

Agricultural Department.
W. H. BYANS, Editor

THE DRAINAGE.
(continued)

In our last we argued against the policy of promiscuous underdrainage of our sandy soils that do not need it, and advised that we confine our efforts to the substitution of underdrains in the place of the open ditches that disfigure our farms and take up so much land. It is very practicable to do this, and it is something that will pay. We have no experience in the use of tile. All our drains have heretofore been of wood, and if we were only draining for ourselves wood will answer. It will last fifteen or twenty years and will cost one-fourth as much as tile. But, as under the changed state of things, there is no inducement for us to leave our lands and run off to the rich ones of the West, and as our most valuable property is land, and our duty and our interest to improve it to the utmost, it would be better to use tile at once in spite of the great cost of it. Underdrains may be made of boards, green pine poles, stone, brick or tile. Two six-inch boards nailed together at the edges and put into a ditch with the open side downwards make a first rate drain. Two green pine poles about six inches in diameter, laid parallel in the ditch, six inches apart and capped with a third, make also a good drain. So also brick or stone, so fixed that a channel for water may be made answer a good purpose, but as they, in this country, would be as costly as tile, it will be hardly worth while to use them.

The first thing to be done in underdraining is to dig a straight ditch from the place to be drained, at least three feet deep in the lowest point, and with sufficient fall to drain off the water rapidly. The fall in the ditch is a matter of great importance, as the water must run rapidly enough to wash out all sand or other matters that may sift through the cracks of the tile into the drain. Generally in our rolling lands the natural fall is sufficient for that purpose, but if the land is level you will have to use a drain-er's level, which is a common plantation compass, two or three times the size of our common five-foot compass, with a plumb-bob attached to the top, and the cross-bar marked off from the centre in inch and half-inches. First get the centre by standing the compass on a level board and mark off on either side. A fall of six inches to the hundred feet will give current enough to keep the drain clean. More would be better but every additional inch adds greatly to the cost of the ditch.

If you use tile (as you should), after the ditch is dug and levelled, scoop out in the bottom of it a narrow channel, just the size of the tile, and lay your tile in it, end to end, as close as you can get them, put a brick or stone before the first one to keep out the dirt, cover the whole with fresh clean pine straw, two inches deep, haul back the earth and ram it hard over the drain. The object of the straw is to prevent the loose dirt sifting into the drain and the ramming to make a solid mass of earth over it through which the water will not percolate and carry down the sand. The main drain should start at the head of the pond or flat and run through it, with side drains of smaller tile, every thirty feet made in the same way and connecting with the main drain. As I have said before a main drain of four-inch tile will drain a ten acre pond, if you give it fall enough, and with sufficient side drains to bring the water in rapidly, will keep the pond dry even in the wettest seasons.

Our readers who saw the tile at the Fair Grounds and the manner in which they are laid, will readily understand what we mean. If the exhibitor of those will make them for sale he will confer a lasting benefit upon the county. We hope our readers do not understand us as writing to discourage all underdraining. Our desire is that each farmer should know that his land absolutely needs it before he undertakes it. It is costly and has worked injury in other countries, and we fear it may do the same on our light, sandy soils. We would as soon expect a sieve to hold manure as a large portion of the soils of our county, if they were underlaid with pipe tile.

If your little chicks gets troubled with lice, dip your fingers in kerosene oil and rub it on the tops of their heads. I have found it an effectual remedy, and it does not hurt the chicks in the least.

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Situate on the South-side of Pearl St., convenient to the business portion of Town, large rooms, good beds, attentive servants and a good table. No extra charge for board.



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Has just received a fine lot of the latest designs in JEWELRY, WATCHES, CLOCKS, AND SILVER WARE, All of the best quality. Repairing of the above done in a neat and satisfactory manner. Spectacles and Eye glasses fitted with care, by an experienced optician. Call and be convinced. Just walk right in the store where you find the biggest Watch Sign on Pearl Street. Oct 29, '85-4m

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CHARLESTON, S. C.
November 5, 1885-1y

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Harper's Bazar is the only paper in the world that combines the cloze at literature and the finest art illustrations with the latest fashions and methods of household management. Its weekly illustrations and descriptions of the newest Paris and New York styles, with its useful pattern-sheet supplements and cut patterns by enabling ladies to be their own dress-makers, save many times the cost of subscription. Its papers on cooking, the management of servants, and housekeeping in its various details are eminently practical. Much attention is given to the interesting topic of social etiquette, and its illustrations of art needle work are acknowledged to be unequalled. Its literary merit is of the highest excellence, and the unique character of its humorous pictures has won for it the name of the American Punch.

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The December Number will begin the Seventy-second Volume of Harper's Magazine. Miss Woolson's novel, "East Angles," and Mr. Howells' "Indian Summer"—holding the former place in current serial fiction—will run through several numbers, and will be followed by serial stories from R. D. Blackmore and Mrs. D. M. Craik. A new editorial department, discussing topics suggested by the current literature of America and Europe, will be contributed by W. D. Howells, beginning with the January Number. The great literary event of the year will be the publication of a series of papers—taking the shape of a story, and depicting character-istics of American society as seen at our leading pleasure resorts—written by Charles Dudley Warner, and illustrated by C. S. Reinhart. The Magazine will give special attention to American subjects treated by the best American writers, as illustrated by leading American artists.

