

## It's Mostly Up To You

"Anon" and his wife "Anonymous" write hundreds of good things to read in the newspaper columns, also Mister "Clipped" and Miss "Selected," but old man "Ex" heads all the rest of them although we generally find him at the bottom. Poor man, he gets a lot of recognition and doesn't know it. He owes his life to a lazy printer who failed once to look up the name of the paper from which he swiped an article, and for all the years since that time this lazy printer's children have been many upon the face of the earth. We hate plagiarism and always try to give credit to every article clipped from other papers unless it has an "Ex" under it. Only on three or four occasions has The Hummer copied a short article without credit and that was by an oversight. We strongly believe in giving proper credit and if our readers will think about it we have tried faithfully to give the name of the publication from which we clip an article. So we print below a poem by "Ex" in the Sovereign Visitor and we think it good enough to pass on to our happy legion of subscribers:

"When the world's a-goin' crooked,  
Or it looks that way to you—  
Somehow seems to be a tangle  
To most everything you do;  
When you start out of a mornin'  
With your luck a-runnin' wrong,  
The birds along our pathway  
Have a harshness in their song,  
And the grass, though soft and velvet,  
You will sort o' stumble through,  
Such times, if you want things better,  
Friends, it's mostly UP TO YOU.  
'Taint hard smilin' with the sunshine,  
But it's durin' stormy spells,  
When our weary feet are slippin',  
That the stuff what's in us tells.  
No—you won't have flowers allus  
In the paths you travel thru;  
Still, if you'd have things better,  
FRIEND, IT'S MOSTLY UP-TO-YOU!!!"

## Uses and Abuses of Fertilizers

By Prof. R. J. H. De Loach, Director of Georgia Experiment Station.

### I. THE USE OF COMMERCIAL FERTILIZERS—HISTORY.

The First of a Series of Six Articles.

We would not be disposed to try to give a complete history of the use of commercial fertilizers, but only to show how this great industry began and grew in the Southern United States. Generally speaking, the farmers of this generation inherited the habit of applying fertilizers to soils, but have not been taught the underlying principles of the industry.

The use of some kind of manure on soils with crops for the purpose of increasing the yield goes back to ancient times. We know that many ancient people applied animal manures to their soils for this purpose. The Chinese, centuries ago, applied manures of various kinds to their soils and gardens and with phenomenal results. In Von Tschudi's Travels in Peru we find that as early as the middle of the last century notes were being taken on the actual value of Guano by the Peruvians.

Bonington speaks of reeling fields in Peru on which wheat grew every year for two centuries, and the yield still high and the growers prosperous. The practice of using mineral fertilizers was introduced direct from Peru to the United States in the year 1846, and was based on such reports as we find above. It had already been used in England before it found its way into the United States, but Peru seems to be the country in which the application of minerals to soils as plant food originated. We do not know this is true, but all evidence points to this. It is of greater interest to us therefore that we know about the customs in Peru.

#### The First Use of Peruvian Guano.

The first man in the Southern States to use this Peruvian guano was David Dickson, of Suwanee, Ga., who saw an advertisement of it in the old American Farmer published in Baltimore. The South has perhaps never had a more successful farmer than David Dickson, who made many millions of dollars farming, and who was a pioneer in many other lines as well as in the use of mineral fertilizers. In the year 1846, the year after it was introduced into the United States, he bought three sacks and used it, and on finding that it paid him, bought it in increasing quantities till the year 1855 and 1856, when he "went into it fully." As is suggested above this is no doubt the first instance of the use of a concentrated mineral fertilizer on cotton in the United States.

The universal success with which Mr. Dickson met in the use of this Peruvian guano led many other prominent farmers to follow his example, and in every reported case, success followed its use. We are constrained to believe that the application of this mineral fertilizer to the cotton and other crops in the South could not possibly have been an accident. Its success was unquestionably based on the actual needs of the soil. A quickly available manure was what the crop needed, and when this was once applied results were evident.

After a time it was found that the Peruvian guano, which contained principally nitrogen, produced too much stalk and not much increase in the yield of fruit, and hence its use was somewhat discouraged for a season.

#### The First Use of German Potash.

About this time the war between the States began, and at the same time the discovery of the potash beds of Germany, also, the offering on the market of various kinds of mineral fertilizers resulting from the teachings of Von Liebig of Germany, who was at that time the greatest champion in the world of agriculture and its possibilities. As a result the popularity of Peruvian guano subsided and more study was given to the general question of the use of mineral manures, both by farmers themselves and the students of agriculture.

