

HIGHWAY IMPROVEMENT

WORKING FOR BETTER ROADS

Iowa Superintendent of Public Instruction Makes Some Valuable Suggestions for Improvement.

Good roads and good schoolhouses are the two big factors in the growth and betterment of all the grain-belt states. This was the underlying idea in the address delivered before the Iowa State Teachers' convention by the state superintendent of public instruction, Mr. A. M. Deyoe. That Iowa, as well as all the typically agricultural states of the nation, must become educated away from the old style of road and the old style of one-room schoolhouse before it can attain to the full measure of its greatness, is quite generally conceded. Superintendent Deyoe made some valuable suggestions as to how the money expended for good roads might be spent to better advantage, saying:

"Good schools and good roads are the two most important needs in rural communities. Both may be secured with but little greater expense than the most of maintaining the present prevailing system of rural schools and the indifferent methods used in road building. The consolidation of schools is not wholly dependent upon the making of permanent roads. The transportation of pupils to schools is being managed quite satisfactorily in Iowa and other states where permanent roads have not yet been established. However, as a matter of convenience, in many ways, good roads play such an important part in rural life development that our state should no longer delay by legislative action to adopt some systematic plan of permanent road construction. Approximately \$3,479,382 was paid in cash as road tax in Iowa for the year 1911. This amount does not include the amount of tax expended in work. The automobile tax for the year closing June 30, 1912, was \$505,000, which will increase from year to year at the present rate. It is safe to estimate the total amount available road tax in cash as \$4,000,000, which should build at least 1,000 miles of permanent roads. Ten years of permanent road construction would give 10,000 miles of good roads, whereas, if the present method of road building continues, our roads will practically be no better at the end of the ten-year period than they are today. This estimate takes no consideration of the tax annually worked, which would be available for use in necessary general repair of roads. Better social and industrial conditions will follow the establishment of good roads and good schools.

The good roads problem will undoubtedly come in for greater discussion in the grain belt states this winter than ever before. The teachers are a wonderful factor for good in any state. If they can be inspired to take up the cudgel for better highways much good must inevitably result, says the Iowa Homestead. Farm home improvement, rural church betterment and country school advancement are splendid things, devoutly to be sought, but they fall of their highest purpose and object if they do not bring coincidentally with them the permanent roadways on which rural and urban prosperity actually depend.

GET ROADS INTO CONDITION

Where Rough Spots Have Formed King Road Drag May Be Used to Advantage During Mid-Day Thaws.

There's a bad condition of country roads along in the fall due to late rains and hard freezes. They become so rough that it makes the horse's feet sore to travel over them, shakes the wagon nearly to pieces and makes riding anything but pleasant. This condition can be helped a great deal by the judicious use of the King road drag. If the roads had been kept in proper shape all summer and following the fall rains they would have shed water and not become muddy, to freeze rough. But after it has happened the next best thing is to use the drag on them during the mid-day thaw. Then the hummocks will be planed down and the ruts filled to freeze more smooth during the night. Of course, it will take constant watching and care for a few days in the fall to put the roads in proper condition for a freeze but it will pay to do so. The farmers do much hauling in winter and for the sake of the horses, the driver and the wagon, and for the sake of having fine sleighing when the snow comes, it pays to have the roads in good condition.

If no one has a King drag then get out the spike tooth harrow and smooth the roads.

It will be a good thing in some places to thin out the groves and hedges along the roads. These catch the snow and cause bad drifts all winter. These drifts cause very bad mud-holes in the spring. Use the ax where necessary.

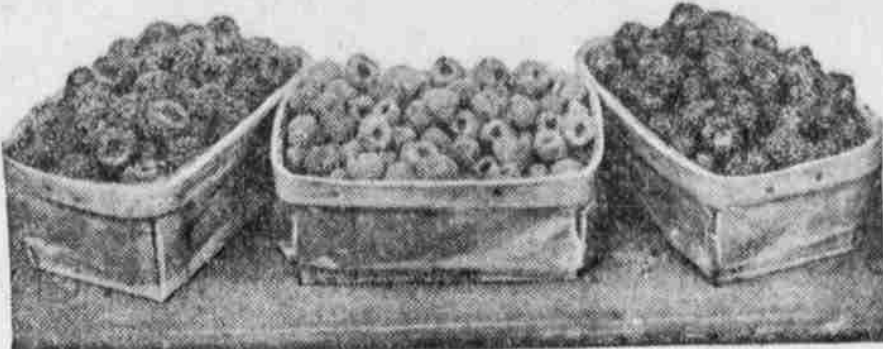
Bad Practice.

