OUR WEALTH IN MINERALS AND TIMBER.

A Talk With the State Geologist About the Treasures in the

Jas. A. Hoyt, Jr., in The State.

The forestry of South Carolina and the State's geological resources are matters to which public attention has only recently been directed. Their importance is doubtless not yet fully appreciated. In the South Carolina building at the Exposition there are various exhibits of the timber wealth of the State-nearly every county has something of the sort to show. But in the centre of this building is the State exhibit proper and the most interesting parts of it, perhaps, are the timber and mineral displays. These were collected and arranged by the very competent State geologist, Mr. Earle Sloan, who is an enthusiast as well as an expert.

The timber exhibit embraces specimens of the many native woods-the long-leaf pine, Cuban or slush pine, short-leaf, loblolly pine, spruce pine, cypress, cedar, red birch, beach, black gum, sugar maple, red maple, cotton wood, white ash, white oak, swamp white oak, chestnut oak, willow oak, water oak, red oak, scarlet oak, Spanish oak, black oak, post oak, winged elm, white elm, dog wood, sorrel wood, sasafras, hackberry, persimmon, longleafed poplar, tulip poplar, white hickory, black hickory, pignut hickory, walnut, palmetto and others.

It is not generally known that these native woods are being cut and finished on a scale that is really mammoth. It is an industry that has made great advances in late years, and while the promiscuous destruction of the forests is to be deprecated the scientific development of these natural resources into commercial assets is a benefit to the State financially and an aid to all other industries.

For the preparation of pine and cypress lumber South Carolina affords some of the largest saw mills in the United States. A mill at Georgetown has a capacity of a million feet a day, one mg at Charleston a capacity of three-quarters of a million feet, and many mills along the lower pine belt. have capacities but slightly less.

Considerable attention is attaching to the superior white oak of this State from which much is shipped to the Northwestern States, to be converted into furniture and then returned to the Southern States. The logic of this situation has stimulated the erection of several furniture factories in the interior of South Carolina and others will probably soon follow. Heretofore the white oak of this State has been either hewn into crossties or manufactured into rough lumber, selling at prices ranging from \$8 to \$14 per thousand feet. sawed," is worth, delivered at Baltimore, \$45 to \$50 per thousand feet.

Commercially the most important geological possession in this State is the phosphate rock. Specimens of this are on exhibition and to those unfamiliar with the peculiar formation, a remainder of the departed glories of unknown ages, it is a valuable lesson to see the rocks and have their history explained.

When asked for something about the geological exhibit Mr. Sloan first directed attention to the display of standard-shaped blocks of the structural and monumental stones, chief amongst which are the granites of this State, which are second to none in the United States in both quality and quantity. Very extensive quarries are now being worked near Rockton, Blairs, Newberry, Pacolet and Columbia, yielding varied and superb products. Some of these quarries are equipped with the most complete and modern mechanism for the production of architectural stones, and employ the most skilled artisans for highly finished monumental work.

The State House of South Carolina is constructed of grantte from these quarries and demonstrates the very superior capacity of this stone for the permanent maintenance of a whiteness of color resembling marble, and of a durability promising practically indefinite inalterability. The specimen blocks exhibited include all shades and varieties, ranging through the Scotch to the darkest hues. A conspicuous product of this industry is to be found in the "Belgian blocks" recognized as the most durable paving blocks found in this country and which are shipped as far West as Cincinnati. The granites and gneisses of this State are in considerable demand for macadamizing roadways and for the ballasting of the roadbeds of railways. A large quarry and plant at Cedar Mountain are exclusively devoted to furnishing crushed gneiss to the Southern railway, and the recent appropriation of several million dollars made by the Seaboard Air Line for ballasting their roadbed will probably lead to the opening of additional quarries and the installation of new plants in this State to furnish the necessary material. The value of the stone produced in this State during the year 1900 was \$285,172.

