

## Barn Yard Manure AND The Spreader.

G. H. ALFORD, Atlanta, Ga.

Barn yard manure is the most important manurial resource of the farm, and should be carefully saved and used. It represents fertility, which is drawn from the soil, and must be returned to it if productivity is to be maintained. It adds plant food to the soil, acts upon the soil in such a manner as to render the plant food more available, increases the much needed supply of humus, makes the soil warmer, enables the soil to receive and retain more water, improves soil ventilation, aids in the development of bacteria, and helps to reduce the washing of the soil to the minimum. On the basis of the prices charged for commercial fertilizer, it is estimated that the average value of the manure produced by each horse or mule is \$27.00, by each head of cattle \$19.00, by each hog \$12.00 and by each sheep \$2.00. Cornell University shows by actual analysis that the plant food in a ton of ordinary horse manure is worth \$2.74. A conservative estimate places the annual production of manure in the United States at two billion tons or five billion four hundred and eighty million dollars worth.

The one feature which strikes the observing man when he goes on to one of our Southern farms is the failure to save, care for and utilize the manure made on the farm. He usually finds the manure from a few mules and scrub stock out in the barn yard, to be washed by the rain and drippings from the roof. The unnecessary waste and loss of manure which occurs in the United States each year is equal in value to ten times the value of all commercial fertilizers used in this country.

If we realized fully the value of manure, as a producer of crops, and enhancer of fertility, we certainly would not waste it as we do, and then set about to meet the consequence of our wastefulness by paying hard-earned money for complete commercial fertilizer. Many of us apply fertilizer of which we know little into soils of which we know less. We all know that we can rapidly increase the producing capacity of land by yearly application of carefully saved manure and buying in its place complete commercial fertilizers, in the use of which even the most observant man can seldom see lasting beneficial results.

The great distinguishing characteristic of manure, as compared with the best complete commercial fertilizer is, that the manure is permanent and lasting in its effects, while the other is only of temporary value, and depends largely, even then, for its effectiveness, on the physi-

cal and mechanical condition of the soil, which is brought about by the addition of humus. Sir John B. Lawes, one of the highest authorities in the world on this subject, said: "That as the results of his experiments continued for forty years, that for twenty years after the application of manure ceased, the annual yield was considerably higher than on manured land."

To get the full value out of manure, it must be carefully saved, and applied to the land with a manure spreader, at the rate of about ten tons per acre. It is probably best to let the horse manure remain in the stables until time to apply it. The cow manure should be placed in piles under sheds, and about one hundred pounds of land plaster, and one hundred and fifty pounds of raw rock phosphate sprinkled on each ton of fresh manure.

Manure, and especially horse manure, thrown in piles for several months often decreases in manurial value more than fifty per cent. When thrown in piles only a few days, a large per cent of the nitrogen often escapes in the form of ammonia, and when the piles are rained on, the soil under them is quite sure to be too rich for some crops. Other farmers distribute the manure so unevenly with a pitchfork that the crop is often injured more than it is improved. Still other farmers apply the manure in a furrow at or before planting time, and the crop burns up during a long drought. And still other farmers use the manure spreader, and easily spread the manure evenly all over the field, do it when it ought to be done, without any loss of plant food, and largely increase the crop grown.

The farmer who has never used a manure spreader can have no adequate idea of its real value. Very few farmers ever really find out the value of manure until they get a manure spreader. After using a manure spreader, they usually decide that one load of manure spread evenly on the soil is worth two dumped out in the field by use of the pitch-fork, or applied in the furrow at or before planting time.

The manure spreader should stand near the head of the list as it may be called. Very properly, one of the most valuable labor saving machines. The manure will go about twice as far, and on the whole will do about twice as much good as that dumped with the pitch-fork or shovelled into the furrows. Every farmer in the Cotton Belt should make constant use of a manure spreader.

### OF INTEREST TO GINNERS.

Vicksburg, Miss., July 4, 1913.  
To All Ginner and Producers of Cotton In the Vicksburg Territory:  
The Steamship Lines and the Railroad Companies have adopted the following rules in regard to cotton, to take effect Sept. 1st, 1913.

(1) A bale measuring 27 inches in width and 54 inches in length has been adopted as the standard and no bales wider or longer than these dimensions will be accepted for export shipment, except on payment of \$1.00 per bale extra freight; therefore, all bales packed in gin-boxes wider than 27 inches or longer than 54 inches will be subject to this penalty of \$1.00 per bale.

(2) In order to secure a clean export and of having every bale of cotton offered must be completely wrapped with clean well woven bagging and must be perfectly dry and in merchantable condition.

