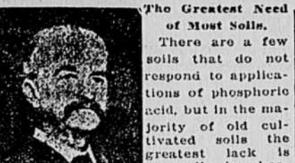


# WITH THE FARMERS

By Prof. W. F. MASSEY



**The Greatest Need of Most Soils.**

There are a few soils that do not respond to applications of phosphoric acid, but in the majority of old cultivated soils the greatest lack is generally in phosphorus, and we get this in the natural combination with lime as in the pulverized phosphate rock or in the same rock dissolved in sulphuric acid, making a superphosphate, commonly called acid phosphate. In the making of this acid phosphate there is of necessity produced a considerable amount of sulphate of lime or plaster, and in most samples of acid phosphate this will amount to about 30 per cent of the whole.

A long continued use of acid phosphate is apt to result in acid phosphates in the soil, not because of free acid in the phosphate, for manufacturers try to avoid this, as it makes the article hard to drill. But when it is applied to the soil the phosphoric acid, rendered available, is used up by the plant roots, and the combination broken up and the sulphuric acid set free. This at once combines with the lime in the soil, forming sulphate of lime or plaster. This sulphate of lime does not sweeten the soil as the lime carbonate does, and the result is that the soil is robbed of lime and becomes acid, and that is the condition of nine-tenths of our old cultivated lands, where acid phosphate has been applied annually for years. The remedy is liming. All over the country where red clover formerly thrived there have been complaints of failure, and this failure is in almost every case due to the acid condition of the soil. Sweeten it with lime and clover thrives again.

**How Often to Lime Land.**

Where the farm is cultivated in a systematic rotation and clover and other legumes grown, I would lime every time the land comes in corn after a sod. If one is growing a three-year rotation, a lighter application of about 150 pounds an acre will answer. But in a longer rotation of five or six years, I would use 1,000 pounds an acre. A moderate application at frequent intervals is better than a heavy one at long intervals. But lime will never make poor land rich, and if one does not keep up the humus or organic decay in the soil, he may impoverish it with liming. There is no saying, then, that one enriches the father and impoverishes the son, and in many sections where the farmers formerly thought that all they had to do was to lime heavily, they have learned their error. I know of one county in Pennsylvania where when I was there as a college student, the farmers applied 150 to 200 bushels of lime an acre in that same county to-day the area which would apply more than twenty-five bushels is considered rash.

**Cowpeas for Hogs.**

"How many hogs can I pasture on an acre of cowpeas, and for how long?" This is rather indefinite, for an acre of peas on one acre may be far heavier than on another, and one variety of peas, making more seed than another will have a higher feeding value. Hence it is hard to give a precise reply. I have, however, happened on a report from the Missouri Experiment Station, which says that after five years' use of cowpeas for hogs they showed an average pasturage of 32.3 days a year, and during that time pastured an average of 1.7 hogs an acre, and during the pasturing of 22.3 days made 331.9 pounds of pork, while soy beans gave but thirty-one days' pasturage. The Missouri station also says that there is no forage crop that will make as much pork an acre as alfalfa. They say that it can be moderately pastured and still make two crops of hay. My own opinion has been that pasturing alfalfa, especially with hogs, is about the best way to terminate it. They claim that the alfalfa can be pastured by 10.3 hogs an acre for 163 days in the year, and will make 1,319 pounds of pork an acre. But it is a puzzle to me if the hogs can pasture on it for 163 days where the two crops of hay come in. Doubtless alfalfa is good for hogs, but if I had a good lot in alfalfa I would not use it for hogs unless I determined to give it entirely to the hogs and make no hay.

**Alfalfa for Chickens.**

A neighbor of mine amuses himself in his mature years by keeping hens on what in other people's lots

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**TWO DAYS**

**Labor Day**

**Excursion to Washington**

Via R. F. & P. R. R.

Monday, September 1, 1913.

Trains leave Norfolk and Hancock Streets Monday morning, 9 A. M. Returning, leaves Washington Tuesday, September 2, 6 P. M. Round trip fare, Richmond to Washington \$2.75. Train stops at all regular stations.

J. M. THOMPSON & Co., Managers.

**Hedgepeth Easy for Ryan's Tars**

But for Misplays, Goobers Would Have Been Shut Out by Norfolk.

Norfolk, Va., August 29.—Norfolk had little trouble hitting Hedgepeth to-day, when runs were needed, and but for errors by Steinbrener would have blanketed Petersburg.

Steinbrener, despite the errors he made, put up a fast game at the second station. Twice when Petersburg had men on bases the young second-sacker ran behind the bag and out in the grass and picked up apparently safe hits in time to throw the runner out at first. He lost and then won the game for Norfolk, because it was his two-bagger that gave the locals their first run.

Jack Shenn, for Norfolk, pitched big league ball at times and again he threatened to throw the game away by his wildness. It was in the ninth inning he showed his real ability as a pitcher.

