

AGRICULTURAL HINTS

POOR STONE ROADS.

Few "Macadam" Roadways Are Being Built Properly. Interest in the movement for better highways shows itself most strongly in the growing custom of using crushed stone for road improvement.

It is greatly to be deplored, however, that while so much excellent material is being employed, the methods adopted are so very faulty. In too many cases the men having the work in charge are content simply to deposit the stone upon the highway, frequently throwing it right into a muddy spot, and doing nothing further after the material has been put in place and spread.

All of these attempts at building macadam roads are failures, when regarded from the standpoint of intelligent and scientific road construction. The valuable feature of a stone or macadam road is its absolute compactness, and



FRENCH MACADAM ROAD. (Located Between Fontainebleau and Sens.)

the principal aim in building a road by the use of crushed stone should be to thoroughly pack and firmly unite every part of the material used. The only way to accomplish this is to roll every layer of dirt, stone, gravel or other material separately. Before any of the stone is deposited, the subsoil should be thoroughly hardened by rolling with a heavy roller. A layer of stone, if it is to properly pack and form a hard road bed, must have, above all, a solid foundation.

So, too, if it is intended to place a layer of gravel, or smaller crushed stone, or screenings on the surface, the layer of crushed stone beneath should first be thoroughly hardened and packed. It is a mistake to suppose that the two can be packed and rolled together. Material, to be thus compacted, must be uniform in character and size, and, while the angular pieces of stone will shift about under the weight of the roller until they are all firmly wedged in place, round particles of gravel, or smaller pieces, loose dirt or sand, when mixed with these angular pieces, will prevent their being thus crowded together and compacted.

The above explanations are the result of a careful study of the instructions issued by the state highway commissions of Massachusetts, California, New Jersey and Connecticut, and indicate the principles followed in those states in the construction of roads by state aid. The same principles are laid down in treatises upon macadam roads as built in Pennsylvania, Alabama and Ontario, and they constitute the fundamental rules laid down by experienced road engineers all over the world.

The building of macadam roads offers opportunities for manifold mistakes and for an enormous waste of public funds. If ever it be true that what is worth doing at all is worth doing well it is emphatically true in the building of stone roads. A macadam road, when once properly constructed, needs little repairing and lasts for generations, as has been indisputably and repeatedly proven in England and on the European continent. A stone road, poorly built, for want of successful rolling, even with excellent material, is but a poor highway at best. Many so-called macadam roads, recently built by inexperienced men or without the proper use of good road rollers, are continually going to pieces by the wearing of ruts and the subsequent combined action of water and travel. Every good macadam road testifies to the value of durable highways, while every stone road improperly built throws a shadow of doubt upon the movement for better highways. Those who believe in good roads cannot afford to have their work thus discredited.

OTTO DORNER.

Don't Confine the Turkeys. Feed the turkeys well, but do not confine them. Turkeys will lose flesh if confined longer than ten days, as they fret and pine for their liberty. The proper plan is to keep them growing as much as possible, by feeding them twice a week, with a mess of wheat morning and night. Just before setting, they may be cooped up for a week or ten days, and fed four times a day on a variety of all they will eat; making corn and corn meal the principal food. It always pays to fatten them before selling.—Rural World.

Sensible and Effective. The executive committee of the united wheelmen of Montgomery county, O., drew up a simple but practical, complete and inexpensive plan of road improvement, setting forth the needs of the county roads, the methods best adapted to keep them in repair, and the estimated expense, and petitioned the board of county commissioners to adopt it, and pledged candidates to it prior to the election.

WINTER DAIRYING.

If the Cows Are Well Protected and Cared For It Pays.

