Effects of Seed Placed Lime to Reduce the Acidifying Affects of Nitrogen Fertilizers Under Direct Seeding. (S04-schwab140319-Oral)

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Abstract:

Soils in eastern Washington are becoming increasingly acidic due to high nitrogen rates and direct seed planting methods. Broadcast applications of lime are not feasible due to spreading difficulties caused by excessive slope and the high cost of lime in this region of the country. A field study was initiated to determine the effect of 100 and 200 kg ECC ha-1 (placed in direct seed contact) on wheat growth and yield using direct seeding planting methods. First year results showed no significant increase (compared to the no-lime check) in plant dry matter production or yield for either rate of lime. However, soil seed zone pH was significantly increased with 200 kg lime. Significant results from the first two years of this study will be discussed.

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