Selling the heifer calves and buying at public sales cows of untried performances, is like stopping the bump and knocking out the head.

To Destroy Weeds.

Sheep will eat 480 different kinds of weeds. See the point?

USING INSECTICIDE IN DORMANT SEASON



Fine Assortment of Raspberries.

The discovery or invention of the cheapest and most easily prepared of all the insecticides and fungicides and the one which can be used to greatest advantage during the period of vegetative dormancy, the lime-sulphur spray, was one of the happiest of recent years.

It has proved by far the most dependable agent in keeping under control that most destructive and excessively multiplying of all orchard pests, the San Jose scale and likewise all the other fruit tree scales and was soon ascertained to be equal to and in some instances superior to the famous Bordeaux mixture for the extirpation or rendering inert the overwintering germs of blights, rusts, fruit-rot and other fungous diseases, says a Missouri writer in the Farm Progress.

Bacterial blights, crown galls on various trees and berry bushes and a few other rather rare tree diseases do not however yield to this or any other chemical application, and can only be kept in check by frequent use of the knife, pruning shears and by digging out and burning. But for the insects and diseases above enumerated, when made according to the standard formula and applied at the proper time and in the proper way, it has no superior as an insecticide and fungicide. It may be adapted to other purposes also, as, for example, to the spraying of poultry houses, pigeon lofts and inclosures for the larger animals.

One very successful poultry grower uses it in the place of the common lime wash in his poultry houses and claims that it is an absolute remedy for and preventive of mites and other parasites when applied to the walls as a spray and of scaly leg and other skin diseases when well diluted on the legs and other parts of the fowls affected and, in fuller strength, to the perches and nest boxes.

When a large number of trees and shrubs are to be treated the spraying solution can be more economically made at home than purchased in concentrated form. The directions for making the winter spray are as follows: Slake 30 pounds of best lime in iron kettle in just enough water to do it thoroughly, and while it is slaking add 30 pounds of four or commercial sulphur by dusting it on the bubbling lime, and stir it vigorously to thoroughly mix the two ingredients, adding enough hot water to make the stirring easy.

Let it boil for one hour and when partially cooled strain through sack into a large barrel. When ready to use, add enough hot water to make 100 gallons and apply while still quite hot.

For the small family orchard it saves much trouble to buy the concentrated lime sulphur solution—prepared with chemical accuracy at a number of manufacturers—by the barrel and dilute each gallon with 11 gallons of hot water. A barrel of the concentrate sold last year for eight dollars, with one dollar rebate if the barrel was returned. This is by no means an expensive preparation, as a single gallon of the concentrate, reduced according to directions, will spray a quite large tree. The spraying should be done as early in the winter as possible, choosing a still day, when the mercury is above the frost point. Have every part of the spraying apparatus in order before turning the hot solution into the pump tank. The face of the operator should be protected with a wide-brimmed, old felt hat, pulled well down, and old leather or buckskin gloves should be worn, with warm but not valuable clothing. Always throw the spray with the breeze when there is any of the latter.

Under the best conditions the task is a disagreeable one, but if every part of every tree is thoroughly damped it will not need to be repeated for a year. When the treatment is concluded the pump and nozzles and tubing must be thoroughly washed with clear water and dried as soon as possible to prevent corrosion of all the metal parts and injury to the rubber.

MUCH LOSS FROM USING POOR SEED

One Must Continually Select Good and Persistently Destroy Bad to Succeed.

(By A. F. WOODS.)

The importance of natural variation and differences in climate in relation to agricultural production, has never been fully realized. Under natural conditions only those survive which can modify their habits of growth so as to make a successful resistance to destructive influences and propagate their kind.

When man enters in as a factor he may, and usually does in a considerable measure, interfere with these natural adjustments. He selects individuals and cultivates them for some natural peculiarity, and as a result intensifies these features; but unless he follows nature's methods and destroys the plants that are not best adapted to his conditions and requirements he soon gets a mixture of individuals, good, bad and indifferent, and cultivates them all together.

