouchers to the undersigned at Hay Creek, Crook County, Oregon, within six months from the date of this notice.

Dated May 12, 1910.

MARTIN A. PARRISH.

MARTHA A. PARHISH.
Administratrix of the estate of Rolando P. W. A. Bell, Attorney for estate.



or, Walt McFarland.

Notice. Having sold my business I wish all who owe me to pay all book accounts now due. Pay to me or to my success-

Millinery Clearance Sale

Great reduction on all kinds Tickets will be on sale May 2nd and 9th; of Summer Millinery.

Large assortment to select

Mrs. Estes Corner 2d and Main Streets

PRINEVILLE, OR.

Duluth direct Duluth via Council Bluffs. St. Louis. June 2nd, 17th and 24th; July 5th

Chiengo

Omaha..

Council Bluffs

Kansas City...

St. Joseph.

Sl. Paul....

St. Paul via Council Bluffs.

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September 8th. Ten days provided for the going trip. Stop-overs within limits in either direction. Final return limit three months from date of sale, but not later than October 31st. One way through Califor-

nia \$15.00 additional.

and 22nd; August 3rd; and

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From All Points on

60.00

60.00

63.90

88.00

67.50

67,50

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Beef, Pork, Mutton, Wholesale and Retail

All Kinds of Sausage Nice and Fresh

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Butter and Eggs. Give us a call and we will save you money.

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Horseshoeing, Wood Work, etc., NEATLY AND PROMPTLY DONE WHEN IT IS DONE BY : : :

Robert Moore

Will Satisfaction Be Guaranteed

AUTOMOBILE AND A BALANCE FOR MAINTENANCE Buy a FORD Touring Car

IF YOU HAVE \$1500 TO \$4000 TO INVEST IN AN

With all the equipment on it for \$1050 f. o. b. Portland and invest the balance in real estate and give to charity the difference in maintenance. What you get for \$1050 is a car equal in every way except in weight to \$4000 proposition and a car that will take you 25 miles on one gallon of gasoline.

Equipment-Top, Gas Lamps, Generator, Magneto, Two Side Oil Lamps Tail Lamp, Tube Horn, Wind Shield and Speedometer. Demonstration at your convenience.

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First Class Meals 35c and Up Fresh Oysters and Fish in Season

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W. J. SMELZER, Proprietor

कें प्रधान का का बात है। यह बात का अपने का बात का का बात का का बात का का बात की बात के बात की बात की बात की बात

D. F. STEWART, Vice-Pres STATE BANK NO. 188

C. M. ELKINS, Cashier L. A. BOOTH, Ass't "

CROOK COUNTY BANK PRINEVILLE, OREGON Capital Stock fully paid.

Statement Rendered to State Bank Examiner March 29, 1910:

Loans and Discounts \$109,448.10 Capital stock.
County and other warrants 2.046.96 Surplus
Beal estate and fixtures 7,700.94 Undivided pro
Expenses.
Cash on hand and due from banks \$130,990.78 Undivided profits. \$952,920.02

\$252,220.0

\$36,000,00 5,000,00 6,689,10 204,550,92