

NORTH CAROLINA  
AGRICULTURAL EXPERIMENT STATION,

1885

BULLETIN No. 1.

ANALYSES OF FERTILIZERS.

RALEIGH, N. C., March 28, 1885.

The following analyses of official samples of fertilizers have been completed at the Station since January 1st, 1885.

The valuations are only relatively correct; they are not intended to fix the price at what the articles are to be sold. In calculating them, available phosphoric acid was supposed to be worth 9 cts. per pound, ammonia 20 cts. per pound and potash 5 cts. per pound.

3165. Acme Fertilizer, Acme Manufacturing Co., Wilmington, N. C., sampled with A. B. Suttle, Shelby. Contained: Moisture 11.89, available phosphoric acid 8.05, insoluble phosphoric acid 1.18, ammonia 2.76, potash 3.11 per cent. Relative commercial value per ton \$28.64.

3168. Atlantic Acid Phosphate, Atlantic Phosphate Co., Charleston, sampled with S. Green, Shelby. Contained: Moisture 13.32, available phosphoric acid 10.98, insoluble phosphoric acid 3.22, potash 1.55 per cent. Relative commercial value per ton \$21.31.

3147. Ammoniated Navassa Guano, Navassa Guano Co., Wilmington, N. C., sampled with Arrington, Muse & Co., Rocky Mount. Contained: Moisture 14.65, available phosphoric acid 10.12, insoluble phosphoric acid 3.20, ammonia 2.85, potash 1.83 per cent. Relative commercial value per ton \$31.45.

3162. Ashpoo Acid Phosphate, Ashpoo Phosphate Co., Charleston, sampled with Hooper & Lore, Concord. Contained: Moisture 12.38, available phosphoric acid 11.53, insoluble phosphoric acid 3.79, potash 0.94 per cent. Relative commercial value per ton, \$21.68.

3176. B. D. Sea Fowl Guano, Wm. Bradley, Boston, sampled with E. F. Moore, Fayetteville. Contained: Moisture 15.31, available phosphoric acid 10.95, insoluble phosphoric acid 1.55, ammonia 2.96, potash 1.63 per cent. Relative commercial value \$33.18.

3202. Bone and Peruvian Guano, Upshur Guano Company, Norfolk, Va., sampled with B. R. Browning & Sons, Littleton. Contained: Moisture 11.41, available phosphoric acid 9.20, insoluble phosphoric acid 2.43, ammonia 3.41, potash 1.82 per cent. Relative commercial value per ton \$32.02.

3136. Bradley's Patent Superphosphate, Bradley Fertilizing Co., Boston, sampled with Rountree, Barnes & Co., Wilson. Contained: Moisture 16.12, available phosphoric acid 10.69, insoluble phosphoric acid 1.24, ammonia, 2.97, potash 1.65 per cent. Relative commercial value per ton \$32.77.

3203. British Mixture, E. B. Whitman, Baltimore, sampled with T. C. Rodgers, Franklinton. Contained: Available phosphoric acid 9.18, insoluble phosphoric acid 2.45, ammonia 2.77, potash 2.09 per cent. Relative commercial value per ton \$29.69.

3140. Gibbs & Co.'s High-Grade Ammoniated Phosphate, Wilmington, N. C., sampled from lot in C. C. R. R. warehouse, Wilmington. Contained: Moisture 20.15, available phosphoric acid 8.45, insoluble phosphoric acid 2.97, ammonia 3.12, potash 1.87 per cent. Relative commercial value per ton, \$29.56.

3172. Geo. W. Miles' IXL Ammoniated Bone Super-Phosphate, The Geo. W. Miles Co., Milford, Ct., sampled with A. C. Melve, Lumberton. Contained: Moisture 19.13, available phosphoric acid 8.02, insoluble phosphoric acid 3.26, ammonia 2.74, potash 2.40 per cent. Relative commercial value per ton, \$27.80.

3177. Good Luck Guano, The Geo. W. Miles Co., Milford, Ct., sampled with Tadlock & Marsh, Monroe. Contained: Moisture 19.48, available phosphoric acid 8.24, insoluble phosphoric acid 3.18, ammonia 2.64, potash 1.22 per cent. Relative commercial value per ton, \$26.61.

