

# ROAD AND FARM IMPROVEMENT

## GOOD ROADS IN JERSEY.

State and Counties Building Them at the Rate of One Hundred and Fifty Miles a Year.

Good-road building is probably making greater progress in New Jersey than in any other state in the union. Ten years ago the legislature passed a state aid bill permitting each county to spend on road improvement an amount equal to one-fourth of one per cent. of its taxable property.

In the following year four counties out of the 23 in the state built together nearly 75 miles of road. Last year 17 counties built their quota of roads, completing during the year nearly 136 miles of sound, level highways.

Since the passage of the act more than \$12,500,000 of the state's money has been spent on good-road building and more than 700 miles of roads have been constructed under the most approved modern methods. The work is so popular that there is a demand to double the amount permitted to be expended on the roads under the law. The last legislature increased the state's contribution from \$150,000 to \$250,000, and the counties met this with their own appropriations.

At present petitions to build 500 more miles of roads, at an estimated cost of \$2,404,351, are on file and provided the state appropriation is liberal enough to meet the amount expended by the counties, in a few years all the leading roads can be covered with gravel and stone.

## HOW TO LIFT POSTS.

An Easy Thing to Do, Provided One Knows Just How to Tackle the Work.

A crowbar, chain and two-foot piece of post as shown in the illustration make an excellent and convenient device for lifting and removing posts.

Hook the chain around the post and the other end over the end of the bar, taking a short purchase, and then pull down as indicated by the arrow. Farm and Home.

## Milk Exposed to Odors.

Besides bad fermentations, there is another cause of poorly flavored butter, says Oscar Erf. This comes from cream or milk having been exposed to foul odors, which are absorbed and given to the butter. The theory that milk does not absorb odors when warm and cooling has long been abandoned. Experiments show that milk in that condition is even more susceptible to odor than in any other state. In the ripening process this odor can be partly eliminated by aeration or by pasteurization of the cream, but in case of a bad fermentation some antagonistic germ must be added in order to check the progress of the undesirable one. This antagonistic fermentation is commonly known as a starter, and if properly prepared contains the right kind of flavor producing bacteria.

## Harvesting the Hay Crop.

It is a very desirable thing to be able to haul all the hay into the barn the same day it is cut. The work is hard and anxiety consequent upon the liability of a storm before morning are thus avoided, and experience has taught that hay having no more than three or four hours' sun will come out in the spring perfectly sweet and in fine condition for the cattle. In adopting this plan it is well to keep the hay constantly stirred with a feeder. There has long been a fear of putting hay into the barn that contains a noticeable amount of water, but if it is properly packed by being evenly distributed over the mow, each forkful trodden upon and the barn kept closed as much as possible the result will probably be very gratifying.

## The Cost and the Profit.

Profit depends upon circumstances. The hen that lays the largest number of eggs does not always give the greatest profit. One dozen eggs in winter, at 30 cents a dozen, permits of a greater profit than two dozen when eggs are 15 cents a dozen. The sum derived is the same, but it costs less to produce one dozen eggs than it does to produce two dozen, and although the same amount of money is received in both cases, yet the profit is not what is desired in the gross sum; but that which is profitable above the cost; hence, a hen is profitable according to the season during which she lays the greatest number, and the price obtained therefor. In summer, however, the eggs may cost nothing if the hens are on a range.—Farm and Home.

## THE PEDIGREE SYSTEM.

By It American Stock Has Been Brought Up to Its Present Standard of Excellence.

We often hear farmers and stockraisers say that they care nothing for pedigree. They forget that it is by a system of registration that well-bred animals have been brought up to their present high standard of excellence, and that the pedigree is a guarantee that the animal is what is claimed for it; it stands, as a rule, for individual merit. If it were not for the pedigree system, farmers would often be imposed upon by unscrupulous breeders, by having half-bloods or grades put off on them as full-bloods. Grade animals have passed with many as full-bloods, and, in fact, from their appearance, they sometimes pass the most careful observer, as genuine. High-grade animals are quite as good in many respects as full-bloods—but they are not good breeders. They cannot be depended upon to stamp their good qualities upon their offspring.

The full-blood is prepotent over the grade animal, and to grade up a herd you must use full-blood males; to secure the new blood is genuine, require a pedi-

grees. This must, of course, be backed up by good individuality. It is true enough that an inferior animal cannot be made a valuable one by pedigree alone. But the good individual whose registered family history shows a line of ancestry from which those excellent qualities have been inherited, can be trusted to transmit the favorable traits to his offspring. While undoubtedly too much stress is often laid on pedigree alone, it will be a fortunate day when more farmers come to a realization of the importance of the pedigree. We shall then look for a marked improvement in the quality of the animals found on the farm.