There is always a demand for extra good milk. We are in favor of selling milk from five to eight cents per quart can be obtained. In the suburbs that is not a high price because the owner of milch cows has to pay high for all the feed they buy. It requires much bran, shorts and linseed meal to keep the cows to their milk. That is to say, such cows as come fresh in December and succeeding months. The shelter has to be closely watched and the stalls well littered and water has to be tempered before giving it to the cows or they will not drink it. We again remind our readers that it is not good practice to wash the cows bags. It makes the skin tender and is apt to crack the teats, which by the necessary milking twice a day are hard to heal up. Now, no sensible person will imagine that we oppose warm water for a wash absolutely necessary, but when a soft brush and a clean soft cloth can do the work I use no water.

Jersey cows are not of the kind to pour out a great quantity of milk for a mess; but most people of experience know that their milk is very rich, containing oftentimes twice as much cream as that of ordinary stock, hence their milk should bring an extra price because it is worth it.

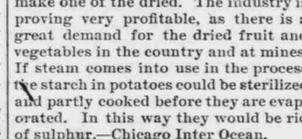
Many people give larger rations than common so soon as they notice that the cow is springing bag. For a young cow liberal feeding may be allowed, but the older cows seldom develop larger udders nor is it desirable. Our experience teaches that high feeding up to the time of calving is very dangerous, because it increases the parturition fever, more or less of which is always to be expected. Hence, we counsel to withdraw the feed of the usual rations one-third, and when the udder is much distended, even more than that. After 36 or 48 hours, if the cow is ready to eat, commence to increase the feed and in a few days thereafter you may give her all the feed she can assimilate, and you will find the flow of milk correspondingly increased.—Charles W. Murtfeldt, in St. Louis Republic.

DRYING VEGETABLES.

In California It Has Become Quite an Important Industry.

In California the drying of vegetables has developed into an important industry. Potatoes, carrots and other tubers are poured into the hoppers of cutting machines, where rotating blades slice them a quarter of an inch thick. They are then slightly sulphured in a wooden chamber. If this process is overdone the vegetables will taste of the fumes; if too little, bacteria, attracted by the starch, will develop. A little sulphuring is necessary to prevent decay and to preserve the color. The tubers are now revolved for a few hours close to a hot pipe in an evaporator, which is a sort of Ferris wheel, consisting of a brick oven with glass windows. At the end of this time the potatoes are taken out in the form of dry chips. It requires six or seven pounds of the fresh to make one of the dried. As bacteria do not take kindly to onions, they are only slightly sulphured. It takes 20 pounds of the fresh onions to make one of dried, they shrivel up so much. Nine parts of fresh carrots are required to make one of the dried. The industry is proving very profitable, as there is a great demand for the dried fruit and vegetables in the country and at mines. If steam comes into use in the process the starch in potatoes could be sterilized and partly cooked before they are evaporated. In this way they would be rid of sulphur.—Chicago Inter Ocean.

Handy Milking Stool. Although Made at Home, It Has Given General Satisfaction. I have used a milking stool made and illustrated on the plan described below for six years. The seat board (a) is of two inch plank, nine inches wide, 14 inches long. The stool board (b) is two inches thick, nine inches broad and long, cut round. A three-eighths-inch bolt (c) is put through the middle, the head



HANDY MILKING STOOL.

sunk, the nut left off, so the seat will revolve. The seat is 11 inches high. A hoop (e) is fastened with staples on the upright board (d) to hold the bucket so it will be 11 inches from the floor to its upper rim. I use a two-gallon tin pail. A heavy wire is used for a hoop. The piece d is two by four and six inches long fastened to the underside of the seat.—Lyman Parmelee, in Farm and Home.

Cherry Trees in Grass. Our experience with cherry trees is that they do not require cultivation. Those we had in the garden were always more liable to rot and to be affected by insects than the trees that stood in dry places and surrounded by grass. It may be that it is the extra moisture in the cultivated soil that predisposes cherries to rot, or it may be the manure annually applied to the garden and to which the cherry tree roots helped themselves freely. The cherry tree does not do well with wet feet. On high, dry land its roots will run deeply enough to find all the moisture it needs, and on such land in grass is the best to plant cherries for profitable fruiting.—American Cultivator.

