

THE SENTINEL - JOURNAL

Entered April 23, 1903, at Pickens, S. C., as Second-Class Matter, Under Act of Congress of March 3, 1879.

VOL. XXXVIII.

PICKENS, S. C., THURSDAY, DECEMBER 10, 1908.

NO. 36.

SOUTH CAROLINA NEWS ITEMS

News of Interest Gleaned From All Sections of the State and Arranged For Busy Readers

How to Mix Fertilizers.

Clemson College, Special.—Mr. T. E. Keitt, chemist of the South Carolina Experiment Station, has prepared an article on "Home Mixing of Commercial Fertilizers," a summary of which is given herewith. As the time approaches for the farmer to procure his fertilizers for the next crop, the question confronts him: How can I get the maximum of the most available plant food at the minimum price? Although growing plants derive their food from soil, water and air, it is the fertility of the soil that concerns us in the application of commercial fertilizers. The chief elements which plants derive from the soil are potassium, phosphorus, nitrogen, calcium and sulphur. The constant natural activities going on in the soil furnish generally enough of all except nitrogen, phosphoric acid, and potash, which, therefore, the farmer must buy in the form of commercial fertilizers.

In what form shall these be bought? As unmixing materials or as mixed fertilizers? The manufacture of available phosphoric acid from raw rock or bone requires skill and experience, and to the novice is somewhat dangerous; therefore, it is not generally desirable for the farmer to attempt to make "superphosphates." But mixing the manufactured goods is rather simple, requiring (1) judgment in selecting material, (2) knowledge of the calculations involved, (3) a tight floor to mix on, and (4) a plenty of energy.

1. The material will depend on the character of the soil, the crop to be grown and the price of material. Phosphoric acid hastens maturity and aids in developing the seed; potash lengthens the growing season and stiffens the stalk; nitrogen gives rapid and luxuriant growth. Nitrogen, the most expensive, can be supplied by legumes—peas, etc, but the one-crop system now followed necessitates the buying of nitrogen in the form of nitrate of soda, sulphate of ammonia, dried blood and cotton seed meal. The present prohibitive price of dried blood leaves us the other three forms in which to obtain nitrogen, until we adopt systems of rotation to supply it.

The commercial sources of potash are kainit, muriate and sulphate of potash, containing 12.50 and 48 per cent of potash, respectively. For cotton or corn, muriate or kainit is better because cheaper; but muriate cannot be used for tobacco, as it injures the burning qualities of the leaf. For potatoes, turnips and other root crops some claim that the sulphate is better.

Phosphoric acid can be obtained from the 14 per cent or the 16 per cent article. When prices are proportionate the higher grade bought saves in the haulage. Do not be afraid to use a few postage stamps writing to a number of firms for prices, and, if possible, order in carload lots, alone, or by clubbing with neighbors.

2. As to calculations, a unit is 1 per cent of a ton, or 20 pounds. If we desire an 8-3-3 guano, we must have in a ton 8 units of phosphoric acid, 3 of ammonia, or its equivalent, and 3 of potash, or 160 pounds of the first, 60 of the second and 60 of the third. Suppose we desire to get the ammonia half from meal and half from nitrate and the acid from 16 per cent phosphate, the following amounts would give the 8-3-3 ratio: 429 pounds meal, 167 pounds nitrate, 11 pounds muriate, 663 pounds acid, 333 pounds filler. The number of hundred pounds of material is gotten by dividing the amount of plant food desired by the per cent contained in the material.

Using full sacks for greater convenience, 490 pounds meal, 290 of

nitrate of soda, 100 of muriate of potash, 1,000 of 16 per cent acid and 300 of filler would give a mixture grading 8.3-3.227, instead of 8-3-3, which is closer than many factory-mixed fertilizers come to the guarantee.

To get high-grade mixed fertilizers we must, of course, use high-grade materials. In the above mixture, if no filler is used, we would have 1,700 pounds grading about 9.7-3.7-3.2. It is obvious that we cannot get an 8-4-4 goods by getting all of the ammonia from meal and all of the potash from kainit. Very likely the above mixture would run slightly over guarantee, because the seller should allow a margin on each of his raw materials, whereas, in a mixed fertilizer, one, or even two, of the elements may fall below guarantee, and the other elements might pull it over in relative commercial value.

