#### ORGANIC MATTER IV

#### Mr. Burgess Tells of "Souring the Land," and Cites Some Princi-ples From Physics by Way of Explanation-Interesting Experi ments

On one occasion a good farmer came to me and said: "Last spring I plowed under a heavy crop of crimson clover, planted my corn, and got nothing. My land was soured and my crop was killed." Another and my grop was killed. Another said he had plowed under a heavy crop of peavines late in the summer, sowed wheat, and got no stand. The land sourced and the wheat failed to germinate. Still another said he plowed under a heavy crop of vines and weeds, which rendered the soil so acid he was unable to grow a crop for three or four years afterward. We could give a long list of names of men who by their own practical experience have proven to themselves conclusively that the use of green manure positively does sour the land and renders itunfertile for a long time Now, if one is out for a difficult job, just let him attempt to dissuade these men from the belief that their land has been soured by the use of green manure. They stick to the old idea as tenaciously as to t<sup>k</sup>eir right arms. They feel that their theory is based on practical experi-ence (and what is better in the sub-to spoil the hay by drying up the stantiation of any theory than prac-tical experience? Nothing, to be sure).

Now, we have all had experiences. Now, we have all had experiences. We know that certain effects follow certain causes. Moreover, we in-stinctively assign some cause for every effect, frequently without tak-ing the trouble to investigate the fact on which our conclusions are based. Admitting that if a set based. Admitting that all facts are covered by some theory, one should always check his theory by his facts and strive to bring his facts in live with the correct theory. We often sustain loss by assigning the wrong cause to an observed effect. The farmers referred to above placed the

the green manure under, planted the crop and received no retura. There was some cause, to be sure, for the failure of the crop. Some one guessed the green stuff soured the soil, and further investigation was generally thought use-le.s. Some advised the use of lime

to correct this acid condition. Few farmers, however, were disposed to buy enough lime to correct the large ed under. The result was that they did not use the green manure, fearing the detrimental effects on the and the land has remained poor

for lack of humus to this day. Now, what really happens when a heavy crop of green manure is turned into the land? In order to make the explanation clear, we will have to bring to our aid, a few terms

have to bring to our aid, a few terms and fundamental principles of physics, but these are simple and easily understood. Fill a lamp full of oil, put the wick in and note what happens. The oil begins to rise in the wick and innumeration physics, but these are simple and easily understood. Fill a lamp full of oil, put the wick in and note what happens. The oil begins to rise in the wick and finally reaches the top. The oil will continue to rise in the wick till every drop is taken out of the bowl of the lamp. The oil in the lamp-bowl is called gravitation oil; that in the wick is called capillary oil. The rain falls on the land and gravitation pulls it down several feet marie is called in the early thirties. gravitation pulls it down several feet woman becomes a gr below the surface. This is called gravitation water. When the sun shines this same water begins to climb up between the fine particles of soil just as the oil climbs the wick, and continues to climb until wick, and continues to climb until it reaches the surface, where it is dried up by the sun just as the oil is burned away by the flame. This is called capillary water. This cap-illary water continues to rise to the surface of the soil until every drop is taken out of the subsoil and dis-pensed into the air as score.

pensed into the air as vapor. No farmer would hope to grow a

How to Cure Peavine Hay Some time since one of our cor

turn the windrows, and that after-noon put into cocks as tall and narrow as will stand well. How long it shall remain in cocks, depends on the weather and the state of the growth. But as soon as you can take a bunch in hand give it a hard twist, and can see no sap run to the twist, and can see no sap run to the twist put it in the barn while the leaves are still limp. Do not pack nor tramp it in the mow, but let aethe naturally, and then let it alone, and it will cure all right. If the tas dichtig in the harm do not Recipes it heats slightly in the barn, do not go turning it to cool it, for if you do will have some moldy huy, as the air will build in the germs of mold. to monkeying with stakes or scaffolds to spoil the hay by drying up the leaves and losing them. I have cured the hay in the above way for many years, and have always had good hay instead of the sticks usu-

ally seen without any leaves. - Prog-ressive Farmer.