Two great contributing factors to the rise of the fertilizer trade in the South are first the abolition of slavery, and second, the rise of agricultural education. Before the war the question of land was secondary. If growing farm crops in the South "wore the land out," there were plenty of slaves to "take in more land." It was cheaper to take in land than to pay for any artificial manure. In 1862, the Morrill Bill passed Congress, creating agricultural colleges in the various states, after which there began a campaign for improving methods in agriculture. Experiments at public expense were begun on a small scale, and the public was induced to make greater use of plant foods of all kinds, as well as to improve methods of tillage. This, of course, caused an immediate increase in the use of mineral plant foods, and out of which grew demands for great quantities of fertilizers. From this great demand there sprang up fertilizer factories in all parts of the country. All kinds of materials were tried out, some was good, and some was not, but much of both kinds used. The factories had no restrictions and many of them palmed off on the farmers anything that would smell strong and that could be put in sacks. This condition on account of state laws did not last long. We begin the next article by giving a resume of the part taken in the rise of the trade by the states themselves.

A man in Colorado named Grubb is called the "Potato King" because he raises so many Irish potatoes. Now he comes forth with the idea that much sickness is caused from NOT eating potatoes every day. What could be more natural! Named Grubb, raises potatoes for sale, then says EAT'EM or be sick! Some may take Mr Grubb's advice about their daily grub and some may NOT.

## NOTICE.

I have instruction from Okolona Oil Co. to collect all gin accounts due them—and ask all who are indebted to them for ginning to call on me at once and settle same. You find me at W E Hubbard Shop W A Grissom.

FOR RENT CHEAP—A fine place of land near Town of Houlika, see Mrs M E Moore.

Don't fail to see our Plow Shoes. \$1.50, \$2.00, \$2.50. Best you can buy. Spot Cash Stvr.

## UNKNOWN DEFENDANTS

No. 1933.  
J J Byars, et al complaints,  
vs.  
This the 15th day of March, A. D. 1916. W A Wilkinson, Clerk.

## Delinquent Tax List.

On Monday, April 3rd, 1916

Within legal hours, I will sell according to law, for cash to the highest bidder, in front of the Court House, in the town of Houston, Miss. for taxes for the year 1915 the following described realty: in said town of Houston, and assessed according to said survey of said town, to-wit:

