securing the Right Kind of Material for Good Roads.

By Henry Wallace, Editor Iowa Homestead. The problem of securing permanently good roads in lowa is hedged round

good roads in lowa is hedged round with many difficulties.

First, the land being laid off in sections, each one mile square, and the roads being located almost universally on section lines for the convenience of the farmers, no attention whatever has been paid to securing easy gradients with a view of decreasing the cost of transportation. No matter what the nature of the ground, unless by reacon of streams, lakes or high bluffs where a road is altogether impracticable, it is placed on the section lines. Roads of this character are purely local, affording an outlet for the farms adjoining, and the utmost that is attempted is to make them passable when roads better located are ordinarily good. It follows from this that in the newer sections the road system of the state is constantly becoming worse, and for two reasons; the roads themselves are n. edifficult to travel, and the distance com point to point, by reason of the necessity of turning square corners, increases with the settlement of the country. The best roads lowa ever had were made before the public roads were located. In those primitive days travelers took the valleys or the ridges, generally the latter, and enjoyed roads reasonably level and undisturbed by injudicious improvement by supervisors who lack the conception of either what a good road ought to be or how to make one. As an instance of the lengthening of the roads we might give the following: A county seat is cated, as many county seats are, in the centre of the county. A thriving town springs up in the corner of the county, nade up of sixteen townships, each six niles square. The distance from the miles square. county seat to this town on an air line s nearly seventeen miles. Counting the meanderings necessary to secure the best line, it would be in the neigh-borhood of twenty, whereas when the country is fully improved and the roads located on section lines, it is twenty-

It is quite true that but few of these roads on section lines are anything more than outlets to the farms adjoining; farmers in going to town selecting those roads that have the best bridges, the best gradients and fewest mud holes. Any system therefore that will give good roads to the state must provide first, either for making direct roads that save distance between the leading towns, or for improving some permanent way the roads which custom and travel have made the leading ones. To obviate the difficulties that have grown out of this custom of placing roads on section lines will in volve great expense, as no farmer with without remuneration will allow his farm to be crossed diagonally by a public highway, no matter what the ad-

vantages may be to the public.

The second difficulty in securing good roads, such as are common in old settled countries and in the older states, lies in the absence of suitable material for covering the road bed. There are comparatively few gravel deposits in the state; and while a large section of the state is abundantly supplied with rock, and particularly the carboniferous rocks peculiar to the formation, these lie at from ten to fifty feet under the surface of the prairie and are exposed only along the streams. is only in certain localities, fore, that material can be found for

making macadam roads. The third difficulty in securing good roads is the independence of the lowa farmer, the tenacity with which he clings to that which is, and the suspicion with which he regards any scheme that involves a large expenditure of money, of which he is expected to contribute the greater portion. He has figured the cost of macadam, of gravel and paving and has concluded that the lowest cost at which the roads generally advocated could be furnished would involve him hopelessly in debt, if not bankrupt him entirely. The more the citizen, or the man of the city. talks to him about the necessity of macadamized roads, of which he is to bear the expense, the more resolutely he sets himself against any proposition to macadamize the road on the line of

his farm, and concludes with Hamlet, "Tis better to endure the ills we have Than ily to others that we know not f." As an illustration of this we need only to point to the fact that on two successive Saturdays in March of the present year, road meetings were held in the city of Des Moines, each attended by a large number of farmers, the second adjourning sine die after passing a resolution that no improvement of the roads was necessary. Had a proposition been offered to unite the city and the adjoining townships in one district for road purposes, and to tax the city as well, as the country for the main lines of roads leading out of the city, it no doubt would have carried. Would such a proposition have been more than just?

What then can be done for good roads in lowa? While macadamized and gravel roads are yet far in the distance except in limited localities near the large cities, there is very much that can be done, and that, too, without any ex-pense beyond that already incurred, and that should be done at once. There is no better road in the world than an lowa dirt road when it is good. It is smooth, it is easy on the horse, even if sometimes dusty, and its continuance in this state of grace varies with the years, sometimes six months, sometimes ten. All that depraves a country road in lowe and renders it horrible to ontempiate and a source of profunity. both internal and external, is uncontrolled water. Speaking not now of country roads leading to cities, where there is a great deal of heavy hauling. but of the roads for country use, all that is needed to make a road that will e excellent from six to ten months in a year, averaging about nine, is to keep the water from rising up under it, and provide a way for the rain to run off as it falls. The under waters are found where roads cross or follow sloughs. The wet spots, where the most hideous mudholes occur, are on the edges or way up on the top sides of these sloughs, and are caused tenement house.