#### A Fierce Night Alarm

A Pierce Night Alarm is the hourse, startling cough of a child, suddenly stateked by croup. Othen it arous-ed Lewis Chamblin, of Manchester, O., R. R. No 2] for their four children vore great-ly subject to croup. "Sometimes in severe attacks," he wrote "we were afraid they would die, but since we proved what a cer-tain remedy Dr. King's New Discovery is, we have no fear. We rely on it for croup and for coughs, colds or any throat or long trouble." So do thousands of others. So may you. Asthma, Hay Fever, La Grippo, Whooping Cough, Hemorthages ity before it. 50c and \$1.00. Trial bottle fre., Sold by Asheburo Drug Company and Rex-all Store

#### Youngest Grandmother Claimed by Atlanta

## A grandmother of two children at the age of 29, and of three at 30 years, is the record of Mrs. E. W. Bender of Atlants. It is claimed amount of acid they could imagine Bender of Atlants. It is claimed would be developed in the decay of that Mrs. Bender is the youngest so large an amount of manure plow-grandmother on record and her case one of the most remarkable outside of tropical countries.

Mrs. Bender, who is 31 years old, was born in 1880 in South Carolina. She was married to E. W. Moore at Columbia, S. C., in 1892. She was only 13 years and 3 months old when her first child was born. This child, a daughter, was married in 1909 to Edward Sinclair and in

#### Room at the Top

he circulation of the blood. "If I were to stand on my head the blood would rush to my wouldn't it?" head,

to my feet?" "Because," the bright boy sug-gested, "your feet ain't empty." Elder Hardy Vindicated

Thousands Have Kidney We have watched with great in Trouble and Never Suspect it. How to Pind Out. Fill a bottle or common glass with your water and let it stands twenty-four hours: a brick dust sedi-ment, or settling, stringy or milky string to plant measures to the kidneys and bladder are out of order and seed attention. Mat To Do. There is comfort in the knowledge so from expressed, that Dr. Kilmer's Swamp-Root, the great kilney remedy, fulfills almost every wish in correcting from expressed, that Dr. Kilmer's Swamp-Root, the great kilney remedy, fulfills almost every wish in correcting the stall restoring pro-recessity of being compelled to go often the stremarkable had in cedollar sizes. To may have a sample heater can strest Root, and the address, the mild and have the bast. Sold by the dadress Dr. Kilmer the strest Root, and the address, the mild and have the bast. Bold by the dadress Dr. Kilmer the strest Root, and the address, the mild and have the bast. Bold by the dadress Dr. Kilmer the strest Root, and the address, the strest Root, and the address, the strest string the dadress of the strest strest the address, the strest strest the address, the strest strest the strest the strest strest the address of the strest the strest strest the strest the strest the strest strest the strest the strest the strest the strest strest the strest respondents said in The Progressive terest the contempt proceedings of Farmer that he had used my plan the municipal court of Reidsville, for curing cowpea hay with success, and right away I was flooded with a host of inquires. Now, I have in times past, published my method many times, but it seems that there was rule to his convictions and fearmany times, but it seems that there was true to his convictions and fear-are many who have not read it. Be- less in his fight against the liquor gin mowing when the pods are maturing, but not dry. I cut in the morning till noon only. Put a ted-der right after the mowers to keep der right after the mowers to keep the hay toased up so as to facilitate the wilting. That afternoon rake it into windrows. Next morning ville have given him needed and

worthy support. We believe that this prosecution for righteousness sake will not only bring a reward to him, but will be blessed of God to the enforcement of law throughout North Carolina. All honor to officers and courts, who do their duty, and to citizens,

#### Recipes

Cold Catsup One-half peck of finely out ripe tomatoes, one teacupful of onions out fine, one teacupful of finely out nasturtium-seeds, one teacupful of grated horseradish, two finely chopped red peppers; three large staiks of celery chopped fine, one teacupful of cold mustard-seed, one-half had cupful of salt, one large tablespoonful each of black pepper, cloves, mace and cinnamon, one-balf cupful of sugar, one quart of vinegar. This needs no cooking.