### General and School Tax

To whom sold and division of section	Section	Range	Town	County	Assessed Value	General Tax	School Tax	Total
Arn and Powell Willbanks. 5a s-e cor n s-w	7	1	1	1	1000	10	10	20
C C Hardwick, 37a s) s) s-c	7	1	1	1	1500	15	15	30
J F Thompson, sr, s-e	9	1	1	1	900	9	9	18
W E Farr, 10a s-w	28	1	1	1	275	2.75	2.75	5.50
H H Page, 20a n-e part n-e	32	1	1	1	1000	10	10	20
W E Farr, 17a n-w	32	1	1	1	750	7.50	7.50	15
H R Austin, 4a n) n) n-w	33	1	1	1	200	2	2	4
A C Houston, 20a long s-e	4	1	1	1	100	1	1	2
E E A Smith, 12a s) n-e	4	1	1	1	125	1.25	1.25	2.50
D A Kyle, 5a n-e	4	1	1	1	40	.40	.40	.80
A C Houston, 18a n-w cor n-e	4	1	1	1	500	5	5	10
A C Houston, 5a n-e cor n-e	4	1	1	1	100	1	1	2
W E Farr, 22a e side n-e	4	1	1	1	70	.70	.70	1.40
Orange Evans, 1a e) s-w	4	1	1	1	50	.50	.50	1.00
A C Moore, est, 20a lots 6, 7, 13 s-w	4	1	1	1	210	2.10	2.10	4.20
A P Sany, 17a s) s-w	4	1	1	1	200	2	2	4
D A Kyle, 17a s) s-w	4	1	1	1	40	.40	.40	.80
J A Pyron, est, 4a s) s-w	4	1	1	1	100	1	1	2
Ben Sigers, 12a s-e cor n-w	4	1	1	1	100	1	1	2
A M Harley, 22a s-e cor n-w	4	1	1	1	100	1	1	2
Hercules Buggy Co, 12a n-e	4	1	1	1	200	2	2	4
Mrs W L Walker, 61a n-e cor n-w	4	1	1	1	200	2	2	4
W P Sany, n-w) n-w	4	1	1	1	70	.70	.70	1.40
Chester Black, 1a lot n-e cor s-e cor n-w	4	1	1	1	25	.25	.25	.50
Mrs Van Abernethy, s) s-e) s-w	4	1	1	1	200	2	2	4
Bertie Moore, 1a e side s) s-e	4	1	1	1	20	.20	.20	.40
W L Dulaney, 21a s) s-e	4	1	1	1	200	2	2	4
3 3-4a s-e cor s-e	4	1	1	1	30	.30	.30	.60
Tom Wofford, 14a s) s-e	4	1	1	1	150	1.50	1.50	3.00
Ely Moece, 1a e end s) s-e	4	1	1	1	25	.25	.25	.50
A J Dulaney, 2a s-e cor s-e	4	1	1	1	200	2	2	4
Geo Shelley, 1a n-w cor n-w	4	1	1	1	100	1	1	2
J S Huffman, s-w) n-e	4	1	1	1	150	1.50	1.50	3.00
J R Williams, n) s-w	4	1	1	1	70	.70	.70	1.40
J S Dulaney, s-e) s-w	4	1	1	1	100	1	1	2
R L Bishop, w) n-e	4	1	1	1	600	6	6	12
Reuben Davis, 4) n-e	4	1	1	1	200	2	2	4
R L Bishop, 5a n-e	4	1	1	1	60	.60	.60	1.20
Reuben Davis, 621a n-w cor n-w	4	1	1	1	375	3.75	3.75	7.50
M B Bishop, 10a s-e	4	1	1	1	500	5	5	10
Joe Norton, s-e) long s-e	4	1	1	1	300	3	3	6
E E Thornton, 10a w side n-e	4	1	1	1	30	.30	.30	.60
Reuben Davis, 122a n-e	4	1	1	1	500	5	5	10
Joe Norton, 20a n-e	4	1	1	1	100	1	1	2
E A Smith, est w) long s-w	4	1	1	1	200	2	2	4
20a w side s-w	4	1	1	1	100	1	1	2
M P Pyron, est s) s-e	4	1	1	1	200	2	2	4
E E Thornton, 60a w side n) s-e	4	1	1	1	300	3	3	6
Reuben Davis, 30a e) n) s-e	4	1	1	1	50	.50	.50	1.00
D A Kyle, 20a s-w) n-e	4	1	1	1	250	2.50	2.50	5.00
12a n) n-e	4	1	1	1	40	.40	.40	.80
12a n-e cor n-e	4	1	1	1	35	.35	.35	.70
Mrs Van E Abernethy, 11a s-e cor n-w	4	1	1	1	10	.10	.10	.20
C C Hardwick, 12a s-e corner n-w	4	1	1	1	50	.50	.50	1.00
Jack Duncan, e) s-w	4	1	1	1	200	2	2	4
Mrs Emma Weaver, 60a e) s-w	4	1	1	1	300	3	3	6
M B Pyron, est, e) n-e	4	1	1	1	300	3	3	6
A C Baird, s) w) n-e	4	1	1	1	200	2	2	4
J M Shields, n) w) n-e	4	1	1	1	200	2	2	4
T M Pyron, 3a n-w cor n-w	4	1	1	1	1	.01	.01	.02
J R Buring, 4a s-w cor s-e	4	1	1	1	12	.12	.12	.24
T L Farr, 70a e side s-e	4	1	1	1	200	2	2	4
J A Hollingworth, 80a w side s-e	4	1	1	1	344	3.44	3.44	6.88