Good Season for Agitation. The coming six months will afford a splendid opportunity to agitate for better highways, develop popular sentiment and force it upon legislatures.

CALENDAR FOR 1898.

Calendar grid for 1898 showing months from January to December with days of the week and dates.

Advice to Klondikers.

"Be sure you are right—then go ahead." The newspapers are filled with all sorts of statements regarding mining in the Yukon basin; and schemes for the profit of the "stay-at-homes" are more plentiful than fields in Dawson. The railways are trying to place before you reliable information as to the country and how to get there. The Northern Pacific is the pioneer in Alaska passenger traffic, running its trains from St. Paul and Minneapolis to Puget Sound and Portland, have by their recently issued map folder on Alaska again demonstrated their right to first consideration. Send Chas. S. Fox, St. Paul, Minn., 2-cents postage for the latest and best Alaska map published.

The Man of Moderate Means.

"I can't afford," said the man of moderate means, "to go to many places of amusement, but I am admitted free to the play with the longest run on record, 'The Struggle for Life.'"—N. Y. Sun.

The Hot Springs.

Picturesquely situated in the heart of the Black Hills of South Dakota are renowned for the marvelous cures of rheumatism, neuralgia and kindred diseases, which have been effected by the use of its waters. First-class hotel accommodations and baths. Tourist tickets on sale daily and especially low rates on the first and third Tuesdays of this month. For full information apply to agents Chicago & North-western Railway.

Fond of Golf.

Stokes—Is your son fond of golf? Pogis—Fond of it? I should say he was. Why, the young rascal actually plays it.—Boston Transcript.

Tourist Sleeping Cars.

Commencing with the excursion of Dec. 7th, the Missouri, Kansas and Texas Ry. has inaugurated a system of Tourist Sleeping cars on their excursion dates between St. Louis or Kansas City and South Texas points. For information address H. P. Bowsher, 435 Walnut St., Cincinnati, Ohio.

When a man begins to imagine that he is in love with a bloomer girl it's time for him to stop drinking.—Chicago News.

Fits stopped free and permanently cured.

No fits after first day's use of Dr. Kline's Great Nerve Restorer. Free trial bottle & treatise. Dr. Kline, 933 Arch St., Phila., Pa.

On the shoulders of the young and hale poverty sits but lightly.—N. Y. Independent.

In Winter Scatica is worse. Any time St. Jacobs Oil is the best cure.

The dance they sit out is the most delightful to a pair of lovers.—Chicago News.

Cold weather aggravates rheumatic pains but St. Jacobs Oil cures—any time.

No man can love a woman, no matter how beautiful she is, if she can't cook.—Washington Democrat.

THE MARKETS.

Market prices table for various commodities including live stock, grain, flour, and other goods, with prices listed for different locations like Cincinnati, Chicago, and New York.

GIVES HER OLD NUMBER.

Young Bride Confused in Making Her First Purchase.

She was one of the prettiest little things in the world and the way she stepped into the store and ordered a bill of groceries was a sight worth witnessing. When she came to settle for them she found she did not have enough money with her, so blushing she asked that they be sent C. O. O. "Certainly," returned the obliging grocer, smilingly. "What is the number?" "The little lady stammered as she gave the name Gibson, and blurted out when she came to the number. At last she faltered out: "No. 4621 M—; no I mean 5337 B," and hastened away covered with confusion and blushes. An interested bystander asked the grocer as the girl went out the door: "One of those persons who try to get good under false pretenses, I suppose?" and was very much astonished when the grocer replied, laughing: "Not on your life. Just a bride giving her first order. I can spot them a mile off."—Chicago Chronicle.

YOU CAN'T STOP 'EM.