Amongst the specimens of granites and gneisses are observed many from deposits which are not now being quarried, notably from Edgefield, Lexington, Laurens, Lancaster, York, Chesterfield, Oconce, Anderson, Pick-

ens! Chester and Greenville counties. Turning from the structural stones one is confronted with an extensive assortment of the monazites of Cherokee, York and Spartanburg counties. Cherokee County affords the most conspicuous deposit of this mineral of all

SOUTH CAROLINA EXPOSITION. known localities, and produces about BILL ARP ON THAT FIGHT. that mean? He ought to be glad to HAMPTON AND ROOSEVELT. 2,000 pounds per day, with an aggregate value of \$140. The contained value is thorium, which is essential to the manufacture of the incandescent mantles ordinarily observed in the Wellsbach burners. In connection with the monanzites a collection of the associate gravels and parent rocks is

> Glancing at the collection of beryls amethysts, micas, corundum, baryta, limestones, graphites and other ecokaolins and clays which, during the year 1900, yielded in returns to the citizens of this State 2710 2710. nomic minerals, one then comes to the citizens of this State \$712,536.

About 20 per cent. of all wood pulp paper is composed of kaolin, known as "paper stock"-South Carolina is the most prominent producer of "paper stock" kaolin for the higher grades of white paper. The beds of Aiken County are unexcelled by any known deposits, and so superior is this article as it naturally occurs in its beds in this locality that no washing or other process of refinement is required to make it marketable. Aiken County affords about 30,000 long tons of this kaolin each year in addition to some porcelain and fine clay. Killian, in Richland County, affords the most prominently known bed of fine clay in this State, and operates extensive kilns for the manufacture of fine tiles, bricks, etc.

iron ores of this State, of which the most conspicuous and historically interesting are the celebrated Cherokee magnetic ores. With these ores the Confederate government operated large furnaces, gun foundries, rolling mills, etc. They represent a vast accumulation of particles of magnetic ore disseminated through magnesian slates, shales, olivine, etc. The exceptionally superior quality of the iron derived from these ores must again create a demand for these valuable deposits.

One then passes by the tin ores, which occur as prospects in Cherokee and York counties, to the manganese ores and thence to the gold ores of South Carolina. South Carolina is the greatest gold-producing State east of the Mississippi. Many samples and specimens of superior ores are exhibited from sundry localities, many deposits awaiting capital for profitable development, and that some gold properties in this State are susceptible of highly profitable operation is conclusively established by the history of the old Dorn mine, and by the daily current practice of the world-renowned Haile gold mine, a continuous dividend payer in the greatest single producer of gold in the Eastern States. There on is exhibition an interesting diagram showing the plan of the plant as designed by Capt. Thies, First the crushed ore, then the concentrated ore, the roasted ore, the gold in an amber colored solution and the teaser that brought on the fight in a name, and now Jim Smith is going to run for Gavernor Batter and the teaser that brought on the fight ing to run for Gavernor Batter and the concentration of the concentratio year by this interesting plant.

For additional forestry specimens fuse to give up their country, but it prepared according to the suggestions shocks them awfully to have a little of the State geologist one is directed to fracas in the Senate chamber. the exhibits from Greenwood, Berkeley, Spartanburg and Darlington counties, and to the magnificent display of paneled specimens from Darlington, comprising curly walnut, curly pine, chinaberry, quartered oak, maple, oak and Washington and Robert E. Lee. Job gress. other superb specimens, which could with great difficulty be surpassed. Attention is much engaged by a most are mean, selfish, heartless and ambiinteresting botanical collection from Chester, prepared under the direction of Prof. Green. But few State or scientific museums afford such a comprehensive and instructive local collection of woods, Horry, Florence, Orangeburg, Georgetown, Sumter and Pickens counties present interesting specimens of these forest products.

Chester, Spartanburg, Pickens, Florminerals.

think and to speak of their State as them in contempt. "great," but with reference to its it is proper, yet South Carolina is great real greatness.

Asthma

"One of my daughters had a terrible case of asthma. We tried almost everything, but without re-We then tried Ayer's Cherry Pectoral, and three and one-half bottles cured her." - Emma Jane Entsminger, Langsville. O.

Ayer's Cherry Pectoral certainly cures many cases of asthma.

And it cures bronchitis, hoarseness, weak lungs, whooping-cough, croup, winter coughs, night coughs, and hard colds. Three sizes: 25c., 50c., \$1. All drugglsts.

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J. C. AYER CO., Lowell, Mass.

He is Not Disgusted With Tillman for Fighting in the Senate Chamber.

Atlanta Constitution.