—W. J. Hayes, in Midland Farmer.

## CHEAP STOCK SCALE.

How the Farmer Keeps Track of How Much His Hogs Gain From Week to Week.

I have an ordinary platform scale that I used to weigh stock to note the gain. I first started weighing vegetables and then to weigh pigs, so now I weigh feed and hogs every week and can tell how much they gain and how much feed it takes to make that gain.

In weighing hogs I use a crate made of 1x4 slats, with a scale at each end. I put the crate with one end at the hog nose door, balanced on a platform scale with blocks underneath to prevent



## FOR WEIGHING STOCK.

feeder, open gate in hoghouse end of crate and let in as many as the scale will hold. After weighing, I let them out of the front end and I am ready to weigh again. In this way two men can weigh 40 hogs in about half an hour, after everything is ready.

For weighing cattle, I take two pieces 2x10 inches eight feet long and cleat them together and lay across the scale as in cut and lead the animal on to it. If the animals are not gentle you can set four posts in the ground, nail 2x4s on them, so as to make a chute to lead them through onto the scale. The corner of frame (a) must be made very strong. The piece (b) may be made movable at both ends if desired. Extra weights can be had at any scale house.

—C. J. Davidson, in Farm and Home.

## Patterning Horses for Sale.

Patterning horses so that they will reach market in good condition for sale is quite an important industry in some regions, says C. F. Langworthy. For instance, in Iowa, there are a number of feeders who thus prepare large numbers of horses for the Chicago market, and officials of the Iowa experiment station have gathered some data on the subject. The general practice is to feed generously and give little exercise. With proper feeding and care, as many as a dozen horses of a lot fed for market save in some instances made an average gain of 3.75 pounds per head per day. Somewhat larger gains have been made under exceptional circumstances, throughout a period of 90 days.

## A Bath for Hogs.

A breeder thus tells how he prepared a bath for swine: "Some years ago we tried an experiment by making a shallow bath, four feet wide and ten feet long, of planks, with sides eight inches high. This, being bedded in puddled clay, was easily made water-tight. The whole thing did not cost more than three hours' labor. Water was pumped from a stock well near by and run into this bath by a spout. Gravel was placed some inches deep around the bath to prevent mud. The water was drawn off and the bath refilled every day. The pigs did not require any teaching. We have seen seven pigs in it at once, and the others trying to root them out so they could get possession."

## Terrier Has Queer Family.

A pup, a pig and a lamb constitute the family of a yellow terrier belonging to R. L. Hixon, of St. Joseph, Mo. The pig and lamb are adopted, but they seem to have as much care and attention as the attention of the mother terrier as the pup. There were three pigs in the litter, but two of them died. The terrier at once adopted the pig and the lamb, and now in the utmost harmony they go about the place together contentedly, exhibiting a queer freak of animal affection.

## DO YOU GET UP WITH A LAME BACK?

Kidney Trouble Makes You Miserable.

Almost everybody who reads the newspapers is sure to know of the wonderful cures made by Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy. It is the great medical triumph of the nineteenth century, discovered after years of scientific research by Dr. Kilmer, the eminent kidney and bladder specialist, and is wonderfully successful in promptly curing lame back, kidney, bladder, uric acid, troubles and Bright's Disease, which is the worst form of kidney trouble.

Dr. Kilmer's Swamp-Root is not recommended for everything but if you have kidney, liver or bladder trouble it will be found just the remedy you need. It has been tested in so many ways, in hospital work, in private practice, among the helpless too poor to purchase and has proved so successful in every case that a special arrangement has been made by which all readers of this paper who have not already tried it, may have a sample bottle sent free by mail, also a book telling more about Swamp-Root and how to find out if you have kidney or bladder trouble. When writing mention reading this generous offer in this paper and send your address to Dr. Kilmer & Co., Birmingham, N. Y. The regular fifty-cent and one-dollar bottles are sold by all good druggists.

Don't make any mistake, but remember the name, Swamp-Root, Dr. Kilmer's Swamp-Root, N. Y., on every bottle.

Health is Our Best Business Asset.

and pleasure is hard to find without it. And like machinery, our digestive organs become clogged, rusty, nervous, or sore, stomach, flatulency, heart burn, short breath, bad taste in your mouth, constipation and other well known symptoms of indigestion set all schemes of American health today

Indigestion

## One Minute Cough Cure

For Coughs, Colds and Croup.