News comes from Attica, Ind., of the destruction, by fire, of the big laboratory and office building at the Sterling Remedy Company, makers of Cascarets Candy Cathartic and No-To-Bac, the original guaranteed tobacco habit cure. The fire broke out in one of the packing rooms on the third floor during the noon hour, and had made considerable headway before it was discovered. As soon as it became apparent that the fire department would have difficulty in combating the flames, the work of saving the thousands of valuable documents, contracts, files, mailboxes and booklets and tons of advertising matter was begun with the utmost energy. The Sterling Remedy Company is the principal industry of the beautiful little city of Attica, employing several hundred people, besides being affiliated with the Indiana Mineral Springs, the famous Magno-Mud Cure. Hundreds of men, women and children lived with each other in carrying the contents of the burning building to places of safety. Meanwhile the proverbial energy and presence-of-mind of General Manager Kramer, of the Sterling Remedy Company, was displayed. He quietly walked away, and secured a big show room near by, and had all the office furniture, charred and dilapidated as it was, taken there. Before the boxes had ceased burning, in which the fire originated, orders were being dictated in the make-shift office for new supplies, and car loads of material were ordered by wire while the streams were still playing on the ruins. Several shipments were made the same evening from goods saved, and on Friday morning, all departments were at work in various rooms about town, while a gang of men were clearing away the wreckage preliminary to rebuilding.

His Parting Shot.

He (after being rejected)—I shall never marry now. She—Foolish man! Why not? (Viciously)—If you won't have me, who will?—Philadelphia North American.

All About Alaska.

Descriptive folder containing five maps of Alaska and routes to the gold fields, the most complete publication of the kind in print. Send 4 cents in stamps to F. L. Whitney, G. P. & T. A. Great Northern Railway, 3d and Broadway St., St. Paul, Minn., Alaska. "Land of Gold and Glacier," a beautifully illustrated booklet, sent for fifteen cents in stamps. The Great Northern is over 100 miles the shortest line from St. Paul and Minneapolis to Seattle and Portland, the outfitting points whence steamers sail for Alaska.

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Women say of every pretty girl that she might be tolerably good looking if she didn't know it so well herself.—Washington Democrat.

If you want to be cured of a cough use Hale's Honey of Horehound and Tar. Pike's Toothache Drops Cure in one minute.

Any woman will finally get tired of her husband if he is a habitual loafer.—Washington Democrat.

To Cure a Cold in One Day. Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

"Rushem is dealing in mining securities, isn't he?" "Well, stocks is the better word."—Chicago Journal.

I believe Piso's Cure for Consumption saved my boy's life last summer.—Mrs. Allie Douglass, LeRoy, Mich., Oct. 20, '94.

Hope—The untiring effort of a woman to find a burglar under the bed.—Chicago News.

Never trifle with pain. It may fool you. St. Jacobs Oil never fools; it cures.

The upper ten is composed of the winning nine and the umpire.—Chicago News.

Isn't a scald a burn? Yes; and St. Jacobs Oil is a cure.

Everybody at a fire knows best how to put it out.—Washington Democrat.

CAUSE FOR ALARM.

How baldness begins.

How to prevent it.

Every person, male or female, shrinks from baldness. It adds to the appearance of age and is a serious discomfort. The cases are rare when the falling out of the hair may not be stopped, and a new and healthy growth of the hair promoted. The hair grows in the scalp like a plant in the soil. If a plant flourishes, it must have constant attention; it must be watered regularly and find its food in the soil where it is rooted. It is so with the hair. Neglect is usually the beginning of baldness. Dandruff is allowed to thicken on the scalp. The hair begins to loosen. The scalp loses its vitality. The hair, insufficiently nourished, begins to fade and to fall. The instant need in such a case is some practical preparation which, supplying the needed nourishment to the scalp, will feed the hair, give it strength, and so produce a strong and healthy growth. If this is done by Dr. Ayer's Hair Vigor, the most practical and valuable preparation for the hair that can be obtained. It tones up the scalp, does away with dandruff, stops the hair from falling, restores the original color to gray or faded hair, and gives an abundant and glossy growth. Those who are threatened with approaching baldness will be interested in the following voluntary statement, made by Alderman S. J. Green, of Spencer, Iowa. He writes: "About four months ago, my hair commenced falling out so rapidly that I became alarmed, and being recommended Dr. Ayer's Hair Vigor by a druggist, I resolved to try this preparation. I have been now using it for three months, and am much gratified to find that my hair has ceased falling out and also that now, which had been turning gray for the past five years has been restored to its original color, dark brown. It gives me much pleasure to recommend this dressing." S. J. GREEN, Alderman, Spencer, Iowa. "Those who are interested in preserving and beautifying the hair will do well to send for Dr. Ayer's Cur-Curb. A story of cures told by the cured. This book of 100 pages is sent free, on request, by the J. C. Ayer Co., Lowell, Mass.