GOOD ROAD PROBLEM.

by the rain soaking down through the upper fertile soil, and striking a vein of hardpan or impervious clay, and must therefore come out laterally. The remedy for this is under drainage, either with tile or with rock, laid either under the road-bed or alongside of it so as to eatch the water before it reaches the Management of Experienced Menpingeotties Sometimes Encountered in loles rendered dry and placed in excellent condition in all seasons of the ent condition in all seasons of the year, with an expenditure of not over five dollars in labor material. After these wet spots and seepy places have been removed in the manner above suggested, the road-bed should be thoroughly ploughed, harrowed and rolled until it is reduced to the finest possible with them. Traded to the finest possible tilth, then graded so as to allow the water to run off as it falls, and, as often as ruts are formed by passing teams in wet weather gone over with a road-grader when it becomes dry and kept in a smooth, well-rounded, oval shape. To secure this treatment of roads, two things must be done: provision must be made in the laws of the state that will allow the supervisor or whonver is in authorthe supervisor, or whoever is in authority, to find drainage through adjoining lands, wherever necessary, under the law of eminent domain. Unless this is done, narrow minded land owners will effectually prevent by unwise opposition any effective road drainage and beauty and province any recommendative and improvehence any permanent road improve-ment. Again, it is essential that the road districts be greatly enlarged to at least half a township, and better still, a whole township, and the manage-ment of the roads placed in the hands of a competent, practicel civil agriculture. of a competent, practical civil engineer; either a man who has spent years in acquiring scientific knowledge or some practical farmer who has good horse sense, an eye that is about as accurate as a full set of instruments under ordinary handling and an honest pride in seeing good roads in his township. It is needless to say that this supervision will require all taxes, whether land tax or poll taxes to be paid in cash, and the men who work the roads, whether that he farmers are not required to do

they be farmers or not, required to do a day's work for a day's pay in cash. This system will involve no greater outlay than is now expended, will proyide superb roads the greater part of the year and passable roads all the year except, as before stated, near large cities and mines, where, in addition to the above, some covering is necessary, and will prepare the way for the good roads of the future.

#### IDEAS AND INCIDENTS.

Only one person in 15,000 reaches the age of 100 years.

A device to prevent discoloration of piano keys has been invented.

A white mallard duck is on exhibition in a sporting goods house in San Francisco.

The Chinese have a superstitious dread of black and blue, but regard red as a lucky color.

The Regent diamond, the property of the French government, weighs 136 carats and is valued at 12,000,000

When a fine ruby is found in Burmah a procession of elephants, grandees and soldiers escorts it to the king's palace. Continued eigarette smoking is said

to have caused Frank Fitzgerald of Marlborough, N. Y., to lose his eyesight. He is totally blind. The odor of the blood rose of Jeffer-

son county, Florida, is very pungent and sickening. The dew which drips from it is of a bright pink color.

The capitol of Hartford, Conn., is of marble. Local engineers claim that it expands an inch to each 100 feet, being three inches longer in summer

The average of the persons whose obituaries appeared in the London Times during the course of a whole week last month was between eighty and eighty-six years, and such a record is said not to be uncommon.

Mr. Bauderau, a French scientist, has been studying the causes that have been gradually elevating the whole Scandinavian peninsula above the sea level, and concludes that the movement is due to the gradual warming up of that country.

Mention is made in a San Francisco paper of a single grapevine, seven years old, on the grounds of a private house in the city limits, which covers a space full seventy-five feet square and from which four tons of grapes have been gathered in one season.

The capitol at Washington has cost more than \$30,000,000. It covers three and a half acres, the dome is 307 feet high and 135 in diameter, and is exceeded in size only by St. Peter's in Rome, St. Paul's in London, the Invalides in Paris and St. Isaac's in St. Petersburg.

The state, war and navy departments at Washington occupy an enormous structure, erected at a cost of \$10,500,000, covering four acres of ground and having twenty acres of floor space. The treasury building cost \$8,000,000. The interior department buildings cover two large blocks of ground and its buildings cost

### MASCULINITIES.

Charles Grisword, over 62, of New Britain, Conn., is one of the best bicycle riders in his state.

The man who dresses to please his wife should never be asked to perform any further penance.

Friend-What became of that young man you were engaged to last summer? Miss Catchem, innocently-Which one?

