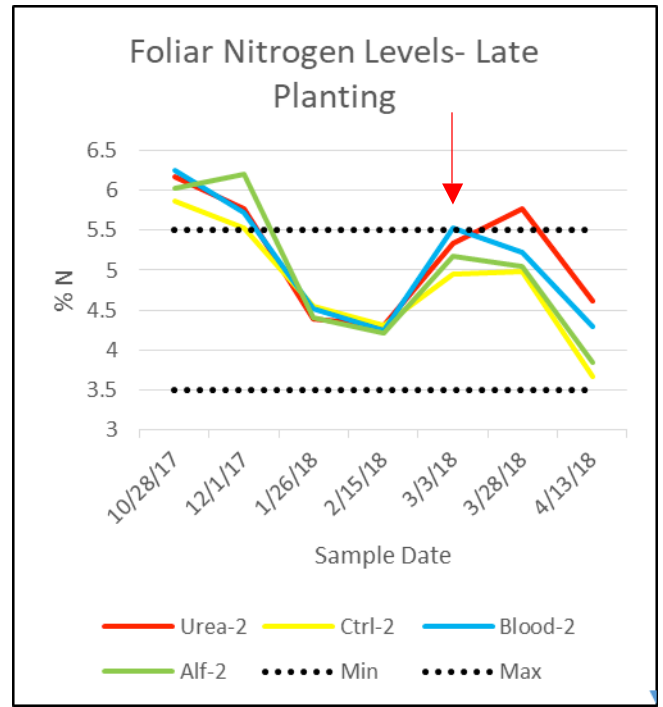
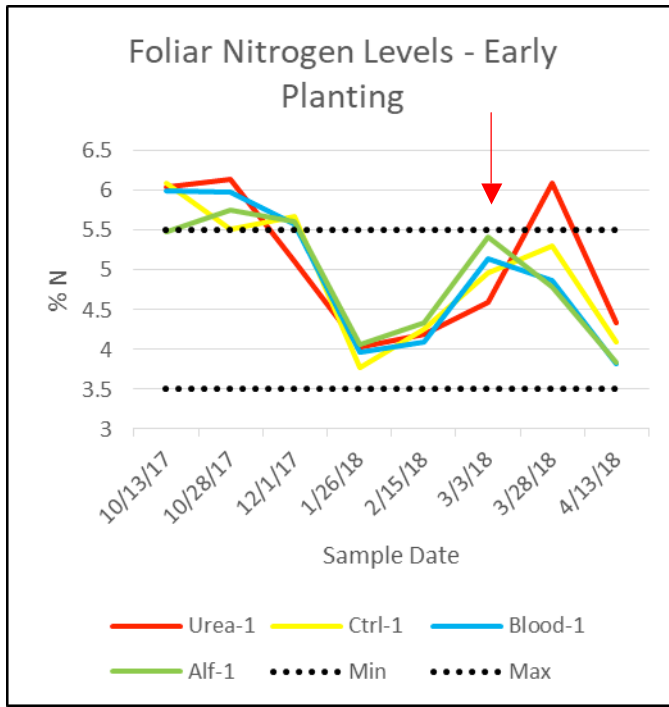