#### A Good Picnic Sandwich

doctrine of high protectioniam. If reciprocity with Canada is right, the A delicious and substantial picnic sandwich is made with Hamburg steak. Boil round steak in a little principle of a "reasonable profit" for American manufacturers at the exslightly-salted water until done, but pense of home consumers who could, but for the tariff inhibition, buy not long enough to make it stringy, and let it cool. Then mince it fine, commodities and articles more econcand mix it with some chopped pick-les, a little lemon jurce, and salt and mically, is wrong. There is not the least reason why a consumer in pepper to taste. Spread it between thin slices of buttered brown bread, Florida should want to pay a "loaded" press together, and trim neatly. Do in the West Indies, while a consumer not have the sandwiches too email if m sculine palates are to be catered in Michigan pays a natural price for commodities produced in Canada. The producer in the direction of the

#### Mustard Pickle

equator is as much the neighbor of the Galf States consumers as the producer in the direction of the Equal quantity of small green cucumbers, green tomatoes, button onions or any small kind, green peppers and cauliflower, picked in small pieces. Soak all over night, Arctic Circle is the neighbor of the consumers in the States bordering the Great Lakes. drain and put in kettle containing vinegar enough to cover. Make a smooth paste of mustard, sugar and vinegar and add to the mixture. Fill bottles and then cover the corks cated by Democrats and fought by the more hide-bound protectionists in the Republican party, plus a few insurgents and Democrats who have not yet explained themselves and with paraffin sealing-wax. How to Make Swiss Cake

will remain permanently unable to do so. Should President Taft be This recipe calls for one-fourth cup of butter, one and one-half cups nominated, he would be nominated upon a declaration of principles of sugar, two and one-half cups of flour, one cup of milk, two eggs, and two and one half teaspoonfuls of diametrically opposed to that of Canadian reciprocity, and he would baking powder. Flavor with any preferred flavoring. The batter should be prepared for the tin in the should be prepared for the tin in the procity. Yet he would represent following manner: Cream, butter the Republican party as it must sink and sugar with the hand (the tem-perature of the hand seems to melt able profit," is the essential and the butter just right), add the yolks guiding principle of the party. In-of the eggs and beat thoroughly; surgency is mutioy.—Louisville then the m.lk. To this add the Courier Journal. of the eggs and beat thoroughly; then the m.lk. To this add the flour, which has been previously sift-ed with the baking powder five times. Then the flavoring (say one-half tea-spoonful vanilla and one-half tea-spoonful of lemon.) Finally fold in the stiftly beaten whites, put in the pan (one with a tube in the cen-ter) and bake in a catic het error ter), and bake in a quite hot oven until by inserting a broom splint it will come out clean, if done. It usu-ally requires from one-half to three-The schoolmaster was explaining quarters of an hour for baking. It s the way the cake is put together that makes it such a success, so do not shorten the process. By the ad-No one contradicted. "Now," he continued, "when 1 stand cn my feet why doesn't it rus'i "Now," he continued, "when 1 stand cn my feet why doesn't it rus'i cake tins, makes as fine a layer cake as one could wish for.

#### COURIER HONOR ROLL

#### LEGAL NOTICES

**Trouble and Never Suspect it.** 

How To Find Out.

remember the name, Dr. Kilmer's Root, and the address,  $\mu_{in}$ , N. Y., on every bottle.

An Illogical Candidate

President Taft's great fight in Congress was for Ganadian reci-procity, which conflicts with the

price for commodities produced

Canadian reciprocity was advo-

### Notice.

Notice. Havius qualified as excettor on the estate of Maritia Stout, decensel, before W.C. Hammond Clerk of the superior Court of Randolph Cour-ty of the superior Court of Randolph Cour-ty of the superior court of Randolph Cour-ty of the superior court of the super-set of the superior court of the super-set of the superior court of the super-set of the superior court of the super-write: One bog, a to of chickens. One swing withe one bog, a to of chickens. One swing the reflectes too tedicus to mention. All persons baving claims austante said estate are notified to present them to the undersigned, super or this potice will be pleaded in bar of their recovery: and all persons wring said estate will one lowward and make imme-main the day of Aug. 2012. This II day of Aug. 2012.

