

## ROCK ROADS—ROCK VALUES.

### Kansas City Banker Points Out Money Value of Good Roads.

Kansas and Missouri are very active in building good highways—"rock roads," as they are called in that country, where limestone is the handiest material. One of the good roads boosters is W. S. Webb, a Kansas City banker, and he puts year round highways in terms of banking.

"We bankers will lend \$10 to \$25 an acre more on a farm situated on a rock road," he says. "Bankers in this neighborhood are keen judges of farm values. Most of them have farms as places for rest and play. Few bankers are good farmers when it comes to making actual profits on crops, but their farming pays handsomely in health and in understanding of the problems confronting farmers, with whom we do much of our business."

"The first thing the banker does when you approach him for a loan on farm property is to determine the selling value of the farm. He will lend you half the selling value, and he arrives at the selling value by ascertaining three things:

"First.—The soil, its character, condition and producing capacity, for a fertile farm in good till will grow crops, no matter where located or what the nature of its improvements.

"Second.—Its location, which means convenience to markets, schools, stores and other factors that increase value. Here is where the kind of road running past the farm plays a big part.

"Third.—Buildings and improvements. These are all estimated in actual money. The money estimates are added. The total represents the selling value of the farm, and the banker will lend half of that.

"Suppose the land is set down as worth \$10 an acre. If it is located on a rock road over which the owner can haul crops any month in the year the banker will add \$10 an acre for that item. Probably the buildings will not come to more than \$10 an acre, so the hard road is worth as much as the buildings in actual money. The total selling value of that farm is \$30 an acre, and the banker will lend \$15. On land worth \$100 an acre a hard road adds \$25."—Country Gentleman.

day each. All cracks or spalled joints are cleaned with wire brooms and then filled with tar heated to about 225 degrees F. This is allowed to stand for a few minutes to prevent bubbling and is then covered with clean, coarse, dry sand, spread with a shovel, an excess of tar and sand being used and the traffic allowed to smooth it out. Potholes are treated in a similar manner. The material used is a special mixture of tar, which has a melting point of about 85 degrees F. A hole or crack that does not extend through the road, but is over an inch in depth, is cleaned and dried out, painted with hot tar and filled with stone of a suitable size, graded as nearly as possible to fill the voids. This is tamped or rolled in place, after which it is covered with hot tar, enough being used so that most of it will be taken up by the remaining voids. Coarse dry sand is then shoveled over the surface.

### Indorse County Road System.

The State Highway Officials' Association of New Mexico has indorsed the state highway commission and the county road board system. It was recommended that where necessary for the sake of harmony a member of the board of county commissioners be appointed on the road board. The United States department of agriculture was requested to make provisions for an advance of \$2,000,000 annually for building roads in the national forests of New Mexico. Congress also was urged to pass a joint memorial granting 2,000,000 acres of public lands in New Mexico for highway purposes.

### The Word "Gent."

At one time the word "gent" was a reputable term for general use. A respectable writer in 1564 tells of "a supper to divers gentlemen of the Gray's lane for the great amitie between them and the Middle Temple gents." The diarist Evelyn speaks of "the noise and tumult occasioned by three or four wild gents in drink." Soon after Queen Victoria's accession "gents" became vulgar. Thackeray speaks of it in 1842 as an "affectatione diminutive much in use among commercial persons."

### A Schoolboy's Story of Jonah.

A school board boy, competing for one of the Peck prizes, evaded this confusion of widely different events. He had to write a short biography of Jonah, and he produced the following: "He was the father of Lot and had two wives. One was called Ishmael and the other Hagar. He kept one at home and turned the other into the desert, when she became a pillow of salt in the daytime and a pillow of fire at night."—From Wheatley's "Literary Blunders."

### Three Men.

When H. H. Rogers was in the prime of his power, says a New York writer, he formed a "friendship partnership" with Mark Twain and Thomas Brackett Reed and took personal charge of their affairs, looking after them as he would a couple of children. It was great fun for all three, and especially Rogers. Neither Clemens nor Reed had any sense for business. The big ex-speaker came to New York a poor man. Five years later he died suddenly, and his estate assayed over \$900,000. He probably had no idea what he was worth at any stage. Rogers made as much or more money for Clemens.

### Beginning of the Germ Theory.

Agostino Bassi, a country doctor in the north of Italy, early in the last century was the starter of the germ theory of disease. At that time a peculiar disease was killing the silkworms, bringing ruin to the whole silk country of Italy. Bassi, by the microscope, discovered the germ which is the cause of the disease. The germ later was named Botritis tussiana. Bassi believed and stated that human diseases were also caused by germs. Bassi's work was sneered at and pushed by his fellow men and physicians, and he failed to make a lasting impression, thereby losing great glory for Italy.

## THE LAND'S FIRST NEED.

Fertility is the first word in farming. It is the first consideration in placing a value on new lands. It is first mentioned when old farms are sold. It is the first problem that confronts the beginner as well as the expert who takes up the cultivation of new crops on new fields. It is first in a list of questions asked by those seeking help in farming. The solution of the fertility problem makes many other problems comparatively easy to solve.

The quick and easy way to get fertility is to buy it. It can be had in bags in the form of commercial fertilizers or by the carload in the form of animal manure.