On the other hand, if he selects the individuals that give the best results under his peculiar conditions and prevents their crossing with the less desirable sorts, he soon develops a strain of high efficiency and productiveness for those particular conditions; but, like nature, he must continually select the good and persistently destroy the bad, or eventually lose all and see the variety "run out."

The great importance of selecting and growing seed under the conditions under which the future crop must be grown is now apparent.

Dairying is Supreme.

The fertility which live stock makes on the farm is one of the advantages to be derived from this class of farming and in all live-stock farming dairying is supreme.

Whitewash Benefits.

A fresh coat of whitewash on the inside of the sleeping quarters always looks good to the prospective hog buyer, and will also tend to check vermin.

ADVANTAGE OF A SEPARATE ROOT CELLAR



While every barn should have a frost-proof cellar, or other room for the storage of perishable green feeds, a separate root-cellar is an advantage.

In general feeding we too often forget that the animal body is about three-fourths water, and that any animal requires a large proportion of water in the feed ration.

Green feeds of some kinds should be given at all times of the year for animals to do their best. If one has a silo, then silage will fill the bill. Pumpkins can be fed from early fall till the middle of winter, and roots—carrots, turnips or sugar beets—should be grown and stored to carry the stock till grass comes.

As evidence of the value of water in feeds, and green feeds, we refer to the rapid growth and good health of animals on good pasture.

Animals of all kinds will gain flesh and fatten on good grass pasture, and green grass is from 75 per cent. to 90 per cent. water. Now, if we remember this in feeding, and supply some green feeds at all seasons, our farm animals will make greater proportionate gains and turn all the feed to greater account. Every barn should have a frost-proof cellar, or other room, where roots and other perishable green feeds could be kept through the winter.

E. V. B.

Housework is a Burden

The daily cares of keeping house and bringing up a family are hard enough for a healthy woman. The tired, weak mother who struggles from morn to night with a lame, aching back is carrying a heavy burden.

Many women believe that urinary disorders and backache are "female troubles" and must be endured. But men suffer the same aches and troubles when the kidneys are sick.

Women are especially subject to kidney disease. Tight clothing, indoor work, the ordeals of childbirth, the worry, and the stooping, straining and striving of housework all help to bring it on. At first the trouble may be only backache, sick headache, dizziness and a drowsy, dull languid feeling, but this condition is dangerous to neglect, for dropsy, gravel and deadly Bright's disease start in some such small way.

Don't be discouraged. When backache, nervousness and irregular or painful passages of the kidney secretions begin to bother you, use Doan's Kidney Pills, the remedy that has brought new life and strength to thousands of suffering women. There are no poisonous nor narcotic drugs in



"Oh! What a pain."

Doan's Kidney Pills—nothing to injure nor cause a habit. Delicate women can use them with perfect safety. The following case is typical of the cure effected by Doan's Kidney Pills. Grate's testimony is the best evidence.

SAVED HER LIFE Made Well After Doctors Failed

Mrs. John Brumley, 114 12th St., Greeley, Colo., says: "I believe I would be in my grave if I hadn't used Doan's Kidney Pills. The first sign of kidney trouble was a constant ache in my back. I dragged along, day after day, feeling too tired to attempt my housework. Then came frequent dizzy spells that made me weak for hours. The kidney secretions were irregular in passage and very distressing. My feet ached and swelled until I could hardly stand. The swelling extended upwards to my limbs and hips. For three months I hardly slept enough to keep me alive. I was awfully nervous and irritable. My case puzzled the doctors and their medicine didn't help me. A relative had been cured of kidney trouble by Doan's Kidney Pills and advised me to try them. I did and the results were wonderful. The backache stopped, the swelling went away and I rested better. The kidney secretions got all right and once more I enjoyed good health. Recently the kidney secretions were analyzed by the doctor and he found no signs of kidney complaint. Doan's Kidney Pills alone cured me."

"When Your Back is Lame—Remember the Name"

DOAN'S KIDNEY PILLS

Sold by all Dealers. Price 50 cents. Foster-Milburn Co., Buffalo, N. Y., Proprietors

REFUSED TO GET EXCITED

Old Man Jones Philosophically Reasoned That Norah Had Right to Go Out as She Chose.

The topic switched to taking a philosophic view of things, and Congressman Patrick D. Norton of North Dakota told of the beautiful epilogue with which one Jones met a rather trying situation.

One day Mrs. Jones rushed into the old man's presence with hasty steps and a wild look of excitement.