#### Notice

NOTICE Having qualified as admituistrator of Ambrose N. Brady, deceased, late of Randolph County, North Carolina, this is to notify all persons having claims applies the sense of associate before the floh day of August, 1614, or this notice will be pleaded in bas of their recovery. All persons indebted to said estate immediate settlement. More is hereby given that there will be sold on Wedneedby, August 274, 1911, as the resi-dence of the late Ambrose M. Brady, the follow-ing at wides of personal property loss wards and harmes, I mare and mile colt, 1 mule 15 months old, one blund horse, icu of I arming tools, and other articles of personal property too tedious to mention. This the 381s day of July, 1911. I f. Grand, Marking M. Brady, deceased.

#### Notice of Land Sale.

Notice of Land Sale. By virtue of the power vested in the un-defination of the power vested in the un-defination of the second second second second ty in the special proceedings will be and of the special proceedings will be and of the special proceedings will be and of the special proceedings will be and day of september, 1011 at 10 of boots, M., to the highest bidder the following described real estarts situate in Randolph county, bounded as follows, to-wit: Bounded on the west and north by the lands of the I. H. Fugh heirs, on the south by the lands of Flakney Raidwin, on the southest by the lands of Mogree Gox and on the west by the lands of Arther Check, contailing 5 acres, weare less, boling known as the William verse in the second second by the lands of all monthy, defored payments bearing interest at the less in the form day of also until paid, approved second the balance given therefor. The Aug, 17, 1911. Wm, C. Hammer, Comr.

North Carolina. Randolph Co.

In the Superior Court Lucretia King

In the Superior Court, vs. Notice of Summons and War-lease Latens, rate of Attachment. The above named defendant, issue Latens, will fake notice that a summons in the above-enti-ted action, was issued against the defendant on the Sciul day of August, 1931, Mefore W. O. Hammond, Cherk of the Suprime Court of Kah-land and the Superior Court of Kahland of the plaintiff by the defendant, which sum-perior Court on the 4th day of December, 1911, at the court bours in Asheboro, North Carolina. The defendant will nioo take notice that a war-rau of attachment has been Issued by the said Clerk of the superior Court on the God gay of August, 1911, gainst ble property of said de-nade for the return of the summons, when and whore the said defendant is required to ap pear and answer of don'the tenth and place maned for the return of the summons, when and whore the said defendant is required to ap pear and answer of don'the tenth and place maned for the return of the summons, when and whore the said defendant is required to ap pear and answer of don'the tenth and place maned to the return of the summons. When and whore the said defendant is required to ap pear and answer of don'the tenth and place maned to the return of the summons. When and whore the said defendant is required to the summons and answer of don'the tenth and place and the said defendant is required to the summons. When and whore the said defendant is required to ap pear and answer of don'the tenth complant and place the superior Court. Notice of Summons and War rant of Attachment.

#### MORTGAGE SALE

MORTGAGE SALE By virtue of the powers contained in a mor gate deed executed to the undersigned b Henry Smith and Belle smith, his wife, while morragace deed a recorded in the Register office of Raudolph county, in Block 126, Page of thail sell for cash at public auction to th highest blother a saturning. September 20, 101 2 o numer and the second second second to the second second second second second to the second second second second second read, runs thence uorth 72 degrees west about for hairs to a store on easily deer the new or road 1 ading to William Rush's, thence slow the various courses of second second second second bout 56 chains to a store, thences north 1 degrees cast. 830 chains to an sate in a braudo thence north passing William's corner 4. chains to a dead while cas, William's corner for chains to a chead while cas. William's corner for chains to a chead while cas. William's corner for chains to a chead while cas. William's corner for chains to a chead while cas. Store, thence north bank of a branch, thence north 16.15 chains the beginning, cultaining 50 12 acres more class. Said sale made to satisfy and forcelose said

This August 26, 1911. W. V. Smith, Mortgagee

Superior Court.

had my own carring and had my fill. I have went to three balls in one night, I have lighted my cigar with a ten-dollar bill, and all when money was tight," you would think he was boasting, possibly prevaricat-ing. But if he should say that the carriage was a baby carriage, the three bill a board bill, you would see the joke. When a farm paper advertise three full years for 35 cents, and it granted.

