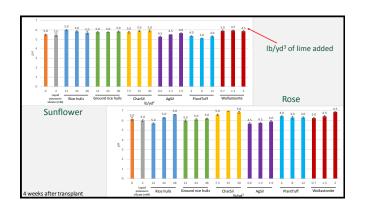
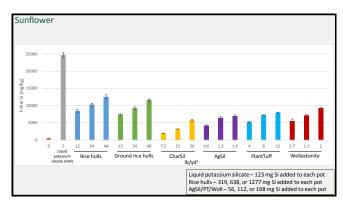
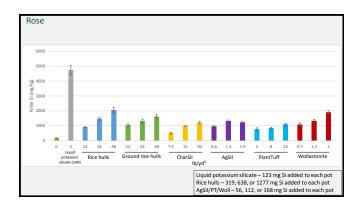
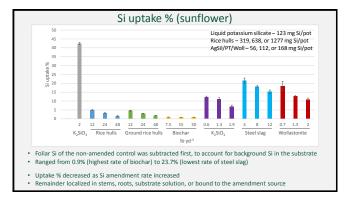


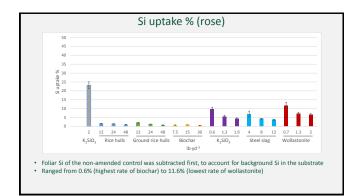
Methods • Sunflower 'Pacino Gold' • 85 peatmoss: 15 perlite base substrate • Rose 'Daniela' • 100% peatmoss base substrate • 4.5" pots • Lime added to adjust initial substrate pH to 6.2-6.5 • Si amendments added to base substrate at 3 incorporation rates • Fertilized with 15-5-15 at 150 mg·L¹ N • 72 °F day/ 68 °F night air temperature • 14 h photoperiod; supplemental lighting when ambient irradiance <300 μmol·m²-s·¹ (DLI = 10.8 mol·m²-d¹)











Summary

- Very little differences in growth when the liming potential of the Si amendments was considered (and adjusted for)
- The increased surface area of the ground rice hulls did not increase Si uptake compared to intact rice hulls
- Over a short production cycle, <25% of Si was incorporated into leaves
 We would like to investigate the longevity of these amendments in the substrate
- \bullet Other factors can be considered when selecting a Si amendment
 - Cost, availability, liming potential, micronutrient availability, etc.