### Oak Grove Addition—Separate School District.

Mrs V Summers, lots 8, 9, 10 and 11, block 1	\$ 20	77
J R Johnson, lots 17, 18 and 19, block 1	15	72
S E Phillips, lots 20 and 21, block 1	10	60
J W Helms, lots 13, 14, 15, 16, 17, block 2	100	100
J M Boyd, 16, 17, 18, 19, 20, 21, block 3	30	88
H H Page, lots 1, 2, 3, 4, 5, block 4	25	83
S H Ricks, lots 1, 2, 3, block 6	15	72
S H Ricks & Son, lot 5, block 6	5	21
lot 7, block 6	5	21
R G Winter, lots 11, 12, 13, block 6	15	72
Sam Sloane, lots 17, 18, 19, 20, block 6	20	77
G W Kart John, w) lots 9 and all 10, block 8	6	22
lot 11, block 8	4	14
GB Kart John, lot 12, block 8	4	14
W H Williams, lots 13, 14, 15, 16, 17, block 8	20	77
W T Wallace, lot 7, block 9	5	18
W B Shaw, lots 12, 13, 14, block 9	15	54
W T Wallace, lots 15, 16, block 9	10	36
A J Harrington, lots 4, 5, 6, block 10	18	70
M H Richardson, lots 18, 19, 20, block 11	18	70
J A Clements, lots 11, 12, block 12	8	31
B Kossman, lot 13, block 12	4	15
J M Griffin, lot 15, block 12	4	15
Sam Sloan, lots 17, 18, 20, block 12	12	45
Daly Caruth, lots 8, 9, block 13	6	22
R E Johnson, lots 12, 13, 14, block 13	9	33
M H Richardson, lots 15, 16, 17, block 13	9	33
W P Wade, lots 18, 19, block 13	6	22
B Kossman, lots 1, 2, 3, block 14	9	33
Brevard-Woods Stave Co, lots 23, 24, 25, 26, 27, 28, block 14	21	78
J A Clements, lots 1, 2, 3, block 15	9	33
L I Scott, lots 1, 2, 3, 4, block 17	12	45
A L Jordan, lots 5, 6, 7, 8, block 17	15	54
J A Clements, lots 10, 11, 12, 13, block 17	12	45
Unknown, lots 14, 15, block 17	9	33
Wm Cockrell, lots 16, 18, 19, block 17	9	33
Unknown, lots 1, 2, 3, 4, block 18	12	45
A L Jordan, lots 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, block 18	33	117
Wm Cockrell, lot 16, block 18	3	11
lots 17, 18, block 18	18	63
Dan Smith, w) lots 5 and 6, block 19	8	27
Eli Horn, lots 21, 22, 23, 24, 25, block 21	18	63

### Houston Gardens—Special School District

Hudson & Jordan, s) s) lots 2, 3, 4, 5, block 21	24	84
G S Gates, lots 9, 10, 11, block 1	10	36
R W Griffin, lots 17, 18, 19, block 1	9	31
Son Realty Co, lots 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, block 1	30	108

### Highland Addition—Special School District

Son Realty Co, lots 1, 2, 3, 4, 5, 6, 7, 8, block 1	24	84
G S Gates, lots 9, 10, 11, block 1	10	36
R W Griffin, lots 17, 18, 19, block 1	9	31
Son Realty Co, lots 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, block 1	30	108
Mary Coaty, lots 1, 2, 3, block 2	3	10
Son Realty Co, lots 7, 8, 9, block 2	3	10
Mary Coaty, lots 10, 11, 12, block 2	3	10
J C Curtis, lots 1, 2, 3, block 3	3	10
S & D Williams, lots 4, 5, 6, 7, 8, 9, 10, block 3	10	36
Geo Carothers, lot 11, block 3	1	3
Son Realty Co, lot 1, block 4	1	3
Jeva Winter, lot 2, block 4	1	3
Son Realty Co, lots 3, 4, 5, block 4	3	10
E B Snell, lot 6, block 4	1	3
W B Snell, lot 7, block 4	1	3
D Griffith, lots 8, 9, 10, block 4	3	10
W D Ray, lots 11, 12, 13, block 4	3	10
Pearl Lambley lot 19, block 4	1	3
A T Lee, lot 23, block 4	1	3
Lee Griffith, lot 24, block 4	1	3

D H Griffith, lot 25, block 4	1	3
C C Summerall, lot 26, block 4	1	3
Son Realty Co, lot 27, 28, 29, 30, block 4	4	14
F C Days, lot 5, block 5	1	3
J H Cooper, lots 8, 9, 10, block 5	3	10
R G Moseley, lots 22, 23, block 5	2	7
Laura Edwards, lot 2, block 6	1	3
F S Griffin, lot 2, block 7	1	3
J Eastland, lots 8, 9, block 7	2	7
G L C Warner, lots 21, 22, 23, block 7	3	10
Julia Eastland, lots 10, 11, block 8	2	7
Son Realty Co, lot 12, block 8	1	3
H Crawford, lot		