"Oh, John! Oh, John!" she exclaimed with a lot of emotional thrills. "Norah made a mistake and tried to light the kitchen fire with gasoline!"

"Gasoline, eh?" calmly responded John. "Did she get it started?"

"Did she get it started?" cried the amazed Mrs. Jones. "It blew her out the kitchen window!"

"That's all right, my dear," returned the philosophic Jones. "It was her afternoon out, anyway."

ADMONITION HAD NOT SUNK

Small Girl Calmly Put Aside the Chiding Administered by Her Paternal Relative.

Here is a "kid" story which Dr. Oakley Smith, president of the Chicago College of Naprodathy, enjoys telling his friends:

"An eastern intimate of mine," said Doctor Smith, "has a child of extraordinary precocity. She is only three, but has a mind of her own which she sometimes asserts to the consternation of her father and mother.

"It became necessary one day for the child's father to reprimand her gently, but firmly, when she misconducted herself at the table. The child's face bore a pained expression. The mother was silent. A guest at the table wore the resigned air that guests always do on such occasions. As the father finished his admonition the silence was electric—burdened with foreboding. And the strand was broken only when the baby looked up at her mother and asked:

"Mamma, did somebody say something?"

ENDS DYSPEPSIA, INDIGESTION, GAS

"Pape's Diapepsin" cures sick, sour stomachs in five minutes—Time It!

"Really does" put bad stomachs in order—"really does" overcome indigestion, dyspepsia, gas, heartburn and sourness in five minutes—that—just that—makes Pape's Diapepsin the largest selling stomach regulator in the world. If what you eat ferments into stubborn lumps, you belch gas and eructate sour, undigested food and acid; head is dizzy and aches; breath foul; tongue coated; your insides filled with bile and indigestible waste, remember the moment "Pape's Diapepsin" comes in contact with the stomach all such distress vanishes. It's truly astonishing—almost marvelous, and the joy is its harmlessness.

A large fifty-cent case of Pape's Diapepsin will give you a hundred dollars' worth of satisfaction.

It's worth its weight in gold to men and women who can't get their stomachs regulated. It belongs in your home—should always be kept handy in case of a sick, sour, upset stomach during the day or at night. It's the quickest, surest and most harmless stomach doctor in the world.—Adv.

His Contribution.

A little boy of five was invited to a children's party. The next day he was giving an account of the fun, and said that each of the little visitors had contributed either a song, a recitation, or music for the pleasure of the rest.

"Oh, poor little Jack!" said his mother. "How very unfortunate you could do nothing!"

"Yes, I could, mother," replied the young hopeful. "I stood up and said my prayers!"

ECZEMA ITCHED AND BURNED

R. F. D. No. 2, Seymour, Mo.—"My scalp broke out with fine pimples at the start. They itched and burned so much that I was compelled to scratch them and they would fester and come to a head and break out again. The trouble was attended by such burning and itching I could not sleep, also when I sweat it burned the same. My hair fell out gradually and the scalp kept rough and dry with itching and burning. After about two years the pimples broke out between my shoulders. My clothing irritated them. I was troubled with that eczema five or six years.

"I tried everything that was recommended without any benefit until I used the Cuticura Soap and Ointment according to directions, and Cuticura Soap and Ointment cured me sound and well in two weeks." (Signed) S. L. Killian, Nov. 22, 1912.

Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address post-card "Cuticura, Dept. L, Boston."—Adv.

Nearly a million divorces have been granted in the last 20 years.

400,000 Settlers a Year

Immigration figures show that the population of Canada increased during 1913, by the addition of 400,000 new settlers from the United States and Europe. Most of these have gone on farms in provinces of Manitoba, Saskatchewan and Alberta.

Lord William Percy, an English Nobleman, says:

"The possibilities and opportunities offered by the Canadian West are so infinitely greater than those which exist in England, that it seems absurd to think that people should be imported from coming to the country where they can most easily and certainly improve their position.

New districts are being opened up, which will make accessible a great number of homesteads in farming, especially adapted to mixed farming and grain raising.

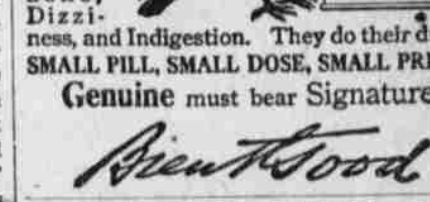
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Nebraska Directory

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