I was ruminating about the fight. It s common property and everybody has the right to talk about it. Tillman did wrong in jumping over three desks to strike McLaurin. About one desk was the limit of propriety. Three desks to the time and place, that is of no consequence now. There was a time in the days of Webster and Calhoun and Tom Benton and Henry Clay when the United States Senate was as acred almost as a church, but now a large majority of its members get their places by conduct infinitely more disgraceful than fighting. Bribery and orruption have got so common that a man can't get there without using a big pi.e of money and making a lot of promises. Of course, I do not include our Southern Senators, for they haven't got the money. If we had some milionaires in Georgia, Clay and Bacon would have to step down and out. And I am not so disgusted with Till-

man for fighting in the Senate chamber. He had reason to believe that his partner had received promises, and I reck-kon he had. He certainly had great You next arrive at a collection of the expectations or he would not have flopped over to the Republicans so suddenly. Politicians have to be paid for their votes. Tillman is a true man, but he is not a great and good man. admire him for some traits in his character. He cannot be bribed or intimidated. He dares to say what he believes and he uses his pitchfork with impunity. He is impetuous and com-bative, but he is sincere and everybody admires a smeere man. Sincere is one of the strongest and best words in our language. It literally means unsealed-without wax-for in the olden times letters were sealed with wax, but if it contained no secrets it was not sealed at all, for wax cost money. Tillman is a bold, defiant stubborn man, but he is not great. A great man like Webster or Calhoun would have said to McLaurin, "Well, sir, i I am a har I deserve the epithet. I I am not, then you deserve it, but I shall not stoop to give it." I wish we were all that great. This thing of resenting the charge of lying with a blow

is a strange perversion of propriety. A man may gain his ends by cheating. swindling, over-reaching hypocrisy, bribery or concealing the truth, bu you must not call him a har. He may break all the commandments but don't call him a liar, though that is not in the father of the now widespread pro-cess known by his name. There is about the fight is that Spooner did not displayed an extensive assortment of call Tillman a liar and get mauled for she ores and products from this mine. it before McLaurin came in. 1 want colored solution and and was delighted that it occurred be finally a gilded block representing the tween the two Carolina Senators. equivalent of gold produced during one With his party it is no crime to shoot down ten thousand Filipinos, who re-

Well, there are some great men and there are many good men, but greatness and goodness are rarely conbined. Addison says it takes both to make a ond time such a request has been made man complete. Such, for example, as by a member of either branch of Consays great men are not always wise and he might have added most of them tious. Lord Bacon, for instance, who took bribes while on the bench, and Cromwell and Napoleon. Webster was a very great man and long has been my ideal of greatness. He was called the godlike, but sometimes his human nature overcame him. And so with Henry Clay and Bob Toombs. The great weakness of the people is idolatry. Every man who climbs high property by Sherman's army. ence, Sumter and Orangeburg counties up where the people can see him is display in their county collections in- either a saint or a sinner, according to teresting specimens of their rocks and our politics, our section, our creed. One man idolizes the character of Lin-South Carolinians are accustomed to coln or Grant, another holds both of

I suppose that three-fourths of the plorious history. This is justified and Northern people pay homage to the memory of old John Brown for what in many other ways that are not ap- they call his good intentions, and every preciated in or outside its borders. It Northern history and encyclopedia only when he sees some such demon- apologizes for him, and even so good a stration as this that the average citi- man as McKinley excused himself for zen realizes the extent of the State's not attending the reinterment of his bones, on the ground that the pressure of official duties would not permit him to leave Washington. Most Northern men still denounce John C. Calhoun as the author of secession and justify Sherman in burning Columbia. Here in Georgia this idolatry is already takng shape in our silly hurrahs for our candidate for Governor. But, as usual the loudest shouters have axes to grind There will be another car. But the man and are diligently engaged in setting