# Free! ABSOLUTELY Free!

## Hundreds of Dollars in Valuable Prizes—Free for All.

WE ARE DETERMINED to double last season's business. We propose to sell good clothing cheaper than ever offered in Lynchburg. Now, you will naturally ask, how can you do this and give so many valuable prizes? Simply this—it you will help us double our business—with same rent, same taxes, and almost same expense all through, we can afford to divide with you. We think this a liberal, common sense proposition. We don't believe in excitement, something for nothing; we talk common sense to sensible people. Our plan (to be brief) is this: From now until April 1st, 1904, we will give a numbered Coupon with each \$1.00 purchase at our store; the duplicate of the number will be placed in a box, locked securely, and on April 1st a committee of reliable farmers, one from each county, will come to Lynchburg at our expense to do the drawing. We don't believe in half-way doing things; our offer is a giant, never before equalled by any firm. Something for each member of the family and for ALL THE FAMILIES YOU will have a chance at one or all of the following valuable prizes, purchased from the most reliable firms in this city.

- FIRST PRIZE.** \$100 Buggy and Harness, from the Lynchburg Buggy Co., manufactured by the Hughes Buggy Co.
- SECOND PRIZE.** A \$40 Gold Watch, from H. Silverthorn Co.
- THIRD PRIZE.** A \$40 Buck Range, from Ainslie & Martin.
- FOURTH PRIZE.** A \$25 Ladies' Tailor-Made Suit, from J. R. Miller Co.
- FIFTH PRIZE.** A handsome Roll Top Desk, from the Lynchburg Furniture Co.
- SIXTH PRIZE.** A \$25 Talking Machine, from the Lynchburg Piano Co.
- SEVENTH PRIZE.** A \$51 one-horse Farm Wagon, from the Taylor Wagon Works.
- EIGHTH PRIZE.** A full course at the Piedmont Business College, \$60.
- NINTH PRIZE.** One fine \$20 Suit from Schloss Bros. & Co., Baltimore.
- TENTH PRIZE.** A \$16 Acetylene Lamp, from A. Umboltz.
- ELEVENTH PRIZE.** A \$10 Ladies' Hat, from Miss Ann Broyles.
- TWELFTH PRIZE.** \$10 worth of Medicine or anything sold by Dr. E. A. Williams.
- THIRTEENTH PRIZE.** \$15 worth of Laundry Work, by Antiseptic Laundry.
- FOURTEENTH PRIZE.** Five gallons of best Oysters, from the Smith & Wood Co., \$7.00.
- FIFTEENTH PRIZE.** One pair gold-rimmed Eye Glasses or Spectacles, and examination of eyes, by Dr. E. A. Williams, \$10.
- SIXTEENTH PRIZE.** Five pounds of best Tea and five pounds of best Candy, by W. O. Johnson.
- Think of it, over \$500 worth of prizes, and you have a chance at them all by simply buying clothing of us, and saving money on every purchase besides. Now, if you will help us by your patronage we will add many more valuable prizes before the drawing.
- Nothing cheap or shabby in them; all the best the market affords, for the firm we purchased them of are the very best, for example:
  - "Dick" Nelson of the Lynchburg Buggy Co., sold us the Buggy and Harness. They have the best.
  - The Watch from the old reliable H. Silverthorn Co. "Noir" says.
  - The \$25 Farm Wagon from Ainslie & Martin, of Baltimore. "The best money ever spent."
  - The \$100 Buggy from the Hughes Buggy Co. "Noir" says.
  - The \$51 one-horse Farm Wagon from the Taylor Wagon Works. "The best money ever spent."

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Absolutely Pure, Smooth and Mild.

Packed in plain case bearing no marks to indicate contents.

Pennsylvania and Mountain Rye only \$2.00 per gallon. Virginia made Apple Brandy \$2.00.

Full Quarts express prepaid by me, Only \$3.00.

Corn Whiskey \$1.50 and \$2.00 per gallon. No charge for packing. Send for Price List.

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are honest and dependable. We sell shoes that are better and different from others. If you are looking for a good, medium-price shoe, look no further. Come here and we'll

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# BIGBIE BROS. & CO.,

Importers and Wholesale Liquor Dealers, LYNCHBURG, VA.

- TWENTY-FIRST PRIZE.** Ten dollars' worth of choice Fresh Meats, from Jno. S. Shaver, City Market.
- TWENTY-SECOND PRIZE.** Ten and a half dollars—\$100 "Crown of Cuba," manufactured by R. H. Shepherd, Jr., wholesale and retail cigar dealer.
- TWENTY-THIRD PRIZE.** Five dollars—one barrel of the celebrated "Monitor" Patent Flour, from T. A. Jennings Co.
- TWENTY-FOURTH PRIZE.** Five dollars—one barrel on the celebrated "Monitor" Patent Flour, from T. A. Jennings & Co.
- TWENTY-FIFTH PRIZE.** Fifteen-dollar pair fine Pictures, from Moose Bros. Co.
- TWENTY-SIXTH PRIZE.** A genuine \$10 Panama Hat.
- TWENTY-SEVENTH PRIZE.** A full year's membership of the Y. M. C. A., the greatest and best institution in Lynchburg for young men. Privileges of Baths Daily, Gymnasium, Reading Room, Library, Socials, Entertainments, Games. Open every day and night—9 a. m. till 10 p. m.
- TWENTY-EIGHTH PRIZE.** Fine \$20 Suit.
- TWENTY-NINTH PRIZE.** Fine \$45 pair Pants.
- THIRTIETH PRIZE.** Fine three-dollar Blue Ribbon Hat.