3. Any tight floor may be used for mixing, but better under a shed so that rainy days may be used for mixing. A practical farmer tells me that three hands with hoes and shovel can do the mixing at about one dollar per ton. It is convenient to mix about 800 pounds at a time, putting the mixed fertilizer back into the sacks from which the raw material came. In this way a saving of \$3 to \$4 per ton can be made over the prices of factory-mixed goods.

Summing up, by mixing his own fertilizers the farmer knows just what are the sources of the elements of his fertilizer; he avoids undesirable sources and materials; he may study his soil, crops and conditions and supply in any proportions those ingredients most needed; he may save transportation of the filler; he may save the middleman's profit, and several dollars per ton on the actual mixing.

Augusta-Aiken Boulevard.

Aiken, Special.—The Augusta-Aiken boulevard is still being pushed. The county commissioners authorized the road from the foot of the North Augusta Bridge via Belvedere and across to Bath, and thence to Aiken via Warrenville, upon the condition that the petitioners who asked for the road should build the necessary five or six miles across from a point near Belvedere through Bath to Langley road, and then that the county commissioners should take charge of the road and maintain it in the future. A profile of the plans for the work of constructing the road from Belvedere across the country has been made. It will take between five and six thousand dollars to finish the road. The cotton mills of Horsecreek Valley including Clearwater, Bath, Langley, Warrenville and Graniteville, and the Augusta Land and Improvement Company, and the trolley road have subscribed about \$1,000 for this purpose, and other parties in Aiken and Augusta have subscribed in the neighborhood of \$800. It is hoped that at least \$500 more will be raised in this city. Mr. D. S. Henderson, of Aiken, has interested himself in this matter a great deal in the hope that when the road reaches Aiken it will be run on to Columbia, and thence to Camden, in order that there may be a fine driveway the entire distance to Camden from Aiken. Mr. Henderson has himself collected from persons interested in this movement in Aiken about \$250.

No Hazing at Clemson College.

Clemson College, Special.—The report of the expulsion of cadets for hazing is erroneous. Two cadets have been dismissed recently, one for excess of demerits, the other for drinking and fighting, and the fighting was between two old students and was not the hazing of a new student by an old one.

Experiment Farm for Negroes.

Crenville, Special.—The United States department of agriculture has decided to locate an experiment farm for the colored people at Sterling college, this city. The farm will be similar to the one at Clemson college. The announcement was made by a representative of the government here last week.

Dispensary Law Violated.

Columbia, Special.—Four cases of violation of the dispensary ordinance were made last week by Dispensaries Constables Ogg and McSwain. The ones who will be given a hearing before Recorder Stanley are: Bob McCrary, colored; the city dog catcher; May Hill, colored; Annie Hardin, white; and Ida Walker, colored.

CLOSE OF CONFERENCE.

Conference Over, Appointments Read—Bishop Wilson Assigns Ministers to Their Year's Work.

The session of the South Carolina Annual Conference of the Methodist Episcopal church, South, closed at Laurens on Monday with the reading of the appointments, which are as follows:

The Appointments.

Anderson District—A. J. Cauthen, presiding elder; Anderson, St. John's, P. B. Wells; Orrville, A. V. Harbin; West End and Toxaway, W. J. Snyder and J. A. McGraw; Antreville, J. H. Montgomery; Clemson, J. H. Graves; Donalds, S. W. Henry; Lowndesville, R. W. Humphreys; McCormick, A. H. Best; Mount Carmel, J. S. Abercrombie; Pelzer, S. C. Morris; Pendleton, J. F. Anderson; Starr, J. N. Wright; Townville, C. I. McCain; Walhalla and Seneca, J. C. Yongue, C. D. Mann, supernumerary; Wilhalla Mission, R. R. Doyle; Westminster, J. L. Singleton, supply; West Union, to be supplied; Wilimston and Belton, C. C. Derrick, G. T. Harmon, supernumerary; Williamston Circuit, William Roof.