"I feel now quite satisfied that there is no life so happy as a married one.' "And how long have you been married?" "Since last Wednesday."

The young men residents of Roberta, Ga., are talking of forming a club, and as each member of the organization marries the others are to give

Life is full of disappointments. Many a girl who expects to marry and settle down finds she has to settle way up on the top floor of a ten-story

# Take no Substitute for Royal Baking Powder. It is Absolutely Pure.

All others contain alum or ammonia.

Easter Egg Decorations.

Decorating eggs is an Easter amusement, and it is a good plan to save the empty egg-shells for this purpose some time beforehand. One way to prepare them for children is to break a small comming at each and and blow the constitution. opening at each end and blow the contents; then fill with very small candies and paste a gilt or a silver star over the openings. Be sure to allow the inside of the egg to dry thoroughly before

Other eggs may have laughing or frowning faces sketched on them. The eggs are pretty when placed in a little inexpensive basket before being presented on Easter morning. Mothers will take pleasure in preparing some edible eggs. Have the empty shells ready with but a small bit booken from the ends, and set them on end in oats or something that will keep them upright. Next make a quart of simple corn-starch blanc-mange and fill two or more shells. Other eggs may have laughing or

Now take a part of the mixture and color it with saffron and flavor it with lemon extract; fill more shells with this mixture and in the same way color a part with chocolate to make brown eggs, and with pink coloring and rosewater flavoring for pretty pink eggs. Every cook knows how to increase the colors and flavors, and when the mock eggs have cooled, break off the shells and arrange them on a low dish. Shells filled with maple sugar in the same way make a pretty gift to a child.

#### Deafness Cannot Be Cured

By local applications as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, Deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

faces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure. Send for circulars; free.

F. J. CHENEY & CO., Toledo, O.

Sold by Druggists, 75c.

Gave It Up.

A teamster kept beating one of his horses unmercifully, and the animal still refused to go forward. Unable to endure the sight of the lashes upon the horse, the lady of a neighboring house rushed out. Oh, is there any need of whipping him so—is there any use in it?" she inquired timidly, patting the stubborn animal's head. The teamster dropped his lash. No use at all, ma'am. he said in a tone of resigned despair.
"I've licked him till I'm tired out, and it ain't a bit of use."-Boston Trans-

The Modern Way Commends itself to the well-informed, to do pleasantly and effectually what was formerly done in the crudest manner and disagreeably as well. To cleanse the system and break up colds, headaches and fevers without unpleasant after affects, use the delightful liquid laxative remedy, Syrup of Figs.

The One Exception.

held out his glass after each dish was served, with the remark," My children, we must drink wine with this."

At the tenth repetition of the formula, "Pardon, M. le Cure," said one of the guests, "but with what would you not drink wine?"
"With water, my son."—Argonaut.

For Throat Diseases, Coughs, Colds, etc., effectual relief is found in the use of "Brown's Bronchial Troches." Price 25 cts. Sold only in boxes.

What is the oldest table in the world? The multiplication table.

Ask about the wonderful climate and resources of Southern California. There never was such and opportunity for home seekers. For information regarding this section, address, J. A. Allison, Brewster block, San Diego, California.

A bad man can never own anything that is fireproof.

Go South Via the Wabash Tourists' tickets now on sale to all points.

Homeseekers' tickets at half fare on excursion dates, April 1.1th and May 8th. For rates or folders giving full description of lands, climate, &c., call at Wabash Ticket office, No. 1502 Farnam Street, or write GEO. N. CLAYTON, N. W. P. Agt., Omaha, Neb.

The first American paper was made from straw in 1828.

Shakespeare has been a mine of wealth to authors in choosing titles to their books. Tersely descriptive are "The Quality of Mercy," "A Woman's Reason," "A Modern Instance," "The Undiscovered Country," which W. D. Howells found in the great dramatist. Mrs. Oliphant remembered her Shakespeare when she named one of her novels "The Primrose Path." Mr. Hardy must have been reading "As You Like It" when he called his book "Under the Greenwood Tree." Other writers have taken "Airy, Fairy Lillian," "A Daughter of the Gods" and "The Heir of the Ages" as titles from Tennyson.—Journal of Education.

Shileh's Consumption Cure
Is sold on a guarantee. It cure Incipient Consumption. It is the best Cough Cure. Sets. Sets. & \$1.00

The visitor at the boarding house was entertaining one or two of his friends at the piano, and two boarders were lis-

tening at the head of the stairs.

"Who's that at the piano?" asked one.