We think it important to give notice of these regulations because, while they have been published in the daily papers, they may have escaped your attention. Our Exchange has waited to see the outcome of the various meetings that have been held by the Railroad Companies and Steamship Lines. The rules have now been adopted by the Maritime Association, and have been announced by the Cotton Exchanges of all ports. If planters and ginner will arrange to have all cotton well wrapped with good bagging, and packed in standard boxes (27 inches by 54 inches), a great deal of trouble and loss will be avoided.

Yours respectfully,  
VICKSBURG COTTON EXCHANGE,  
J. H. Cook, Secretary.

### A Fine School.

Elsewhere in this issue will be found the advertisement of Mansfield Female College, located at Mansfield, Louisiana. This is one of the oldest and best Colleges in Louisiana. The school was established in 1855, has a large, fine building, a beautiful, ample campus, is on the highest point in the State and has an unusual record for health. The work in the various departments is high-grade, and some of the finest women in the South were graduated there. If you have a girl to send to school, you cannot do better than to send her to Mansfield Female College.

A valuable little pamphlet entitled "Rape as a Supplement to Corn" has just been issued by the Agricultural Department of the Missouri Pacific-Iron Mountain. This circular was issued and is distributed to farmers along the lines of the road, in view of the recent drought and consequent damage to the corn crop in many sections of the West and Southwest. It shows the proper time to plant rape and the methods to be used in sowing to obtain the best results, and points out the advantages to be gained by a judicious use of this forage in the feeding of sheep and hogs. Figures obtained in tests at the Iowa Experiment Station are given which show that, compared with pigs fed in dry lot, forage fed pigs increased profits more than five fold in many cases.

### A MATTER DESERVING OF ATTENTION.

The Gazette is in receipt of a letter from Dr. Walter Morris, from Knoxville, Tenn., in which he suggests most earnestly that this parish and Madison and East Carroll place specimens of our soil, products, live stock and natural resources in way of timber on exhibition at the big fair to be held there this fall. He also sends a catalogue and premium list of the Fair Association, which can be seen at this office by any one interested. Dr. Morris writes:

DEAR SIR:—I am sending you under separate cover, a premium list of the Live Stock Exhibit, Night Horse Show and Agricultural Departments of the National Conservation Exposition, which is to be held at Knoxville, Tenn.

If Madison, Tensas and East Carroll parishes were to put on exhibitions here, of the different products of the soil and a sample of the different timbers, they would attract buyers of homes to that part of the country. People will be here from everywhere. It would be well if your Police Jury would make an appropriation to defray expenses of a display.

The space for individual farmers and parish exhibits will be free.  
Yours truly,  
(Dr.) WALTER MORRIS.  
Member Live Stock Committee.

### ADVERTISED LETTERS.

Remaining in the St. Joseph Post Office for week ending July 12, 1913.

Braxton, Idell  
Brown, Bulah  
Dixon, Laura  
Green, Agnes  
Harris, West

Horns, Martha  
Mkiri, Fali  
Simpson, William  
Stevens, Charlie (2)  
Toliver, Theodore

Persons calling for the above letters will please say "Advertised," and can procure same by paying one cent for each letter.

L. E. HENDERSON, P. M.

Statement of the Ownership, Management, Circulation, Etc. of Tensas Gazette, as Required by Law.

Name of publication: Tensas Gazette; Published: weekly, at St. Joseph, La. Editor, manager and publisher: Josiah P. Scott; Post Office Address: St. Joseph, La. Owners: Tensas Gazette Publishing Co. Stockholders: Josiah P. Scott, St. Joseph, La. Known bondholders, mortgagees, and other security holders: None. [SIGNED] JOSIAH P. SCOTT.

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O all intents and purposes, soil is alive. It breathes, works, rests; it drinks, and most important of all, it feeds. It responds to good or bad treatment. It pays its debts with interest many times compounded. Being alive, to work it must be fed. During the non-growing seasons certain chemical changes take place which make the fertility in the soil available for next season's crop. But this process adds no plant food to the soil. Unless plant food is added to soil on which crops are grown, in time it starves. There is one best way to feed your soil. Stable manure, which contains all the essentials of plant life, should be spread evenly and in the proper quantity with an

## I H C Manure Spreader

I H C manure spreaders are made in all styles and sizes. There are low machines which are not too low, but can be used in mud and deep snow, or in sloppy barnyards. They are made with either endless or reverse aprons. Frames are made of steel, braced and trussed like a steel bridge. Sizes run from small, narrow machines to machines of large capacity. The rear axle is placed well under the box, where it carries over 70 per cent of the load, insuring plenty of tractive power. Beaters are of large diameter to prevent winding. The teeth are square and chisel-pointed. The apron drive controls the load, insuring even spreading whether the machine is working up or down hill, or on the level. I H C spreaders have a rear axle differential, enabling them to spread evenly when turning corners.

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