Charleston District—W. I. Herbert, presiding elder; Allendale, H. R. Browne; Appleton, J. T. Peeler; Beaufort and Port Royal, A. C. Walker; A. B. Watson, supernumerary; Bethel Circuit, C. W. Burgess; Black Swamp, W. W. Williams; Charleston, Bethel, W. B. Duncan; Trinity, Peter Stokes; Spring Street, G. P. Watson; Cumberland, S. A. Donohoe; Mount Pleasant, H. Etheredge; Cottageville, J. P. Inabinet; Cypress, S. D. Vaughan; Ehrhardt, J. W. Arial; Hampton, J. W. Elkins; Hendersonville, P. K. Rhoad; Ridgeland, J. R. Copeland; Ridgeville, W. S. Goodwin; South Hampton, W. D. Patrick; Summerville, J. C. Chandler; Walterboro, H. J. Cauthen; Young's Island, A. Sassard, G. P. Penny, supernumerary; assistant secretary missions, H. B. Browne.

Cokesbury District—J. C. Roper, presiding elder; Abbeville, Henry Stokes; Butler, W. P. Way; Cokesbury, F. E. Dibble; Greenwood, Main Street, M. B. Kelly; Greenwood and Abbeville Mills, G. R. Whittaker; Kinards, D. P. Boyd; Newberry, Central, J. W. Wollong; O'Neal Street and Mollohon, W. C. Kelley; Newberry Circuit, J. M. Friday; Ninety-Six, J. A. Cook; Parkville, George Lee; Phoenix, J. T. Miller; Prosperity, H. W. Whittaker; Princeton, Foster Speer; Saluda, D. E. Camak; Verdery, W. E. Wiggins; Waterloo, O. L. DuRant; Whitmire, O. A. Jeffcoat; Lander college, Jno. O. Wilson, president.

Columbia District—J. W. Daniel, presiding elder; Aiken, J. B. Traywick; Batesburg, S. O. Cantey; Bath, D. R. Roof; Columbia, Washington Street, H. W. Bays; J. A. Campbell, supernumerary; Main Street, A. N. Brunson; Green Street, B. R. Turnipseed; Granby, L. L. Bedenbaugh; Brookland, W. S. Myers; Edgewood, E. F. Scoggins; Edgfield, L. D. Gillespie; Fairfield Circuit, J. I. Spinks; Gilbert, C. S. Felder; Graniteville, E. F. Green; Johnston, B. J. Guess; Langley, E. A. Wayne; Leeville, S. H. Booth; Lexington, J. W. Neeley; Lexington Fork, W. H. Throver; North Augusta, J. L. Stokes; Ridge-way, J. K. Inabinet; Springfield, G. W. Dukes; M. M. Ferguson, supernumerary; Swansea, J. C. Davis; Wagoner, R. C. Boulware; Columbia College, W. W. Daniel, president; Epworth Orphanage, W. B. Wharton, superintendent; Paine College, G. W. Walker, president.

Florence District—P. F. Kileo, presiding elder; Bennettsville, R. E. Turnipseed; Bennettsville Circuit, W. P. Meadors; Brightsville, P. B. Ingraham; Bethlehem, J. B. Weldon; Cartersville, A. M. Gardner; Cheraw, Marvin Auld; Chesterfield, M. F. Dukes; Clyde, D. H. Everett; Darlington, Trinity, M. L. Banks; Epworth, F. S. Hook; Darlington Circuit, J. R. T. Major; East Chesterfield, J. C. Holley; Florence, R. H. Jones; Hartsville, A. T. Duple; Jefferson, J. A. Graham; Lamar, J. L. Tyler; Liberty, J. H. Moore; Marlboro, R. A. Pease; McColl, G. Leonard; Timmonsville, E. W. Mason, assistant Sunday school editor, L. F. Beaty.

Greenville District—W. M. Duncan, presiding elder; Clinton, J. E. Mahaffey; Easley, C. E. Burns; Foun-

tain Inn, S. T. Blackman; Gray Court, R. M. DuBose; Greenville, Buncombe Street, W. A. Massebeau; St. Paul's, R. L. Holroyd; Hampton Avenue, A. E. Driggers; West Greenville, W. B. Justus; Monaghan and Woodside, T. A. Groce; Sampson and Poe, J. N. Isom; Greenville Circuit, J. P. Attaway; Greer, E. T. Hodges; Laurens, First church, J. D. Crout; Laurens Circuit, S. T. McCarty; Liberty, W. S. Henry North Pickens, E. L. Thomason; Pickens, N. G. Ballenger; L. L. Inabinet, supernumerary; Piedmont, R. A. Yongue; South Greer, S. T. Creech; Traveler's Rest, J. R. Walker; conference secretary missions, R. L. Holroyd.