"Blamed if I know," was the reply;
"he hits the piano as if he were a blacksmith, but he murders the music like a butcher."-Detroit Free Press.

Beecham's Pills will dislodge bile, stir up the liver, curesick hesda hes, and make you feel well. 25 cents a box.

Everett Herald; A very funny thing happened at the play the other night, when Madeline Merli appeared in "The Story of a Kiss" The climax was reached where the double tragedy comes in the enamored lover of the interest woman slaw her with a stifatuated woman slew her with a sti-letto; she fell over on the sofa and expired, while he in a mad frenzy drained a glass of poison and ended his miserable career. Upon this thrilling finale the curtain dropped, but the audience retained their seats, uncertain whether or not the play was over. To settle the question a matter-of-fact youth went directly to the point by ascending the steps to the green room. Presently he reappeared and said, "That's all." The spectators laughed and left. They are still puzzling their wits to know whether they are dullards or whether the playwright made a poor finish.

EARLY CORN OVER 1 FOOT LONG. Salzer illustrates in a colored plate a new early corn, a giant of its kind, and offers \$300 in gold for the largest ear in 1894. In addition to this early Giant corn, which yielded in 1893 110 bushels per acre, he has over twenty other prolific field corns. He has the best fooder acre in the world. He is the largest corn in the world. He is the largest grower of farm seeds, such as oats, barley, wheat millet, potatoes, etc., in America. Fifty kinds of grasses and

clovers.

If You Will Cut This Out and Send It
With 15c to the John A. Salzer Seed Co., La
Crosse, Wis., you will receive a large package of above Giant corn and his mammoth
catalogue.

The devil can catch a grumbler with a

The Mid-Winter Fair a Success

To reach it take the only direct line, the Union Pacific.

Through first and second-class sleepers, diners. Our advertising matter tells you all about it.

E. L. LOMAX. Gen'l. Pass. & Tkt. Agt., Omaha, Neb.

On the Alps vinegar is made of milk

The original and only genuine. Cures Chapped Hand and Face, Cold Sores, &c. C. G. Clark Co., N. Haven, Cr. Members of the Austrian Parliament get

"Hansen's Magic Corn Salve."
Warranted to cure or money refunded. Ask your
druggist for it. Price 15 cents.

An ordinary piano contains a mile of wire.

California for Health, Pleasure and Profit If going for either, take the direct route, the Union Pacific.

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Send for our new 1894 pamphlets. All about the Mid-Winter Fair.
E. L. Lomax, Gen'l. Pass. & Tkt Agt.,
Omaha, Neb.

A woman without jealousy is like a without elasticity.

"In Mississippi there used to be a county where it was almost impossible to hold court. The lawless backwoods element would come into the county seat and break it up," said Neil Caruthers, a prominent attorney of that state, to a St. Louis reporter. "Judge Clarke once went there to hold court. The first day he had a bucket of water poured over him from a chimney hole in the roof, and several platol shots were fired in the court room.

"The next day, as he opened court,

were fired in the court room.

"The next day, as he opened court, he laid two large pistols on the desk and at the first sign of disturbance leveled the pistol at the man and conducted him to jail. After that there was no more disturbance, and the better element of the community were anxious that he should return the next term, but he declined with a sentence that but he declined with a sentence that has passed into a political proverb in Mississippi: 'I regard my coming into this county as an adventure; I regard my leaving it as an escape.'"

#### Variety Necessary.

The man who thinks a newspaper should be made up exclusively of reading matter suited to his particular and predjudices is pretty hard to please. He forgets that there are others interested in subjects which he deems obnoxious: All kinds of people read newspapers, and there must be variety in the kinds of news published.—Franklin (N. Y.) News. lin (N. Y.) News.

Persons who believe in luck and aigns will doubtless agree that ft is unlucky to be struck by lightning on Monday, or take hold of a circular saw in motion on Tuesday, or tumble down stairs with a coal scuttle on Wednesday, or be hit by a cable car on Thursday, or fall overboard on Friday, or marry on Saturday a girl who swings 10-pound Saturday a girl who swings 10-pound dumb-bells, or be one of 13 to dinner on Sunday when there is food for only 10.

Carpenters, and other mechanics, who are so apt to fall from scaffolds and dislocate a limb, will please remember that there is nothing so good for inflammation as Salvation Oil, the greatest cure for sprains and

Which river is the coldest? The Isis (ice

The bearer of good news always has a

The first book printed was the tible.