With three men on bases, Shenn struck out Hedgepeth, Cooper and Damrau in a row and the game was won. Score:

Petersburg.		Norfolk.	
AB.	R. H. O. A. E.	AB.	R. H. O. A. E.
Krepps, 2b.	3 0 0 1 4 0	Long, cf.	4 0 0 1 0 0
Busch, ss.	3 0 1 4 3 0	Gray, ss.	4 0 1 1 1 0
Damrau, 3b.	4 0 0 2 0 0	Kirch, 1b.	4 0 0 4 0 0
Spencer, c.	4 0 0 2 0 0	Stewart, c.	3 1 3 1 0 0
Barnett, 1b.	2 0 0 10 1 0	Vandine, 3b.	2 1 3 0 1 0
Brennegan, c.	3 1 0 2 3 0	Schrader, 1b.	2 1 1 1 0 0
Simmons, rf.	3 0 1 0 0 0	Moren, rf.	4 0 1 0 1 0
Keller, lf.	3 1 2 2 0 0	Steinbrener, 2b.	3 1 1 2 6 4
Hedgepeth, p.	4 0 1 1 4 0	Laughlin, p.	0 0 0 0 0 0
Laughlin, p.	0 0 0 0 0 0	Cooper, p.	1 0 0 0 0 0
Cooper, p.	1 0 0 0 0 0	Totals	30 3 4 24 15 2

**Some Garden Notes.**

The first week in August I sowed seed of the Big Boston lettuce for the fall crop in the open ground. These seeds have germinated well, and as soon as large enough to handle they will be transplanted in six-foot beds with alleys between, setting the plants eight inches apart each way, and I hope to head these in October or early November.

At the end of the month more seed will be sown and the plants set in the frames at same distances and the sashes will be put on when the nights get frosty. These will be for Christmas and New Year's.

Early in September I will plant sets of the yellow potato onion in rows sixteen inches apart, and at same time will plant sets of the Norfolk Queen for the earliest green onions, to be followed by the other varieties of onions, while the main bulbs will be allowed to ripen.

My first sowing of spinach was made August 15th. This is for the fall crop. In mid-September I will sow more for the late winter and early spring crop. Corn is pulled up by the roots as soon as the ears are used, for we do not want the stumps in the garden, and do want clean land for the later crops.

In order to find how late we can make cabbage I planted seed of late cabbage in hills the middle of August. These I intend to thin to one plant in a hill, of course, and urge the growth as rapidly as possible, and will be able to say something about the success or failure later.

Pansy seed have been sown on a betterly sown and covered with old fertilizer sacks to keep the moisture to the surface. These, of course, will be removed as the seed germinate, and when the plants are large enough to handle well some will be set in frames for winter flowers and others set in beds for spring blooming outdoors. I usually sow a trade packet of 3,000 seeds and get an abundance. But I buy the best seed obtainable, for inferior flowers.

My beds of Phlox Drummondii will be sown late in August, as the plants winter well and come into bloom far earlier than when sown in spring.

## PIRATES AGAIN LOSE TO BUILDERS

Paxson, Despite Eight Errors Behind Him, Pitches in Grand Form.

Newport News, Va., August 29.—Newport News made it two straights over Portsmouth to-day by hitting Dye hard in the first and sixth innings. Paxson was invincible in the pitches, and held the Pirates to three runs in spite of the eight errors which his team-mates made behind him. The batting of Tarleton and Geyer featured, the former having a perfect game with three singles, and later getting a single and a double, and a triple in four attempts. Quinn and Smith also hit the ball hard, these four men getting ten of the locals' twelve hits. Score:

Newport News.		Portsmouth.	
AB.	R. H. O. A. E.	AB.	R. H. O. A. E.
Gillespie, 2b.	3 1 0 2 1 0	Tennant, lf.	5 0 0 2 0 0
Chastant, 3b.	4 1 1 1 3 0	Howedell, 3b.	3 1 1 2 2 0
Gondolf, ss.	3 1 0 0 4 3	Howell, cf.	5 0 2 1 0 0
Tarleton, 1b.	3 2 3 8 0 1	Whitcraft, ss.	5 0 2 4 0 0
Geyer, lf.	4 2 3 2 1 0	Carter, 2b.	4 0 1 2 4 0
Smith, cf.	4 1 2 5 0 0	Boyd, rf.	4 1 0 2 1 0
Quinn, rf.	3 2 0 0 0 0	Evans, 1b.	4 1 2 8 1 1
Matthews, c.	0 0 1 1 3 0	Garvin, c.	4 0 1 2 3 0
Paxson, p.	3 0 0 0 4 1	Dye, p.	4 0 1 1 0 1
Totals	31 7 12 27 14 8	Totals	35 3 8 24 14 2

Score by innings:  
 R. Newport News.....3 0 0 0 3 0 1 \*—7  
 Portsmouth.....0 1 0 0 1 1 0 0—3  
 Summary: Two-base hits—Chastant, Geyer, Evans. Three-base hit—Geyer. Sacrifice hits—Tarleton, Quinn. Struck out—by Paxson, 7; by Dye, 2. Bases on balls—off Paxson, 2; off Dye, 1. Left on bases—Newport News, 4; Portsmouth, 11. First base on errors—Gondolf, Howedell. Umpire, Mr. Williams. Time of game, 1:30.