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September 17, 1885.

The Cabbage for the South,
HENDERSON'S EARLY SUMMER VEGETABLE SEEDS,
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March 19, 1885 1y.

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Nov 5, '85-2m

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Apply to E. A. EARLY, Cor. Main and Orange Sts., Darlington, S. C.
June 18, '85-1f

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J. B. Killough will sell you a Chickering, Mason & Hamlin, Mathew-beck, Arion, Groversten & Fuller and Bent Piano. Also a Mason & Hamlin, Packard or Bay State Organ at Ladies' and Men's prices. Good supplied direct from factory, freight paid. Fifteen days allowed for test before paying. Order and he will risk the result. A walnut case organ with a full set of reeds, \$55; with two full sets of reeds, \$65. Ministers, Churches, Sunday Schools, and Teachers get special discount. He also keeps a full line of Small Musical Merchandise.
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Write or call on him at Allen's Block Catalogues and prices furnished on application.
J. H. Schmid has charge of the Machine Department and will keep a stock of Machines, machine oil, needles, &c. All small musical merchandise, violins, banjos and strings.
Orders with him, J. B. KILLOUGH, Florence, S. C.
July 30, '85-1y

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Bath Rooms.
Next door to National Bank, under News office.
The patronage of the public is respectfully solicited.
Remember this is the only first class barber shop in town.
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Aug. 8, '85 1y.
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Assets Jan. 1, 1885, \$58,161,925.54.
Solid and safe insurance, backed by ample capital. Represented by H. P. JOHNSON, Bennettsville, S. C.
Correspondence solicited.
March 12, '85 1y.

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J. S. GARNER, D. D. S.
Will serve the citizens of this County at their private residences when desired, or at his office, OPPOSITE THE POST OFFICE.
OFFICE DAYS—Monday, Tuesday, Friday and Saturdays.
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I will take contracts for Heavy Tin Roofing, Gutting, Piping, etc. Satisfaction Guaranteed. Will attend at any place desired. Apply to H. B. CHAPMAN, Darlington, S. C.
Sept 24, '85-6m

FOR C. & D. AND C. S. RAILROADS.
PRESIDENT'S OFFICE
C. & D. AND C. S. RAILROADS,
Charleston, S. C., Nov 15, 1885.
On and after July 12th, the trains on these roads will run as follows: (Sunday excepted)—very day:
DOWNS TRAIN.
Leave Wadesboro.....5:45 A M
Bennettsville.....6:05
Marion.....6:30
Yorkland.....6:50
Leave Cheraw.....7:40
Society Hill.....8:10
Dove's.....8:44
Darlington.....9:08
Palmetto.....9:20
Arrive at Florence.....9:40
UP TRAIN.
Palmetto.....4:40 P M
Darlington.....5:12
Dove's.....5:35
Society Hill.....6:01
Cash's.....6:22
McFarlan's.....6:55
Morrison's.....7:28
Bennettsville.....8:05
Arrive at Wadesboro.....8:35
Freight train will leave Florence at 6 A. M. every day, except Sunday, arrive at Cheraw 10:40 A. M., leave Cheraw at 2:00 P. M., arrive at Florence at 6:25 P. M.
A. F. RAVENEL, Pres.
G. G. LYNCH, Master Transportation.

NORTHEASTERN RAILROAD CO.
CHARLESTON, S. C., Nov. 15, 1885.
On and after this date the following schedule will run:
Leave Charleston.
No. 48.....11:50 a m
No. 45.....6:00 p m
No. 47.....12:10 a m
Arrive Florence.
No. 48.....4:10 p m
No. 45.....3:55 p m
No. 47.....4:11 a m
Leaves Florence.
No. 48.....12:25 a m
No. 40.....1:25 a m
No. 42.....9:8 a m
Arrive Charleston.
No. 48.....4:45 a m
No. 40.....5:00 a m
No. 42.....1:50 p m
No. 40, an 47 will not stop at all Stations.
No. 42 and 48 and 45 will stop at all stations.
No. 48 will stop at Moncks Corner, St. Philips, Lanes, Kingstree and Lake City.
CENTRAL RAILROAD OF S. C.
DAILY.
No. 53.
Leave Charleston.....7:20 a m
Lanes.....8:35 a m
Leave Sumter.....9:25 a m
Arrive Columbia.....10:40 a m
No. 52.
Leave Columbia.....5:27 p m
Sumter.....6:45 p m
Lanes.....7:45 p m
Arrive Charleston.....9:10 p m
No. 52 and 53 will stop at Lanes, Forrester and Manning.
T. M. EMMERSON, J. F. DIVINE, Gen'l Pass. Agt., Gen'l Supt.