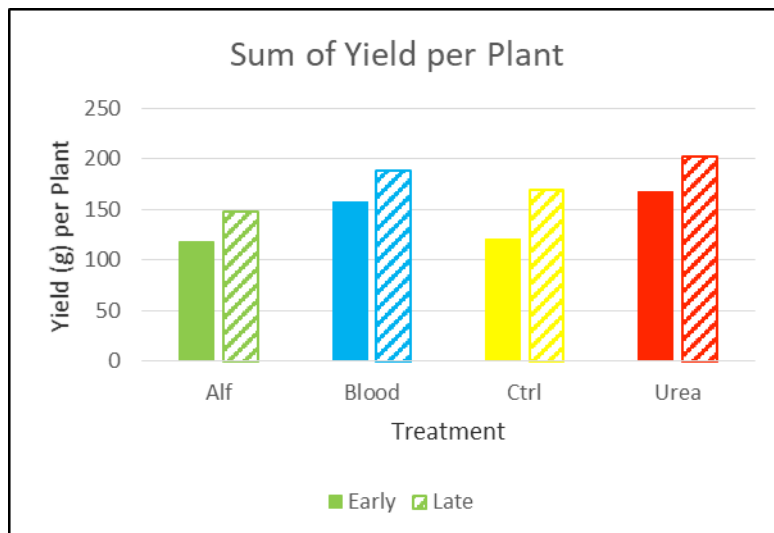
### APPENDIX 3: Spinach Trial Tables

**Key:** **Alf** – alfalfa meal, **Blood** – blood meal, **Ctrl** – Control

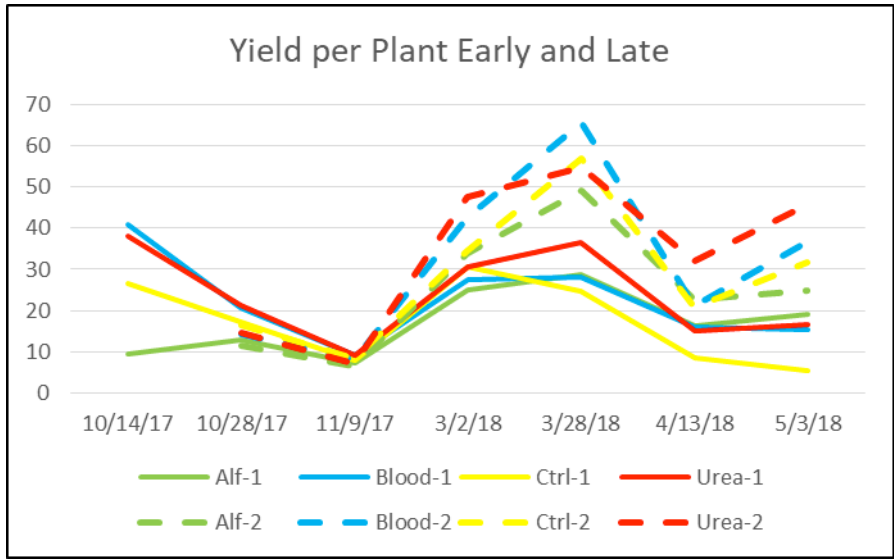
Early Planting was transplanted on Sept 20, 2017, Late Planting was transplanted on Oct 6, 2017 (16 days apart)



**Figures 1 and 2. Nutrient Levels Over Time in Early and Late Winter Spinach Plantings. Red downward arrows indicate when sidedressing of urea and bloodmeal occurred. Horizontal dotted lines show minimum and maximum levels of %N (nitrogen). At no time did any of the treatments, including the control with no additional N, drop below the minimum level of N. Winter Spinach Trial, NNYADP Project, 2017-2018.**



**Figure 3. Sum of Yield Per Plant. In each treatment the early planting yielded less overall than the late planting. The following chart shows when each planting peaked. The Blood Meal and Urea treatments had similar yields to each other. The Alfalfa Meal and Control had similar yields to each other. Winter Spinach Trial, NNYADP Project, 2017-2018.**



**Figure 4. Yield Per Plant.** The early planting yielded in fall and late winter while the late planting peaked in March. These timings are important considerations for growers planning harvests for Nov-Dec holiday sales vs. late winter market sales. The 7 harvest dates are along X axis. Winter Spinach Trial, NNYADP Project, 2017-2018.

**Table 1. Conditions (Temperature) Inside and Outside Tunnel, Winter Spinach Trial, NNYADP Project, 2017-2018.**

Conditions Inside the Tunnel		
Location	Min (°F)	Max (°F)
Soil temp 2" deep in center of tunnel, under row cover	27.538	63.648
Soil temp 2" deep north side of tunnel, without row cover	22.968	64.888
Air temp 12" above soil without row cover	-14.001	75.333
Conditions Outside the Tunnel		
15 days below zero from late December to early Feb		
Dec min temp was -15.7(°F) , Jan min temp was -19.5(°F)		