3143. High Grade Premium Guano, Geo. L. Arps, Norfolk, sampled with C. C. R. R. warehouse, Wilmington. Contained: Moisture 20.69, available phosphoric acid 9.32, insoluble phosphoric acid 1.97, ammonia 2.26, potash 1.72, per cent. Relative commercial value, \$27.54.

3103. L. & R. Acid Phosphate, Lorentz & Rittler, Baltimore, sampled with L. R. Wyatt & Crowder, Raleigh. Contained: Moisture 14.84, available phosphoric acid 10.12, insoluble phosphoric acid 1.90, potash 3.03 per cent. Relative commercial value per ton, \$21.25.

3141. Lazaretto Fertilizer Works Acid Phosphate, Geo. W. Grafflin, Baltimore, sampled with Rountree, Barnes & Co., Wilson. Contained: Moisture 11.98, available phosphoric acid 12.80, insoluble phosphoric acid 3.82 per cent. Relative commercial value per ton, \$23.04.

3108. Lister's Ammoniated Dissolved Bone Phosphate, Lister Bros., Newark, N. J., sampled with Barbee & Barbee, Raleigh. Contained: Moisture 16.42, available phosphoric acid 11.04, insoluble phosphoric acid 1.07, ammonia 3.16, potash 1.64 per cent. Relative commercial value per ton, \$34.15.

3173. Long's Prepared Chemicals, Jno. R. Long & Co., Baltimore, sampled with B. D. Heath & Co., Monroe. Contained: Moisture 11.29, available phosphoric acid 10.81, insoluble phosphoric acid 3.80, potash 2.57 per cent. Relative commercial value per ton, \$22.03.

3184. Merryman's Ammoniated Dissolved Bone, John Merryman & Co., Baltimore, sampled with Miller Bros., Shelby. Contained: Moisture 11.10, available phosphoric acid 9.39, insoluble phosphoric acid 3.47, ammonia 2.67, potash 2.16 per cent. Relative commercial value per ton, \$29.74.

3139. Navassa Acid Phosphate, Navassa Guano Co., Wilmington, N. C., sampled with Branch & Hadley, Wilson, contained: Moisture 15.82, available phosphoric acid 10.75, insoluble phosphoric acid 3.17, potash 1.80 per cent. Relative value per ton, \$21.15.

3185. Pacific Guano Co's Dissolved Bone Phosphate of Lime, John S. Reese & Co., Baltimore, sampled with Borders & Howell, Shelby, contained: Moisture 11.48, available phosphoric acid 12.08, insoluble phosphoric acid 4.01 per cent. Relative commercial value per ton, \$21.74.

3182. Peruvian Mixture, American Fertilizing Co., Norfolk, Va., sampled with A. H. McLeod, Lumberton, contained: Moisture 15.72, available phosphoric acid 10.90, insoluble phosphoric acid 1.61, ammonia 2.78, potash 1.64 per cent. Relative commercial value per ton, \$32.38.

3207. Piedmont Special Fertilizer, Piedmont Guano Co., sampled with R. R. Harris, Franklinton, contained: Moisture 14.34, available phosphoric acid 8.97, insoluble phosphoric acid 2.39, ammonia 2.60, potash 1.69 per cent. Relative commercial value per ton, \$28.23.

3114. Pine Island Ammoniated Phosphate, Quinnippie Fertilizer Co., New London, Conn., sampled with Everett Bros. & Gill, Laurinburg, contained: Moisture 13.03, available phosphoric acid 10.12, insoluble phosphoric acid 2.11, ammonia 3.10, potash 1.89 per cent. Relative commercial value per ton, \$32.51.

3169. Plow Brand Raw Bone Superphosphate, Walton, Whann & Co., Wilmington, Del., sampled with J. J. McMurry & Co., Shelby. Contained: Moisture 12.91, available phosphoric acid 10.15, insoluble phosphoric acid 2.40, ammonia 3.25, potash 2.87 per cent. Relative commercial value per ton, \$34.14.

