

WAYS TO SOLVE DUST PROBLEM

Roads Can Be Made Healthful Without Water.

ARTIFICIAL METHODS USED.

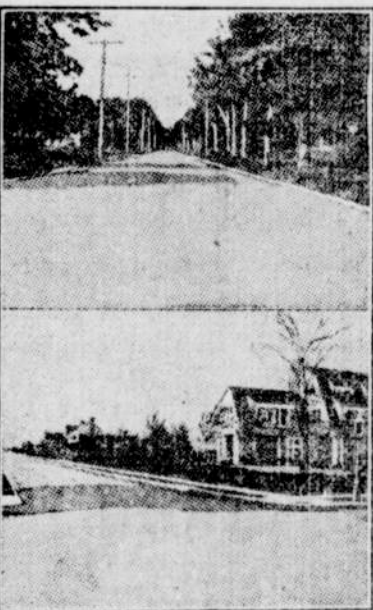
Solvay, Granulated Calcium Chloride and Dustoline Have Been Found to Absorb Moisture From Air and Keep Highways Dustless—Can Be Sprinkled on Roads by "Dry" Method.

At present the science of road building, at least of building what may be called general utility roads, is in an important phase of its development, says Good Roads of New York. The methods that were satisfactory so long as the vehicles passing over the roads were drawn by horses have been found inadequate for the construction of roads capable of withstanding the destructive effects of motor driven vehicles, and new methods are being evolved. Meanwhile the old roads must be adapted as well as possible to the present conditions.

Excepting smoothness of surface, perhaps nothing is more essential to the comfort and well being of those using a road or spending a portion of their time in its immediate vicinity than that it be free from dust.

Various means have been tried in the endeavor to solve the dust problem. In general they may be classed as prevention and suppression, the dividing line being by no means easily drawn, since suppression necessarily implies a measure of prevention. The prevention of the formation of dust is more or less a matter of construction, while suppression is the laying of the dust constantly forming on the surface of roads.

Since the majority of the roads of the country are earth, gravel or water bound macadam one of the chief phases of the dust problem is the laying of dust on these roads. It is generally conceded that water sprinkling, at least by the methods commonly employed, is not practicable for the ma-



TOP—ROAD TREATED WITH CHLORIDE; BOTTOM—ROAD TREATED WITH DUSTOLINE.

[Courtesy Good Roads.]

For such roads on account of the frequent difficulty of obtaining water near at hand and the consequent excessive cost; therefore various artificial dust layers have been produced, many of them acting with water to produce the desired effect.

As compared with water sprinkling for dust laying, the use of the various artificial palliatives is generally considered the cheaper.

Calcium chloride is a highly hygroscopic and deliquescent salt. The commercial form, known under the trade name of Solvay granulated calcium chloride, is a byproduct of the manufacture of soda by the Solvay process. It contains about 75 per cent of calcium chloride and about 25 per cent of moisture. Its effectiveness as a dust layer depends very much upon its property of retaining moisture applied to the road surface and absorbing moisture from the atmosphere, thus greatly increasing the effect of water applied directly to the road, and also making available that existing in the air above it. It is applied by either of two methods, the "wet" or the "dry." By the first it is dissolved in water and applied from an ordinary sprinkling cart, a solution of from one pound to one and one-half pounds of the material to each gallon of water being used.

The second method is especially applicable where water is not easily obtained, though it is often used elsewhere. By this method the dry material in its granular form is spread directly upon the road and allowed to dissolve by the absorption of moisture from the air.

Dustoline is a transparent liquid of a brown or plum color, practically without odor. It is shipped in barrels or in tank cars and is applied directly to the road without heating or mixing with water or other material. Ordinary water sprinkling carts may be used to apply it, or it may be sprinkled by hand with a garden watering pot. It acts as a dust layer by holding together the fine particles on the road surface in a moist condition, thereby keeping the road free from dust.

Humor and Philosophy

By DUNCAN M. SMITH

PERT PARAGRAPHS.

A FLIRTATIOUS woman is more apt to spend her time putting crimps in her hair than in taking care of her house.

Being able to marry doesn't make it compulsory unless the girl consents.

Think for yourself, but not too much of yourself.

Intimate friends generally live to deplore expansive moments.

Hard luck isn't so bad when it's picturesque and can be made good for a stunt.

Running for office is too often like chasing defeat.

If everybody roasted the goose somebody in every family would be done brown.

The more a man really knows on a subject the less occasion he finds to talk on it.

Advice is so plentiful that none need ask for it. It comes unbidden.

Plenty of money is desirable, but a lazy man can get along without a lot of desirable things.

The two that live as cheaply as one, want a change of boarding houses about twice as soon.

The trouble is that some women call a spade a snow shovel and expect their husbands to wield it.

Tit For Tat.



"We really must economize, Mary."
"All right, John. I will cut your hair for you and save the barber's fee."
"Good! And I will dress yours for you and save the hairdresser's."