granted. This the 28th day of August, 1011. W. C. Hammond, Clerk of the Superior Court

### Land Sale Notice .

COMMISSIONER'S SALE

suant to an order of the Superior Cot oiph County in aspecial proceeding the ing, being an action entitled "C. P. Fo Fountee, Maude Foushes and T. a pointree, manual resigned commission commession of the signed commission commession was a signed of the signed at and on the premisse in the town of Adl o, N. C., sell for cash to the highest hidd ublic aution, the 'ollowing described lag. huro, N. C. sull for each to take highest hidder to public aution, the ollowing described land: A certain tract of land lying and being in the town of states adjoiving the sull action of C. P. For, inering the sull be the land of C. P. For, in the subscript of the sull be the subscript any and others, more fully bound as follows: Beginning at a stake on West Railroad Street, thence north 55 degrees, west 30 fort to a state on Columbia Street, thence South 55 degrees, west 370 dest to a state ou Columbia Street, corner of lot No. 78, thence north 55 degrees, west 307 forts with Enterprise Streets to a base state, corner of lot No. 78, thence north 55 degrees, west 307 forts with Enterprise Streets to its beginning, contain-ing two acress more or less, the same being lots No. 74, 74, 75, 76, 77 in the village of State?, Ran-dolph County, N. C. This September Web, 1911, J. George Hannah, Jr., Oomr.

#### NOTICE

The County Board of Educatice of Ran-dolph County invite bids for the construction of a framed school howse of one large and two anall rooms at Spero, N. C., according to plans and specifications which may be found and examined at the office of the County Superintendent. Bids to be consid-ered must be sealed and delivered to the County Superintendent on or before the 19th day of September 1911. The Board reserves the right to reject any and all bids or to let contrast to other than lowest hidder if it deaires. This Sept. 12, 1911. S. T. Lassiter, Co Supt. Schools.

#### Notice

# Having qualified as Executrix on the es-tate of A. S. Robbins, dreemed, before W. C. Hammond, Clerk of the Soperior Coart of Randolph County, all persons having claims against said estate are notified to pre-sent them to the undersigned, duly verified, on or before the 18th day of August, 1912, or this notice will be pleaded in bar of their recovery; and all persons owing; said estate will come forward and make immediate set-tlement. recovery, will come forward and a llement. This 15th day of August, 1911. Laura A. Robbins, Executrix.

#### ADMINISTRATOR'S NOTICE

# Having qualified as administrator of the estate of Robert D. Walker, Geecased, before the Cierk of the Superior Gount for Kandolph County, this is to northy all persons holding classifier against said estats, to present them to the underspiced, duty confidence on a before the iss end in bar of their receivery. All persons indebui-ed to said sente are expected to make immediate payment and settlemean. This the field have been settlement. W. 1. Sammer, Admr.

#### Notice

Having qualified as addministrator of Mrs. L. E. Carter, deceased, late of handolpi. County, North Callona, this to to difference having claims quanta the estate of all betwook basing claims quanta the estate of all betwook or before the lat day of August, 1912, or this no-tice will be pluid lin har of their secorecy. All persons indebted to said estate are notified to come forward and make settlement. Admr. of Mrs. L. K. Carter, dec'd. This the 25th day of July, 1911.

#### Notice to Creditors.

Having qualified as administors of S. S. Kearne deceased, before W. C. Hammond, Clerk of the Superior Court of Ratholph County, all persons holding claims against the estate of said deceas-ed are here by notified to present the same, day verified, to the understand, on or before bo picaded in hear their ecovity; all persons m-debted to said estate will make immediate settie-ment.

ment. This August 19, 1911. Henry S. Kearns, Admr. of S. S. Kearns, deceased. Hammer & Kelly Attys.