But this method of fertilization requires cash capital and does not fulfill all the needs of the land. Since we have learned that a fertile soil is a mixture of mineral and vegetable substance, teeming with germ life, fermenting with innumerable minute plants and chemical changes, we have learned that a soil needs more than mere mineral plant foods to enable it to grow the maximum crops.

It has long been known that legumes and green manures are beneficial to soils, but only recently have we learned to use these green manures to build a soil up permanently and to keep it up at the lowest cost.

## SAVE FERTILIZER ELEMENTS.

### Ingredients Existing in the Soil Should Be Utilized and Developed.

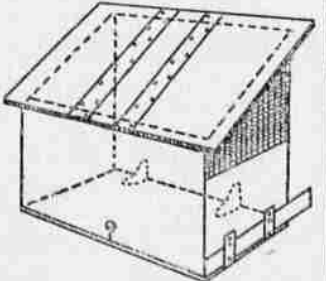
In the unusual conditions existing in the fertilizer trade, says a statement just issued by the secretary of agriculture, it is important that all fertilizing materials on the farm, especially those containing potash, should be conserved. The fertilizer ingredients already existing in the soil should be utilized and developed to the fullest extent. A great deal can be accomplished in this direction by deep plowing, constant cultivation and thorough tillage. There should be a proper system of rotation. Especially where one crop has been grown for several years a different one should be planted this year. Green manures and cover crops should be used as much as possible in their proper rotation.

Of the organic substances manure, both solid and liquid, is the most important and should be utilized when ever possible. All material of an organic nature, such as leaves and bedding of various sorts, should be composted and the compost applied to the soil. Special attention should be given also to the conservation of wood ashes. Depending on the character of the wood, they contain potash in quantities varying ordinarily from 3 to 10 per cent. All tree trimmings, brush cuttings, etc., should be burned and the ashes derived therefrom utilized.

The application of lime to many soils is of undoubted benefit. Though the availability of the fertilizing elements in the soil may not be greatly increased by its use, the resulting improvement in physical and bacterial conditions may increase considerably the productiveness of the soil.

### A Screen Coop.

This drawing shows the plan of chicken coop we designed and have been using the last ten years. The coops are made in the winter time when the men are not busy with other work. They are made of twelve and six inch soft pine boards. They are twenty-three inches long, eighteen inches wide, eighteen inches high in front and a foot high at the back. The roof extends over the side walls about three inches on all sides. The floors are hinged on, as shown, and the coops are painted inside and out. Wire screen is



put in the ends, as shown, to provide ventilation. The little slide door permits chicks to come and go. The material in each coop costs about \$1. We use the coops from year to year, as they are cleaned out every fall and put away in a dry place during the winter. I have never yet lost a chicken in these coops, either by drowning, smothering or through having some animal get in.—Mrs. S. M. Gephart in Farmer's Mail and Drover.

### Value of Cats.

When cats are no more expensive than corn; pound for pound, wise poultrymen will feed a fair proportion of this vigorous building food. That put quality into the muscle and nerve tissue of horse and hen.

### Bush Fruit in Winter.

Currants and gooseberries are sometimes broken by the weight of heavy snow. If the branches are drawn together and tied with coarse cord this danger will be obviated.

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Calapooia, Roy Stearns.....Oakland  
Canyonville, J. M. Gross, Canyonville  
Civil Bend, I. B. Nichols.....Brookway  
Coles Valley, H. F. Hebard.....Umpqua  
Comstock, Roy Griggs.....Comstock  
Cow Creek, J. R. Pickett.....Azalea  
Days Creek, Mrs. Jennie DeWald

.....Days Creek  
Dixonville, J. F. Bonebrake Dixonville  
Drain and Pass Creek, Lester  
L. Wimberly.....Drain  
Drew, Mrs. Mabel J. Monroe.....Drew  
East Umpqua, John Alexander, Glide  
Elkton, A. R. McDonald.....Elkton  
Elkhead, W. A. Porter.....Yoncalla  
Gardiner, Ernest Haskell.....Gardiner  
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Gunter, J. O. Gunter.....Gunter  
Happy Valley, M. L. Moore Roseburg  
Kellogg, Geo. F. Miller.....Kellogg  
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Millwood, R. R. Clarke.....Millwood  
Mt. Scott, Will J. Thornton

.....Dixonville  
North Myrtle, Chas. W. Rice

.....Myrtle Creek  
South Myrtle, Kitt Ackert

.....Myrtle Creek  
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.....Riddle  
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Olalla, Henry Croucher.....Olalla

.....Pass Creek and Drain, Lester L.  
Wimberly.....Drain

Perdue, Amos O. Bucker.....Perdue  
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Riddle and Nichols, Will Q. Brown

.....Riddle  
Reedsport, Mary Lyons, Reedsport  
Scottsburg, Emma Hedden,

.....Scottsburg  
East Sutherlin, Mark N. Tisdale

.....Sutherlin  
West Sutherlin, Mark N. Tisdale,

.....Sutherlin  
Soldiers' Home, R. H. Grinstead

.....Roseburg  
Tiller, C. DeF. Bartram.....Tiller

Wilbur, G. W. Grubbe.....Wilbur  
West Fork, Mrs. Winnifred Barry

.....Dothan  
Yoncalla, John J. Meizer, Yoncalla

Voters residing in the following named precincts will register at the office of the county clerk:  
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