If the ground was dry enough I would work some in the garden, and not brood over things that will soon pass away. I thought that spring had come two weeks ago, and exclaimed, hail-she only sleeted-and they say that old winter is lingering in her lap. The old rascal, he ought to be ashamed of himself. My best relief and comfort is to play with the grandchildren. Our little girl of five has had her little feelings hurt, and is very indignant at at what her Cousin Will said. She told me about it: "Grandpa, I told Cousin Will that when he got to be a man and I got to be a young lady, he must marry me, and what do you think he said?" "I don't know. What did he say?" "Why, he aid he would see about it, Wasn't

marry me. If he don't mind, I will marry my Cousin Ralph; and then I The Old Hero is Nearing His reckon he won't see about it. He's mean, ain't he, grandpa?" Another little chap was saying his prayers the other night and prayed for God to bless grandma and grandpa and Aunt Mary and Cousin John and several others, and then he said: "That's all, Lord. Ain't that all, papa?" "No. you didn't pray for your Cousin Jenny. "No, papa, I won't pray for her, she's mean; I wish God would send a cow to butt her over." All of our little ones are going to school now, and feel their consequence. I am taking more interest in our public school than I ever did. Our 12-year-old, who hyes with us, is absorbed in her studies. and leves her books and her teacher and is proud when she gets marked perfect or away up in the nineties. ()f course I help her with her sums every night, for some of them are very hard, and sorter strain my old mind. There are fifty-three pupils in her grade (the sixth), and yesterday forty-six of them had the sums done correctly, and when the teacher asked those who had no help to hold their hands up not a hand was held up. They all had help That makes forty-seven teachers for one grade, and I am pleased to be one

of them. I wish that the school teachers of these children could realize how much influence they have over their pupils. The teacher can make the school life of a pupil pleasant or miserable, and I am glad to believe that our teachers are kind and conscientious. I have several grandchildren there, and I take note of their progress. The days of old Isham are past. The old man was a stern and rigid disciplinarian. He wore slippers in the school room, and sometimes would slip up behind a boy who was making horses or dogs on his slate and would suddenly mash the boy's face down on the slate and rub the picture out with his nose. He used to have fights with the big boys and loved to maul obedience into their rebellious ouls. And there was Beman and Judge Warner and my father and William H. Seward, all Yankees, who had to subdue the big boys by hard fighting, and if a teacher couldn't whip a boy and subdue him he was

turned off as incompeten!. My opinion is that 1 got most too much whipping when I was a school toy. I still remember how John Norton whipped me on a boil and bursted it, and I ran home yelling and my mother cried as she doctored it up and my father made me go back. But John Norton was a good teacher, and he had a hard time with Jim Wilson and Jim Craig and Jim Wardlaw and my brother Jim and Jim Alexander, the doctor who died last fall in Atlanta, and several other Jims. I never knew a boy named Jim who wasent devilish ing to run for Governor. tell a lie on him; he would jump over forty desks to whip a man.

Senator Gallinger, of New Hampshire, sent to the Library of Congress the other day for a Bible. One of the oldest employees of the library says that in forty-two years this is the sec-

Dr. A. Berger, of Sorbonne, suggested in a lecture delivered before a number of scientists at Paris the other day that an international monument should be raised to the memory of the late Lieut. Matthew F. Maury, of the United States, the pioneer of modern met. orology and hydrography.

Col. Mike Brown, of Barnwell, has been allowed by the Umted States Senate \$110,000 for the destruction of



can't wait. He chases the car and swings traps to catch the people. But this is the shadowy side of politics and I won't ruminate any further about it.

If the ground was dry enough I early wat. He chases the car and swings on, panting and hot, but satisfied. He keeps this gait up all day. He works that way, he lunches that way. He continues this until his stomach "breaks down" and nature compels him to "go slow." Business men who have impaired their digestion by hasty eating will find in Dr. Pierce's Golden Medical Discovery a cure for dyspepsia and other diseases 'Hail, gentle spring," But she didn't of the stomach and organs of digestion and nutrition. It does not give mere temporary relief, but it effects a radical cure. It strengthens the stomach, nourishes the nerves and purifies the blood. "For six long years I suffered with my liver, kidneys, and with indigestion, which baffled the best doctors in our country," writes E. L. Ransell, Esq., of Woolsey, Prince William Co., Va. "I suffered with my stomach and back for a long time, and after taking a 'cart-load' of medicine from three doctors, I grew so bad I could hardly do a day's work. Would have death-like pains in the side, and blind spells, and thought life was hardly worth living. I began taking Dr. Fierce's Golden Medical Discovery and 'Picasan' Pellets,' as advised. Before I had taken half of the second bottle I began to feel relieved. I got six bottles and used them, and am happy to say I owe my life to Dr. Pierce's Pellets cure billousness. "For six long years I suffered with my liver, idneys, and with indigestion, which baffled

Dr. Pierce's Pellets cure biliousness.