#### Notice

#### Notice of Land Sale

By virtue of the powers vested in the under-targed by decres readered in the Superior Court 6 Kandajda County in the special proceedings nulled "in re 5. F. Morgan et al", I will sell a public aution at the court house door in skebero, N. C., on Saturday, the fils day of perioder 201, at 12 of clock M., the following de-grided real state situate in East-diph C.ounty, e-Wil:

o-will: Ist Tract: That certain tract of land lying and being on the waters o ackson's Greek baing a one-half undivided interest in the lands known as the Landert nell fract, see petition in this action for particular description. "Ind Tract: This certain inset of land bound-do on the author the lands described above, on the west by the lands of R. C. Houver, on the seath for the lands of R. C. Houver, on the

ands of Rar

Think It Over Were a friend to tell you: "I have

had my own carriag and had my fill

When a furth paper and it three full years for 35 cents, and it is a monthly publication, they give you just 36 numbers in the whole three years' time. Again when they advertise three full years for a dollar direction of the molicention

run for office upon a platform dia-metrically opposed to Canadian reci-procity. Yet he would represent

that

88.

North Carolina, Randolph Co. Seth W. Laughlin, Admr. of Elijah Spencer, dec'd. James Spencer, ct al heirs

two and let the 1wo preces com- within one sixteenth of an inch of each other. At the same time w, will put a wide, thin board, shi inches below the surface of the soil Let the lamp burn and let the sur- shine on the soil and see what hap- pens. You have found that you oil did not rise above the cut plac- in the wick, and your lamp has gon- out while there was an abundance of cil in the bowl. You have found also that the six inches of soil above the board is dry as dust, while that is quite' mont under the board Why? Because the air space cut of the rise of oil in the wick and the solid board cut of the rise of mois- ture from the great reservoir below to the six inches of soil above it. But what has this to do with the	the board, let us plow under a six or sight-ton drop of green clover or cowpeas, eight or ten inches deep. Let this mass of vegetation lie dur- ing the month of August, any, then examine it after a hot dry period of ten days or two weeks and see what has occurred. You might use some blue litmus paper and test for acid. If there is an appreciable smount of acid present, yen will get a red color in the litmus paper, but be sure to tear up the vines and ex- amine cherefully the eight or ten inches of soil just below; also ac- amine carefully the eight or ten inches of soil just above the mass of vines. Your litmus will bot likely be colored at all because you are not likely to find an acid, but yos will find the soil just below the vines wet as mud, perhaps, while the eight or ten inches on top for the vines will be dry as dust. Here you baxe the cxplanation of the "souring" effect of green manure on well-drain- ed lands. J. L. Burges,- N. C. Dept., of Agriculture.	Names of Those Who Have Re- cently Paid Their Subscriptions W. H. Ellison, H. M. MoGee, Frank Gray, J. W. Staiey, L. C. Staley, S. Dowdy, C. P. Fox, B. H. Lassiter, T. J. Arnoid, L. Spencer, Y. M. C. Johnson, W. W. Jones, Mrs. J. M. Fousher, J. W. Yure, Miss Ella Brown, J. R. Frazier, A. T. Coble, E. P. Spoon, J. T. Brow- er, H. B. Lambert, P. Nelson, Lnetta Newsome, J. A. Presnell, J. D. Simpson, K. H. Freeman, James Shaw, D. M. Wright. Advice to the Aged. Age brings infirmities, such as share the boweds, weak kidneys and black der and Tokpito Livier. <b>Advice Schuberger</b> <b>Barter States Schuberger</b>	years. In the first case sitteen is- sues less than The Progressive Farmer and Gazetie gives its readers overy year; and in the latter case they give only 20 manes more in the three years than we do in one year. And you know that a paper coming once a month, or even twice's month, can't be as interesting, or as timely, or as helpful as a paper coming every week. Don't forget that The Pro- gressive Farmer and Gazette is made in the South, by Southern men, for Southern men, and dealing with Southern conditions only. MADE FOR YOU! The Progressive Farmer and Gazette Raleigh, N.C. Starkville, Miss Littleton Female College	signification by decreme remodered in the Superior Choice of Randolph Contary in the rejection proceedings and the Article Art. A sec. A se	<ul> <li>Bergelon.</li> <li>The Fact: This corrists tracel of laid known in the Langhlin igned bounded on the fact by he latted Addison Face, on the fact by he latted Addison Face, and the fact by he latted Addison Face, and the last by here, and he last sent and latter to municipality of the last by here last by he</li></ul>
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