# SEABOARD

AIR LINE RAILWAY

Short line to principal cities of the South and Southwest, Florida, Cuba, Texas, California and Mexico, connecting the Capitals of six States.

SCHEDULE IN EFFECT APRIL 12, 1903.

TRAINS LEAVE RICHMOND—MAIN STREET STATION—DAILY.

9:30 A. M.—Local for Norfolk, Hamlet and Charlotte.

10:30 P. M.—Seaboard Mail—To Henderson, Raleigh, Southern Pines, Hamlet, Jacksonville, Columbia, Savannah, Jacksonville, and Tampa Pullman Drawing-Room Sleeping Cars, between New York Jacksonville, connecting at Hamlet with through Pullman cars for Atlanta.

10:55 P. M.—Seaboard Express—To Henderson, Raleigh, Southern Pines, Hamlet, Jacksonville, Columbia, Savannah, Jacksonville, and Tampa Pullman Drawing-Room Sleeping Cars, between New York Jacksonville, connecting at Hamlet with through Pullman cars for Atlanta.

TRAINS ARRIVE AT RICHMOND—DAILY.

6:30 A. M.—No. 31—From Florida, Atlanta and the Southwest.

10:30 P. M.—No. 32—From Florida, Atlanta and the Southwest.

10:55 P. M.—No. 33—From Norfolk and local points.

W. J. MAY, City Ticket Agent; H. S. LEADY, District Pass Agent, 30 Main Street.

T. M. R. TALCOTT, Receiver. FARMVILLE & POWHATAN RAILROAD

Time Table in effect Saturday, Oct. 24, 1903. Between Farmville and Richmond via Southern Railway.

Mondays Daily except Sunday.	Tuesdays Daily except Sunday.	Wednesdays Daily except Sunday.	Thursdays Daily except Sunday.	Fridays Daily except Sunday.	Saturdays Daily except Sunday.
4:30	8:30	Farmville	4:25	8:25	Farmville
4:40	8:40	Haines	4:35	8:35	Haines
4:50	8:50	Hawthorn	4:45	8:45	Hawthorn
5:00	9:00	McLain's	4:55	8:55	McLain's
5:10	9:10	Cumberland	5:05	9:05	Cumberland
5:20	9:20	Tolacoville	5:15	9:15	Tolacoville
5:30	9:30	Beltom	5:25	9:25	Beltom
5:40	9:40	Baltimore	5:35	9:35	Baltimore
5:50	9:50	Macon	5:45	9:45	Macon
6:00	10:00	Powhatan	5:55	9:55	Powhatan
6:10	10:10	Negro Arm	6:05	10:05	Negro Arm
6:20	10:20	First Rock	6:15	10:15	First Rock
6:30	10:30	Richmond	6:25	10:25	Richmond
6:40	10:40	Richmond	6:35	10:35	Richmond
6:50	10:50	Richmond	6:45	10:45	Richmond
7:00	11:00	Richmond	6:55	10:55	Richmond
7:10	11:10	Richmond	7:05	11:05	Richmond
7:20	11:20	Richmond	7:15	11:15	Richmond
7:30	11:30	Richmond	7:25	11:25	Richmond
7:40	11:40	Richmond	7:35	11:35	Richmond
7:50	11:50	Richmond	7:45	11:45	Richmond
8:00	12:00	Richmond	7:55	11:55	Richmond
8:10	12:10	Richmond	8:05	12:05	Richmond
8:20	12:20	Richmond	8:15	12:15	Richmond
8:30	12:30	Richmond	8:25	12:25	Richmond
8:40	12:40	Richmond	8:35	12:35	Richmond
8:50	12:50	Richmond	8:45	12:45	Richmond
9:00	1:00	Richmond	8:55	12:55	Richmond

Between Farmville and Richmond (Via Atlantic Coast Line Railroad)

Daily except Sunday.

Stations	Arr.	Dep.
11:42	Winterport	2:47
11:52	Coalhoro	2:59
12:02	Richmond	3:10
12:12	Richmond	3:20
12:22	Richmond	3:30
12:32	Richmond	3:40
12:42	Richmond	3:50
12:52	Richmond	4:00

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