Eighty-Fourth Birthday.

The Columbia correspondent of the Augusta Chronicle writes as follows of an interview with Gen, Wade Hampion, who consented to talk for publication on the present status of affairs: General Wade Hampton, who is approaching his 84th birthday, has been very ill for weeks, but is slowly gathering strength and today consented to talk for publication in regard to the proposed visit of the President to the Charleston Exposition.

General Hampton declares emphatieally that President Roosevelt will now be given a great ovation, and that the welcome which he will receive will be one which the President will always one which the President will always that you were going to bring a mutton-remember with pleasure. He deplored head home for dinner this evening." recent occurrences and spoke with regret of the probable effect upon the State of South Carolina. The General speaks with some am-

sement of an incident which happened several years ago. General Hampton was at that time a Senator from this State. Hon. Hugh S. Thompson, formerly Governor of South Carolina, afterwards comptroller of the currency under Grover Cleveland, was at that time one of the heads of the civil service department, and young Theodore Roosevelt, of New York, was also a high official in that department. Roosevelt had even then shown symptoms of his strenuosity, and was the butt of some very sarcastic witticisms at the hands of the editor of the Washington Post. Roosevelt was ready to invade the sanctum of the editor, "bust" his bottle of vitrol and throw in a few punches in the face just to show that editor how fierce he really was. Governor Thompson endeavored in vain to dissuade Roosevelt. Finally they saw Senator Hampton approaching and by mutual consent decided to let the Gen-

eral decide the matter. General Hampton's readiness to grasp a situation in a crisis and his calmness when the nerves of others are taut, probably saved this State from a second revolution in 1876, when 10,-000 determined and desperate South Carolinans (and some from beyond the such transactions, 'We'l,' said he, 'I Savannah) came here with ritles across | the backs of their horses " just to see the State Fair," A word of command from Hampton and the garrison of a thousand Union soldiers here would have been as chaff in the hands of these stalwart farmers just out of the Confederate army.

But when they gathered around his ome and called on General Hampton for a speech, he told them that he hoped that they would enjoy the State Fair where there was a lot of stock on exhibition. The "boys" caught the inference. There was no stock at the Fair except the horses and mules which they had ridden into the capitol city. They understood that there was to be It's two tons." no physical demonstration, but that the leaders of the Democratic party desired to win the victory by methods which would prevent bloodshed.

It was just such advice which General Hampton gave young Roosevelt, and the editor of the Washington Post was not a victim of strenuosity. It is to be hoped that General Hampton, having again properly gauged the temper of the people of South Carolina, will be given the same deference by the President which was shown on that executive will attend the Exposition. lis person will be guarded carefully by the people of South Carolina, even nviting the President, but the State's nonor is now at stake.

GEN. MAHONE'S COW .- A story was told during the war of a cow that Gen. Mahone, of Virginia, insisted on takng with him, because he was a confirmed dyspeptic and thought he was obliged to have a milk diet or maybe die, for the lack of it.

General Lee was often bothered with the cow. One day he said: "General that cow behind.' "Can't do it, sir. If the cow stays

behind, I must resign." So the cow was actually along on the day General Grant received the surrender at Appomattox, and the cow went along home with General Mahone to Petersburg.

The little general carried cooking itensils and bedding with him and was noted for his comfortable way of eating and sleeping in the army.

He said very often that if he had to go through another war he would go he same way, according to Chicago l'imes-Herald.

It is interesting to note that John 1. Milburn, of Buffalo, in whose house 'resident McKinley was tenderly cared for after being mortally wounded by the assassin Czolgolsz, is a Democrat of sufficient prominence to be thought of by the New York Democracy as a candidate for Governor of the State.

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IN A HUMOROUS VEIN.

"Why, pa, this is roast beeff?" ex-claimed httle Willie at dinner on the evening when Mr. Chumplagh was evening when Mr. Chumpleigh was present as the guest of honor. "Of course," said the father. "What

"Why, you told ma this morning

It happened during a political cam-

"What if I am out a good deal nights?" he said in answer to his wife's reproaches. "It is in a good cause. Only by the most strenuous effort can we preserve the integrity of the local government."