Any sudden change in the condition of the atmosphere is certain to bring its harvest of coughs and colds. These, if suffered to run on are likely to terminate in consumption; but they may be readily cured by Dr. Buil's Cough Syrup.

#### The Diplomatic Jap.

The Japanese minister at Washington the other day avoided an attempt to pronounce bronchitis by saying that his wife "was sick in the neck." No wonder the Japanese have an excellent reputation for skill in diplomacy.—Buffalo Courier.



Many times women call on their family physicians, suffering, as they imagine, one from dyspepsia, another from heart disease, another from nervous exhaustion, or prostration, another with pain here and there, and in this way they all present, alike to themselves and their easy-going and indifferent, or overbusy doctor, separate and distinct diseases, for which he prescribes his pills and potions, assuming them to be such, when, in reality, then are all only symptoms caused by some womb disorder. The physician, ignorant of the cause of suffering, encourages his practice until large bills are made. The suffering patient gets no better, but probably worse by reason of the delay, wrong treatment and consequent complications. A proper medicine, like Dr. Pierce's Favorite Prescription, directed to the cause would have entirely removed the disease, thereby dispelling all those distressing symptoms and instituting comfort instead of prolonged misery.

those distressing symptoms and instituting comfort instead of prolonged misery.

The lady whose portrait heads this article is Mrs. Ida Coventry, of Huntsville, Logan County, Ohio. She had an experience which we will permit her to relate in her own language. It illustrates the foregoing. She writes: "I had 'female weakness' very bad—in bed most of the time, dragging down pains through my back and hips; no appetite; no energy. The family physician was treating me for 'liver complaint'. I did not get any better under that treatment so I thought I would try Dr. Pierce's Favorite Prescription and his 'Golden Medical Discovery.' I felt better before I used one bottle of each. I continued their use until I took six bottles of each. In three months' time I felt so well I did not think it necessary to take any more. In childbirth it does what Dr. Pierce recommends it to do—lessens the pain and perils to both mother and child and shortens 'labor'. I would like to recommend Dr. Pierce's Extract of Smart-Weed to those who have never tried it; it surely is the best thing for cholera morbus, or pain in the stomach I ever used; it works like a charm. I try never to be without it."

The following is from Mrs. Harriet Hards, of Montpelier, Idaho: "I have enjoyed better health since I began treatment with Dr.

Pierce's Favorite Prescription, for leucorrhea and uterine debility than I have for sixteen years. I am cured of my trouble, and now weigh one hundred and sixty-six pounds, whereas my weight for many years stood at one hundred and twenty-five pounds, With pleasure, I remain."

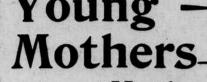
## Mrs Harriet Hards

The following is from Mrs. M. A. McAllister, of Lim Rock, Jackson Co., Ala.: "I was in bad health; age was working upon me, and I had ulceration of the womb; could not get about. I took Dr. Pierce's Favorite Prescription and it cured me; I felt ten years younger. I have not had any return of my trouble. I am the mother of thirteen children and I am fifty-three years old, have never seen a better woman's friend than your medicine. I have recommended it to my friends here, and it has never failed in any case, so let me thank you for the good it did me." Yours truly,

Me A Me Allister
For "worn-out," "run-down," debilitated
chool teachers, milliners, dressmakers, seamtresses, general housekeepers, and overcorked and feeble women constally. school teachers, milliners, dressmakers, seamstresses, general housekeepers, and overworked and feeble women generally, Dr.
Pierce's Favorite Prescription is the best of
all restorative tonics. It is not a "cure-all,"
but admirably fulfills a singleness of purpose, being a most potent specific for all
those chronic weaknesses and diseases peculiar to women. It is a powerful, general as
well as uterine, tonic and nervine, and imparts vigor and strength to the whole system.
It cures weakness of the stomach, indigestion, bloating, nervous prostration, hysteria,
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pages, Illustrated), on "Woman and HerDiseases," sent sealed in plain envelope, on
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Chronic Cases of Many Years Cured Easily. We Offer You a Remedy Which Insures Safety to



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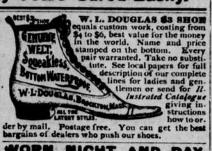
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"After using one bottle of 'MOTHERS' FRIEND,' I suffered but little pain, and did not experience that weakness afterward usual in such cases.-MRS. ANNIE GAGE, Baxter Springs, Kas.

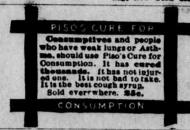
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