## Baseball Results Yesterday

SOUTH ATLANTIC LEAGUE	
Charleston, 2; Savannah, 0.	Albany, 2; Columbus, 1.
SOUTHERN LEAGUE	
Birmingham, 3; Montgomery, 1.	Chattanooga, 9; Mobile, 6.
Nashville, 5; Memphis, 6.	Atlanta, 5; New Orleans, 0 (first game).
Atlanta, 6; New Orleans, 2 (second game).	
INTERNATIONAL LEAGUE	
Toronto, 7; Baltimore, 6 (first game).	Toronto, 2; Baltimore, 8 (second game).
Buffalo, 0; Newark, 2 (first game).	Buffalo, 2; Newark, 5 (second game).
Montreal, 7; Jersey City, 3.	Rochester, 2; Providence, 1.
CAROLINA LEAGUE	
Winston-Salem-Charlotte, rain.	Durham, 7; Greensboro, 2 (seven innings, darkness).
Asheville-Raleigh, rain.	

**Motorcyclists Coming Here.**

Washington, August 29.—A party of Washington motorcycle men left for Richmond this afternoon. They expect to arrive to-morrow afternoon.

# 35 PICTURES FREE

**WITH THE CATALOGUE**

BOOKLOVERS' CATALOGUE CERTIFICATE  
 Number 1 Good for Pictures and Coupons  
 Numbers 1, 2, 3, 4, 5  
 This certificate will be accepted by this newspaper in its Contest now being conducted in exchange for the FIVE PICTURES and COUPONS stated above.  
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BOOKLOVERS' CATALOGUE CERTIFICATE  
 Number 7 Good for Pictures and Coupons  
 Numbers 31, 32, 33, 34, 35  
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 REDEEMABLE ONLY AFTER THE ABOVE FIVE PICTURES AND COUPONS HAVE BEEN PUBLISHED IN OUR PAPER.  
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# THE BOOKLOVERS' CONTEST GAME STARTS TO-DAY FOR YOU

The Booklovers' Game is Simply a Game of Solving 77 Pictures. To-Day Picture No. 35 is Published.

If you get the thirty-four pictures already published, and get them free, then all you need to do is to continue on, like contestants who have been in this game from the first, clip out the balance of the seventy-seven pictures as they appear in the paper day after day. You get all the back pictures free by securing a catalogue. With the Catalogue you get Pictures Nos. 1 to 35 FREE, and with the Answer Book you get Pictures Nos. 36 to 70 FREE.

START RIGHT NOW. No one has any advantage over you, for you will have all the pictures to date. All the old contestants have the pictures to date. They saved them one by one from the paper. You can get them all in a bunch FREE.

The Catalogue is a list of about 5,000 book titles, seventy-seven of which are guaranteed to be the titles represented by the seventy-seven pictures. Thus all the correct titles are in the Catalogue.

The Answer Book aids you in submitting answers, for with an Answer Book you cannot possibly have any use for more than one copy of each picture, yet you can make as many as ten different answers to each picture.

Get the back pictures, save the balance of the seventy-seven pictures as they appear, and start to solve the pictures. Those coming closest to naming the seventy-seven book titles that the seventy-seven pictures represent will receive the splendid prizes offered by this newspaper.

**Get Into This Game Now. To-Day Is a Money-Maker. To-Morrow Pays Dividends Only in Regrets. START TO-DAY.**

The Times-Dispatch's Great \$1200.00 Gold Booklovers' Contest Picture No. 35 Date, August 30th



## What Book Does This Picture Represent? Write Title and Name of Author in Form Below

Title .....

Author .....

Your Name .....

Street and Number .....

City or Town .....

TOTAL NUMBER OF PICTURES, 77. Contest began July 27th. Each day a different picture appears in this space. Cut them out. Save them until the last picture appears on October 11th. Don't send in partial lists. Wait until you have all the answers to the 77. Read Rules, Daily Story and Special Announcements in another part of this paper. It will help you win a prize. Extra pictures and coupons of any date that have appeared may be had at 2c. Enter to-day without registering your name. Merely Save Pictures and Coupons as they appear.

## CONTEST EDITOR'S OFFICIAL: Booklovers' Catalogue

Here is a portion of one of the pages of the Catalogue, showing how the titles are listed in alphabetical order. One of the catalogue certificates, redeemable for five free pictures, is shown also. The 77 titles which the 77 pictures represent are contained in this catalogue, and YOU can find them there.

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**USE THIS ORDER BLANK FOR CATALOGUE**

If you cut this form, fill it out and send or bring it in with the sum designated, you will receive the Official Copyrighted Contest Catalogue of about 5,000 book titles, and seven certificates redeemable for the first thirty-five pictures in the contest. In the catalogue are all the correct titles to the seventy-seven pictures. Catalogues, 35 cents at this office, 40 cents by mail.

Do Not Send Stamps or Silver. Send Check or Money Order.

Booklovers' Contest Editor,  
 The Times-Dispatch:

Inclosed find 40 cents, for which send me a Booklovers' Contest Catalogue of about 5,000 book titles and the seven certificates redeemable for the first thirty-five pictures.

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