

The following soil test and fertilizer cost sheet was provided by Southern States

Fertilizer & Cost on hand at Southern States

18-46-0 = \$435/ton 0-0-60 = \$325/ton 46-0-0 = \$345/ton Pellet Lime = \$180/ton



1) Show all work for questions two through seven – chart is optional and only for your benefit. When calculating, utilize two decimals beyond the whole number. (20 points)

Fertilizer Rations	Element	\$/ton	\$/lb	Lbs. of	Cost/acre
	lbs./ton			fertilizer/acre	
18-46-0	920 – P	435	0.22	565.22	124.35
	360 - N				
46-0-0	920 – N	345	0.17	0	0
0-0-60	1200 - K	325	0.16	191.67	30.67

Phosphorus 920/2000 = 260/x; 920x = 520,000x = 565.22 565.22 * .18 (% Nitrogen present) = 101.74 20 (Nitrogen needed for field) – 101.74 = -81.74

Potassium 1200/2000 = 115/x1200x = 230,000x = 191.67

- 2) How much total nitrogen was spread on the field? 8851.38 lbs (5 points)
- 3) If you could only afford half the cost of the required lime needed, how much would it cost for the entire field? \$7,830 (5 points)
- 4) What does DAP stand for? **Di-Ammonium Phosphate** (5 points)
- 5) How many tons of Ammonia Nitrate was used on this field? 0 was used on the field (5 points)
- 6) How many total pounds per acre would be spread on the field (excluding lime and micronutrients)? 65,849.43 lbs. (5 points)
- 7) What is the total fertilizer cost for the field (excluding lime and micronutrients)? \$13,486.74 (5 points)