Kingstree District—J. E. Carlisle, presiding elder; Cades, E. M. McKissick; Cordesville, W. T. Bedenbaugh; Georgetown, Duncan, W. H. Hodges; West End, W. H. Murray; Greeleville, L. E. Peeler; Harper, S. J. McConnell; Johnsonville, J. L. Mullinnix; Jordan, T. W. Godbold; Kingstree, W. A. Fahey; Lake City, W. L. Wait; McClellanville, W. C. Gleaton, E. K. Moore; New Zion, E. P. Hutson; Pinoulis, W. H. Perry; Rhome, T. J. Clyde; Salters, W. T. Patrick; Sappit, R. F. Bryant; Seranton, W. H. Murphy; South Florence, J. R. Sojourner; Summerton and St. Pauls, E. S. Jones.

Marion District—E. O. Watson, presiding elder; Blenheim, J. F. Rushton; Britton's Neck, J. M. Gasque; Brownsville, C. M. Peeler; Bucksville, O. N. Rountree; Centenary, J. C. Counts; Conway, G. E. Edwards; Conway Circuit, N. F. Jackson; Clio, C. C. Herbert; Dillon, W. C. Kirkland; Galivenuits, J. W. Bailey; Latta, T. C. O'Dell; Latta Circuit, W. B. Baker; Little River, W. R. Barnes; Little Rock, W. C. Owen; Loris, T. F. Gibson; Marion, J. W. Kilgore; Marion Circuit, W. C. Bowden; Mullins, J. L. Daniel; Mullins Circuit, Dove Tiller; North Mullins, Allan Macfarlane; Waccamaw, S. M. Jones, supply; West Conway, to be supplied; conference secretary of education, W. C. Kirkland.

Orangeburg District—C. B. Smith, presiding elder; Bamberg, T. G. Herbert; Barnwell, E. A. Wilkes; Branchville, E. H. Beckham; Cameron, C. E. Peeler; Denmark, T. E. Morris; Edisto, G. T. Harmon, Jr.; Grover, W. L. Gaults; Harleyville, H. C. Mounzon; Norway, L. E. Wiggins; Orangeburg, St. Paul's, L. P. McGee; Orangeburg Circuit, G. W. Davis; Orange, T. L. Belvin; Providence, J. J. Stevenson, J. F. Way, supernumerary; Rowesville, A. R. Phillips; Smoaks, J. M. Lawson; St. George, J. M. Steadman; St. George Circuit, J. E. Taylor.

Rock Hill District—R. E. Stackhouse, presiding elder; Blackstock, H. B. Hardy; Chester, D. M. McLeod; Chester Circuit, A. E. Heller; East Chester, F. E. Hodges; East Lancaster, W. A. Beckman; Fort Mill, S. J. Bethea; Hickory Grove, S. D. Bailey; Lancaster, M. M. Brabham; Lancaster Circuit, H. L. Singleton; North Rock Hill, W. M. Owings; Richburg, W. S. Martin; Rock Hill, St. John's, H. R. Mills; Laurel Street, J. M. Rogers; Rock Hill Circuit, W. H. Arial; Van Wyck, C. P. Carter; Winnsboro, D. Arthur Phillips; Yorkville, O. M. Abney, S. A. Weber, supernumerary; York Circuit, B. G. Vaughan; Missionary evangelist, E. K. Hardin; Student Vanderbilt university, J. H. Brown.

Spartanburg District—M. L. Carlisle, presiding elder Belmont, B. M. Robertson; Blacksburg, G. F. Kirby; Campobello, E. Z. James; Cherokee, J. T. Macfarlane; Clifton and Cowpens, J. G. Huggin; Enoree, D. D. Jones; Gaffney, Buford Street, S. B. Harper; Limestone, J. G. Latham; Gaffney Circuit, T. B. Owen; Inman, H. L. Powell; Jonesville, E. P. Taylor; Kelson, J. A. White; Paeolet Circuit, R. A. Brock; Paeolet Mills, to be supplied; Reidville, J. L. Ray; Santac, J. H. Manly; Spartanburg, Central, R. S. Truesdale; Bethel, J. W. Spake; Duncan and Saxon, J. T. Fowler; Glendale, W. H. Polk; City Mission, J. W. Shell; Union, Grace, D. W. Keller; Green Street, J. G. Farr; Buffalo and Bethel, T. J. White; Woodruff, G. E. Smith, supply; Wofford College, R. A. Child, financial agent; editor Southern Christian Advocate, S. J. Nettles; field secretary superintendent endowment fund, Marion Dargan; superintendent Anti-Saloon League, J. L. Harley.