"I should judge from your breath," she returned coldly, "that you were endeavoring to preserve it in alcohol,"

One of the Texas friends of Representative Cooper met him yesterday. "You smeke, don't you?" he asked.

"Sometimes," said Cooper.
"Take this," remarked the Texan. This is romething like a cigar.' Cooper took the weed, lighted it and puffed three or four times.

"Yes," he assented, "this is something like a cigar. What is it?"

"One day," says an exchange clerk m a Philadelphia department store, " an old fellow from the country came up to my desk and, laying down a package said: 'Young man, here's a suit of underwear that I bought here seven years ago. It is too small for me, and I would like to have it ex-changed.' I was thunderstruck at the know that, but I've never had 'em on, and this is the first time I've been in town since the day I bought 'em.' "

It was evident that the obedient little maid was troubled. " Mamma insists that I must not see you any more," she said, regretfully. The resourceful young man only

miled. "Well," he replied, carclessly, "if she is satisfied to have us meet in the dark I am."

Coal Dealer (anxiously) -" Hold on! That load hasn't been weighed. I looks to me rather large for a ton." Driver -" 'Tain't intended for a ton.

Dealer—" Beg pardon.—Go ahead. Tit-Bits.

Senator Spooner, of Wisconsin, and half a dozen other Senators were at luncheon the other day in the Senate restaurant. Spooner told a story.

" Isn't that one of Chauncey Depew' stories?" asked Senator Wetmore. " Not yet," replied Senator Spooner

A New Englander, about 70 years old, having learned that Dr. Henry former occasion and that the nation's Van Dyke made occasional expeditions to Canada and elsewhere in search of big game, recently sent to him a pen by the people of South Carolina, even drawing made by himself of a stag, and underneath placed this motto in large letters: "Thou shalt not kill." Dr. Van Dyke, in acknowledging re ceipt of the drawing, thanked his friend for his kindness and suggested that under certain conditions a more appropriate text would be Acts x, 13: Rise, Peter; kill and eat.'

Some of the late Lord Randolph Churchill's friends once tried to have Lord Salisbury reinstate his erratic lieutenant. Salisbury listened to them Mahone, we will be obliged to leave patiently and then asked: "Have any of you ever had a carbuncle on the back of your neck?" "No," was the reply. "Well, I have," retorted his lordship, "and I don't want another."

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Offers his services to the general pub is. All work guaranteed. His refer-nces are those for whom he has done vork and the work itself, whom and which can be seen in the towns of Pickens, Easley, and all over Pickens county Prties will do well to see him before sing a trade elsewhere.



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How the Farmers Can Save Money

sou Agricultural college is of so much value to the farmers of this State on account of the present high price of all feed products for farm animals and stock, that I have determined to get you to publish this as an advertisement for to publish this as an advertisement for which our company will bear the ex-

As some of the products made up in the ration as made by Mr. Connor may not be available to various planters, I suggest that any planter write to Mr. Connor and state what food products are available to him, both rough forage and concentrated food, and Mr. Connor will take pleasure in making up a ration to suit his needs as he has done in this instance.

Yours truly,
C. FITZSIMMONS.
General Manager The Southern Cotton

Chesp Rations for Horses and Mules.

To the Editor of The People's Journal; Farmers from various sections of the State have been writing asking about the advisability of feeding horses and mules on cotton seed meal and hulls and also asking for a cheaper ration than

The following prices are given in a letter from Scranton, S. C.: Corn, \$40 per ton; oats, \$45 per ton: wheat bran, \$25 per ton; cotton seed meal, \$25 per ton; rice meal, \$22 per ton. Of course corn and oats are out of the question as a food for horses and mules at the above prices so something cheaper must be looked for.

seven years ago. It is too small for me, and I would like to have it exchanged.' I was thunderstruck at the nerve of the man, but I managed to say something about the time limit on such transactions. 'We'l,' said he, 'I

place of corn pound for round.

If no hay or fodder is used in the ration and hulls are resorted to as roughness some nitrogenous food such as bran or cotton seed meal must be used to supply protein. Hulls may be fed without any further fear of injury to the animal. Should they refuse to eat the hulls a little corn meal or bran sprinkled over the surface will tempt them.