MRS. LYNNESS ESCAPES

The Hospital and a Fearful Operation.

Hospitals in great cities are sad places to visit. Three-fourths of the patients lying on those snow-white beds are women and girls.

Why should this be the case? Because they have neglected themselves! Women as a rule attach too little importance to first symptoms of a certain kind. If they have toothache, they will try to save the tooth, though many leave even this too late. They comfort themselves with the thought that they can replace their teeth; but they cannot replace their internal organs!

Every one of those patients in the hospital beds had plenty of warnings in the form of bearing-down feelings, pain at the right or the left of the womb, nervous dyspepsia, pain in the small of the back, the "blues," or some other unnatural symptom, but they did not heed them.

Don't drag along at home or in the shop until you are finally obliged to go to the hospital and submit to horrible examinations and operations! Build up the female organs. Lydia E. Pinkham's Vegetable Compound will save you from the hospital. It will put new life into you.

The following letter shows how Mrs. Lynness escaped the hospital and a fearful operation. Her experience should encourage other women to follow her example. She says to Mrs. Pinkham: "I thank you very much for what you have done for me, for I had given up in despair. Last February, I had a miscarriage caused by overwork. It affected my heart, caused me to have sinking spells three to four a day, lasting sometimes half a day. I could not be left alone. I flowed constantly. The doctor called twice a day for a week, and once a day for four weeks, then three or four times a week for four months. Finally he said I would have to undergo an operation. Then I commenced taking Lydia E. Pinkham's Vegetable Compound, and

after one week I began to recover and steadily improved until I was cured completely. By taking the Pinkham medicine, I avoided an operation which the doctor said I would certainly have to undergo. I am gaining every day and will cheerfully tell anyone what you have done for me."—Mrs. THOS. LYNNESS, 10 Frederick St., Rochester, N. Y.



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IN A WORLD WHERE "CLEANLINESS IS NEXT TO GODLINESS" NO PRAISE IS TOO GREAT FOR SAPOLIO

OUR DIALECT. A Hard Thing for the Average Person to Understand. The two men approached each other and spoke as follows: "Hello, man, watz news?" "Noht! aliter know of. Zher wife got baa kyet?" "No. Specterback never train. Woan chav some m?" "Muttcher bligeder jus tad one. How zevering?" "Oh, bout zhusual. Sni sweater 'wavin' now?" "Certain liz. But fdone train farmer slaver had timether wheat. Say, gotcher boe soce ainter fraidtether car shet?" "Oh, yesser gettether lamb zwie. Wenzher brother gointer selly zouse?" "Soony zeeck'n fine mantle paze price. Sawful hard nower sell anything fwuts sworth." "That right. Jerreck'n thing sloose snupper little this fall?" "Yesser guess thizeren wheat'll may kevethering moo flong." "Well, limes be going. Drop pin some timenyer passing." "A'r; chew dothersame." "I will. Gladter metcher." "No, son, this is neiter Scotch, Irish, Creole, New England, Wild West, Kipling-American, Georgia Cracker, Dowery or Craddock-Moonshiner dialect; it is simply the English language as she is spoken every day in any town in the United States by the average American citizen.—Detroit Free Press.

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