Sumter District—W. T. Duncan, presiding elder; Bethany, O. D. Spire; Bishopville, P. A. Murray; Camden, B. G. Murphy; Elloree, A.

S. Lesley; Fort Motte, L. T. Phillips; Heath Springs, R. E. Sharp; Keeshaw, J. H. Noland; Lynchburg, J. S. Beasley; Manning, F. H. Shuler; Osvego, D. Hucks; Pinewood, T. W. Munnerlyn; Providence, F. G. Whitlock; Richland, J. P. Wingham; St. John's and Remberts, J. E. Strickland; St. Matthews, J. H. Thacker; Sumter, First church, M. W. Hook, W. S. Stokes, supernumerary; Broad Street, J. B. Wilson; Wateree, J. V. Davis.

Transferred—J. B. Kilgore to Northwest Texas Conference.

Superannuated—R. W. Barber, W. E. Barre, G. N. Boyd, D. A. Calhoun, W. A. Clarke, N. B. Clarkson, R. R. Dagnall, D. D. Dantzer, R. L. Duffie, G. W. Gatlin, A. W. Jackson, N. K. Melton, E. M. Merritt, J. K. McCain, I. J. Newberry, G. H. Pooser, John A. Porter, W. C. Power, R. W. Spigner, A. J. Stafford, G. H. Waddell, T. E. Wannamaker, W. G. Winn, J. A. Wood.

The doxology was sung, Bishop Wilson pronounced the benediction and conference stood adjourned sine die.

Brave Engineer Scalded to Death in His Cab.

Statesboro, Ga., Special.—Remaining at his post though danger threatened, A. A. Reppard, a son of the late well-known lumberman, R. D. Reppard, of Savannah, was slowly scalded to death when his engine turned over and pinned him in the wreckage, one mile from Aaron, Ga., on the Savannah, Augusta & Northern Railway. Twenty passengers in a caboose that with the engine made up the train had narrow escapes from injury.

Strikers and Soldiers Clash.

Portimac, Portugal, By Cable.—Three regiments of soldiers are trying to suppress a riot of hundreds of striking workmen of the numerous sardine canneries here. Several clashes have occurred between the strikers and soldiers and many persons have been injured. The strike is general and unless it is suppressed shortly there is danger of other workmen becoming involved.

Prominent Woman Suicides.

Bristol, R. I., Special.—Mrs. Emma Russell Chesebrough, aged 39 years, wife of Alfred S. Chesebrough, a well-known yacht designer of this city, committed suicide by shooting herself in the head with a revolver. She had been troubled with melancholia and insomnia for some time. She was the daughter of former Lieutenant Governor Jonathan Russell Bullock.

Night-Riders Threaten Col. Taylor.

Chattanooga, Tenn., Special.—A special to The Times from Trenton, Tenn., says: It has been reported that Col. R. Z. Taylor, of this place, who made such a miraculous escape from the night-riders the night that Captain Quentin Rankin was hanged at Walnut Log, has received a note containing notice that the night-riders will call at his home and take his body, dead or live, no date being given.

Haitien Ruler is Deposed.

Port-au-Prince, By Cable.—President Nord Alexis has been deposed and is now safe on board the French training ship Duguay Trouin, and Port-au-Prince is in the hands of the revolutionists. General Antoine Simon, the leader of the insurgents, is marching up the peninsula with an army of 5,000 and a new President, General Legitime, has been proclaimed.

Bold Burglars Blow Safe.

Pepperell, Mass., Special.—Although the police of every city and town within a radius of fifty miles were keeping a sharp lookout for traces of the five burglars who early Wednesday blew open the safe of the First National Bank here and escaped with \$14,000 in cash, no clue to the identity or whereabouts of the safe blowers has been discovered.