A good cheap ration may be made up as follows: Six pounds of rice costing 6.6 cents; four pounds of wheat bran costing 5.0 cents; two pounds of cotton seed meal,

costing 2.5 cents; ten pounds of cotton seed hulls, costing 3.0 cents; total cost of ration per day 17.1. The above is for a horse or mule of 1,000 pounds in live weight.

It is evident that a ration made up of amount of digestible matter as the above ration would cost much more than the shove.

The North Carolina experiment station has fed cotton seed meal and hulls to horses with good results, but the experiments along this line have not been extensive enough to say that cotton seed meal can be fed in unlimited quantities for any length of time without injury to the animal.

Numbers of farmers, however, have reported that they have fed cotton seed results.

C. M. CONNER. Asst. Agrist. S. C. Experimental Sta-

Church Directory.

Bel ow we give the names of churches pastors, and the Sundays on which they worship, as far we have information. If essary information:

Pickens—Rev. A. J. 5. Thomas—3d Sunday, 11 a. m. and 8 p. m.; prayer meeting, Wednesday 8 p. m.
Secona—Rev. J. E. Foster—Saturday before the first Sunday at 3 p. m.; 1st Sunday 11 a. m. l a. m. Peter's Creek-Rev. J. E. Foster-2d Saturday 3 p m; Sunday after second Satur-day 11 a m.

Mile Creek—Rev. J. E. Foster—4th Saturday 3 p m; Sunday after fourth Saturday 11 a m. Six Mile-Rev. W. C. Scaborn-Saturday before the second Sunday 2 p m; second Sunday 11 a m. Prater's Creek-Rev. W. C. Scaboru-Saturday before the third Sunday 2 p m:

3d Sunday II a m. Concord—Rev. W. C. Scaborn—Saturday before the fourth Sunday 2 p m; 4th Sun day 11 a m.
Laberty-Rev. H. C. Haddock 1st and

3d sabbaths; morning, H o'clock; night, 8; s. s. every sunday at 4 p 20.; prayer meet-ng, Wednesdays 8 p. m. Mount Tabor—Rey. G. F. Runion—Satorday before fourth Sunday at 2 o'clock METHODIST.

METHODIST.

Pickens—Rev. R. R. Dagnall—1st Sunday 8 p m; 2d Sunday 11 a m; 4th Sunday 8 p m; prayer meeting Wednesdays 8 p m.

Twelve Mile—Rev. R. R. Dagnall—1st Sunday 11 a m; 3d Sunday 3:30 p m.

Bethlehem—Rev. R. R. Dagnall—2d Sunday 3:30 p m. lay 5:30 p m. Tabor—Rev. R. R. Dagnall—4th Sunday Ham; 5th Sunday 11 a m. Easley—Rev. W. E. Wiggins—Ist Sunday 8 p m; 3d Sunday 11 a m. St. Paul—Rev. W. E. Wiggins—1st Sun-

lay 4 p m. Zion—Rev. W. E. Wiggins—2d Sunday Bathesda—Rev. W. E. Wiggins—2d Sunday 11 a m; 5th Sunday 4 p m. Bethesda—Rev. Wiggins—1st Sunday 11 a m; 3d Sunday 4 p m. Antioch—Rev. Wiggins—4th Sunday 11

a m.
Pickens Church—Rev. Wiggins—2d Sunday 4 p m; 5th Sunday 11 a m.
Noicth Pickens Cheurt—Rev. C. L. Mo-

Cain. First Sunday-Friendship, 11 a m; Porer's Chapel, 3:30 p m. Second Sunday—Mt. Bethel, 11 a m; New Hope, 3:30 p m.
Third Sunday—Porter's Chapel, 11 a m

Salem, 3:30 p m.
Fourth Sunday—McKinney's Chapel, 11 a m; Jocasse, 3:30 p m.
West Pickess Cheurt—Rev. J. P. Attaway, Vistamount, s. C. First sunday—Fairview, 11 a. m; Ca-

schee, 4 p. m. Third suaday—Gap Hill, 11 a. m. Fourth sunday—Ruhamah, 11 a. m; Lib-