

**Figure 2.** Response of grain and silage yield to fertilizer N at planting at 6 farms with no-till (left) and at 9 farms with manure (right).



**Figure 3.** Response of basal stalk nitrate concentrations to fertilizer N application at five manure farms (left) and six no-till farms (right) in the fall of 2011.



**Figure 4.** The effect of manure application of the amount of fertilizer N needed to maximize grain yield at 3 of 9 fields (Howard Lake, St. Rosa, and Waseca).