Practical.

"Darling."
"Yes, dear."
"I would do anything for you."
"Anything?"
"Yes, honey."
"But anything won't answer. I want you to be a millionaire."

To the Purpose.

"How can you tell when a girl is in love?"
"In love?"
"I don't know. What I want to know is how can you tell when they ain't?"

Curbed His Curiosity.

"I wish I knew whether those were toadstools or mushrooms."
"Taste them and find out."
"I don't want to know that badly."

Disappointment.

The growing cities of the west
Have heard how small they are.
Perhaps the census man knows best.
But, oh, it is a jar!

The Explanation.

"She is a tailor made woman all right."
"Can her husband stand it?"
"Sure. He is a trust made man."

The Grouch.

"Don't worry."
"Why not?"
"It won't do any good."
"Who said I wanted to do good?"

Run That Way.

"Man is such a creature of habit."
"And that isn't the worst of it."
"No?"
"Most of them are bad habits."

Didn't Make an Impression.
"Are you afraid of lightning?"
"I should say not."
"Did it ever hit you?"
"Not that I remember of."

Evolution.

Once every seven years or so
A man will change from head to toe—
His brain, his heart, his hair, his bones,
His aspirations and his tones.
His methods and his point of view,
His overcoat a time or two—
But give me the conditions right
And I will change him overnight.

He may have been a Democrat
And with that party standing pat.
It may be in the G. O. P.
Redemption only can he see.
Perhaps some cult of lesser size
Alone finds favor in his eyes.
No odds by what he may set store,
I'll change him, as I said before.

And will I turn the little trick
By argument suave and slick,
Backed up by logic, tact and skill?
Oh, no; I do not think I will!
But I will slyly to him say,
"There is a chance for better pay
By being on the other side."
Then calmly wait and watch him slide.

Self interest—it is all I ask.
That furnished, it is not a task
To make him see that black is white.
That wrong is very nearly right.
That what he held to hard and fast
Is but an error of the past.
If I can make the profit clear
I've got him going, never fear.

WHY SHROPSHIRE ARE POPULAR.

What has made the Shropshire so popular? More Shropshires are fed and marketed in England than any other two breeds, writes a New York farmer in the American Agriculturist. In this country there are over 4,000 breeders on the membership roll and more than 2,000,000 animals recorded. The reason the breed is popular is because these sheep give better returns for money invested than any other of the nation breeds. The English farmers, you know, are not slow to find out what sort of live stock is the most profitable for them to keep, and



The Shropshire ram herewith shown was champion at a recent state fair. It is owned by S. M. and S. E. Hader of Missouri. Shropshire sheep are adapted to almost every condition of climate and soil in the United States. They thrive amazingly on the rich farms of the middle west. Wherever they go they make an excellent record. Shropshires are probably the most popular sheep in America for the farmer.

American farmers are not slow, either. The Shropshire Registry association has nearly as many members as all other sheep registry associations of the nation breeds combined. This is ample proof of the popularity of the breed.

Now, back of this breed are the business capabilities of the Shropshire to make lots of money. These sheep show a profit to their feeder and breeder if given any reasonable chance to do so. They are the most cosmopolitan of the mutton breeds and on the same amount of food will excel the other breeds in making more pounds of both mutton and wool than their rivals. They are also very prolific. With good care at least one and one-fourth lambs may be expected on the average to each ewe in the flock, but it is not uncommon even in large flocks to get an average of one and one-half lambs to each ewe. I doubt also if there is any breed that is better adapted for crossing or for breeding on our own native ewes than the Shropshire. Any one who follows the market reports of the leading live stock markets will see that lambs sired by Shropshire rams are continually topping the market. The winnings at the leading live stock exhibitions show that for grades and cross-breeds three-fourths of the winners are sired by Shropshire rams. Shropshires are popular sheep in this country because they are worth while sheep.

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A Difficulty.

A child was being given instruction in the way it should go.
"And remember this," said the father—"you should never hit back. If any one strikes you on the left cheek, you should turn to them the right. You know that, don't you?"
"Yes," objected the child, "but what am I to do if they kick me in the stomach?"

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She Know Him.

"My Cent," said a repentant husband to his wife, "if I have ever used any unkind words to you, I take them all back."
"No, you won't. I know you only too well. You want to use them all over again."

Whooping cough is not dangerous when the cough is kept loose and expectoration easy by giving Chamberlain's Cough Remedy. It has been used in many epidemics of this disease with perfect success. For sale by C. Y. Lowe.

Reinited.

"Peggy," said Sandy, "Ah'm sayin', Peggy, will Ah kiss yer cheek?"
"If ye dne Ah'll skreiech!"
"Oh," said Sandy, "dinna skreiech!"
"Ah! don't ye kiss me on the mouk, then," said Peggy, "for if ye dne Ah couldnt skreiech at all."—Boston Post.

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