3206. Pocomoke Superphosphate, Freeman, Lloyd, Mason & Dryden, Norfolk, Va., sampled with W. P. Baughman, Washington. Contained: Moisture 17.87, available phosphoric acid 10.17, insoluble phosphoric acid 3.21, ammonia 3.19, potash 4.67 per cent. Relative commercial value \$36.00.

3131. Prolific Cotton Grower, Goldsboro Oil Co., Goldsboro, N. C., sampled with Goldsboro Oil Co., Goldsboro, N. C. Contained: Moisture 9.49, available phosphoric acid 9.64, insoluble phosphoric acid 1.23, ammonia 2.73, potash 3.31 per cent. Relative commercial value per ton, \$31.58.

3155. Raleigh Standard Guano, Raleigh Oil Mills and Fertilizer Co., Raleigh, sampled with Williamson & Upchurch, Raleigh. Contained: Available phosphoric acid 8.86, insoluble phosphoric acid 1.82, ammonia 3.30, potash 2.55 per cent. Relative commercial value per ton \$31.70.

3146. Red Navassa Guano Ammoniated, Navassa Guano Company, Wilmington, N. C., sampled with Arrington, Muse & Co., Rocky Mount. Contained: Moisture 17.40, available phosphoric acid 9.29, insoluble phosphoric acid 3.07, ammonia 1.95, potash 1.46 per cent. Relative commercial value per ton, \$25.98.

3181. Reliance Ammoniated Superphosphate, Walton, Whann & Co., Wilmington, Del., sampled with O. C. Norment & Co., Lumberton. Contained: Moisture 12.74, available phosphoric acid 9.28, insoluble phosphoric acid 2.34, ammonia 2.23, potash 2.53 per cent. Relative commercial value per ton, \$28.15.

3132. Special Cotton Compound, G. Ober & Sons's Co., Baltimore, sampled with Hines, Hadley & Co., Wilson. Contained: Moisture 14.55, available phosphoric acid 10.15, insoluble phosphoric acid 1.69, ammonia 2.60, potash 1.86 per cent. Relative commercial value per ton, \$30.53.

3205. Special Compound for Tobacco, G. Ober & Sons's Co., Baltimore, sampled with Egerton Bros., Macon. Contained: Moisture 18.25, available phosphoric acid 9.02, insoluble phosphoric acid 2.01, ammonia 3.46, potash 2.68 per cent. Relative commercial value per ton, \$32.75.

3142. Stono Acid Phosphate, Stono Phosphate Co., Charleston, sampled with Geo. Allen & Co., New Berne.

Contained: Moisture 14.53, available phosphoric acid 10.07, insoluble phosphoric acid 2.72, potash 1.58 per cent. Relative commercial value per ton, \$20.31.

3178. Stono Soluble Guano, Stono Phosphate Co., Charleston, sampled with A. H. McLeod, Lumberton. Contained: Moisture 10.34, available phosphoric acid 7.35, insoluble phosphoric acid 4.53, ammonia 3.62, potash 1.72 per cent. Relative commercial value per ton, \$29.43.

3133. Walker's Ammoniated Cotton Phosphate, Joshua Walker, Baltimore, sampled with J. T. Farmer, Wilson. Contained: Moisture 15.66, available phosphoric acid 9.19, insoluble phosphoric acid 2.45, ammonia 2.45, potash 2.17 per cent. Relative commercial value per ton, \$28.51.

3166. Wando Acid Phosphate, Wando Phosphate Co., Charleston, S. C., sampled with N. F. Yorke, Concord, contained: Moisture 12.11, available phosphoric acid 12.35, insoluble phosphoric acid 2.62 per cent. Relative commercial value per ton, \$22.23.

3102. Zell's Ammoniated Bone Superphosphate, Zell Guano Co., sampled with Williamson & Upchurch, Raleigh, contained: Moisture 15.30, available phosphoric acid 9.22, insoluble phosphoric acid 2.97, ammonia 2.88, potash 1.69 per cent. Relative commercial value per ton, \$29.81.

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