

## Career Publication List for Alan J. Schlegel to January 2014.

1. Boyer, J.S., P. Byrne, K.G. Cassman, M. Cooper, D. Delmer, T. Greene, F. Gruis, J. Habben, N. Hausmann, N. Kenny, R. Lafitte, S. Paszkiewicz, D. Porter, **A. Schlegel**, J. Schussler, T. Setter, J. Shanahan, R.E. Sharp, T.J. Vyn, D. Warner, and J. Gaffney. 2013. The U.S. drought of 2012 in perspective: A call to action. *Global Food Security* 2:139-143.
2. Blanco-Canqui, H. J.D. Holman, **A.J. Schlegel**, J. Tatarko, and T.M. Shaver. 2013. Replacing fallow with cover crops in a semiarid soil: Effects on soil properties. *Soil Sci. Soc. Am. J.* 77:1026-1034.
3. Blanco-Canqui, H. and **A.J. Schlegel**. 2013. Implications of inorganic fertilization of irrigated corn on soil properties: Lessons learned after 50 years. *J. Environ. Qual.* 42:861-871.
4. Liu, L., N. Klocke, S. Yan, D. Rogers, **A. Schlegel**, F. Lamm, S.I. Chang, and D. Wang. 2013. Impact of deficit irrigation on maize physical and chemical properties and ethanol yield. *Cereal Chemistry* 90:453-462.
5. Reddy, S.S., P.W. Stahlman, P.W. Geier, C.R. Thompson, R.S. Currie, **A.J. Schlegel**, B.L. Olson, and N.G. Lally. 2013. Weed control and crop safety with premixed pyrasulfotole and bromoxynil in grain sorghum. *Weed Tech.* 27:664-670.
6. Van Pelt, R.S., M.C. Baddock, T.M. Zobeck, **A.J. Schlegel**, M.F. Vigil, and V. Acosta-Martinez. 2013. Field wind tunnel testing of two silt loam soils on the North American Central High Plains. *Aeolian Research* 10:53-59.
7. **Schlegel, A.J.**, L.R. Stone, T.J. Dumler, and F.R. Lamm. 2012. Managing diminished irrigation capacity with preseason irrigation and plant density for corn production. *Trans. ASABE* 55(2):525-531.
8. Halvorson, A.D. and **A.J. Schlegel**. 2012. Crop rotation effect on soil carbon and nitrogen stocks under limited irrigation. *Agron J.* 104:1265-1273.
9. Frank, B.J., **A.J. Schlegel**, L. R. Stone, and M.B. Kirkham. 2013. Association of grain yield with identifiable plant characteristics of corn hybrids in the west-central Great Plains. *Agron J.* (in press).
10. Abit, M.J.J., K. Al-Khatib, B.L. Olson, P.W. Stahlman, P.W. Geier, C.R. Thompson, R.S. Currie, **A.J. Schlegel**, J.D. Holman, K.A. Hudson, D.E. Shoup, M.J. Moechnig, W.J. Grichar, and B.W. Bean. 2011. Efficacy of postemergence herbicides tankmixes in aryloxyphenoxypropionate-resistant grain sorghum. *Crop Protection* 30:1623-1628.
11. Blanco-Canqui, H., **A.J. Schlegel**, and W.F. Heer. 2011. Soil-profile distribution of carbon and associated properties in no-till along a precipitation gradient in the central Great Plains. *Agric. Ecosystems Environment* 144:107-116.
12. Holman, J.D., **A.J. Schlegel**, B.L. Olson, and S.R. Maxwell. 2011. Volunteer glyphosate-tolerant corn reduces soil water storage and winter wheat yields. Online. *Crop Management* doi:10.1094/CM-2011-0629-01-RS.
13. Holman, J.D., **A.J. Schlegel**, C.R. Thompson, and J. Lingenfelser. 2011. Influence of precipitation, temperature, and 55 years on winter wheat yields in western Kansas. Online. *Crop Management* doi:10.1094/CM-2011-1229-01-RS.
14. Stone, L.R., N.L. Klocke, **A.J. Schlegel**, F.R. Lamm, and D.J. Tomsicek. 2011. Equations for drainage component of the field water balance. *Applied Engr. Agric.* 27:345-350.
15. Blanco-Canqui, H., N.L. Klocke, **A.J. Schlegel**, L.R. Stone, and C.W. Rice. 2010. Impacts of deficit irrigation on carbon sequestration and soil physical properties under no-till. *Soil Science Soc. Amer. J.* (74:1301-1309).

16. Blanco-Canqui, H., L.R. Stone, **A.J. Schlegel**, J.G. Benjamin, M.F. Vigil, and P.W. Stahlman. 2010. Continuous cropping systems reduce near-surface maximum compaction in no-till soils. *Agron. J.* 102:1217-1225.
17. Helms, T.C., R.A. Scott, W.T. Schapaugh, R.J. Goos, D.W. Franzen, and **A.J. Schlegel**. 2010. Soybean iron-deficiency chlorosis tolerance and yield decrease on calcareous soils. *Agron. J.* 102:492-498.
18. Holman, J.D., C.R. Thompson, R.L. Hale, and **A.J. Schlegel**. 2010. Forage yield and nutritive value of hard red and hard white winter wheat. *Agron. J.* 102:759-773.
19. Stone, L.R. and **A.J. Schlegel**. 2010. Tillage and crop rotation phase effects on soil physical properties in the west-central Great Plains. *Agron. J.* 102:483-491.
20. Williams, J.R., R.V. Llewelyn, D.L. Pendell, **A.J. Schlegel**, T.J. Dumler. 2010. A risk analysis of converting Conservation Reserve Program acres to a wheat-sorghum-fallow rotation. *Agron. J.* 102:612-622.
21. Blanco-Canqui, H., M.M. Mikha, J.G. Benjamin, L.R. Stone, **A.J. Schlegel**, D.J. Lyon, M.F. Vigil, and P.W. Stahlman. 2009. Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility. *Soil Sci. Soc. Amer. J.* 73:1-8.
22. Blanco-Canqui, H., L.R. Stone, **A.J. Schlegel**, D.J. Lyon, M.F. Vigil, M.M. Mikha, P.W. Stahlman, and C.W. Rice. 2009. No-till induced increase in organic carbon reduces maximum bulk density of soils. *Soil Sci. Soc. Amer. J.* 73:1871-1879.
23. Burton, R.O., R.P. Smith, and **A.J. Schlegel**. 2009. Economics of reduced-till, no-till and opportunity cropping in western Kansas. *J. American Society Farm Managers Rural Appraisers.* 72:164-176.
24. Holman, J.D., C.R. Thompson, R.L. Hale, and **A.J. Schlegel**. 2009. Grazing effects on yield and quality of hard red and hard white winter wheat. *Agron. J.* 101:775-788.
25. Lyon, D.J., A.D. Pavlista, G.W. Hergert, R.N. Klein, C.A. Shapiro, S. Knezevic, S.C. Mason, L.A. Nelson, D.D. Baltensperger, R.W. Elmore, M.F. Vigil, **A.J. Schlegel**, B.L. Olson, and R.M. Aiken. 2009. Skip-row planting patterns stabilize corn grain yields in the central Great Plains. Online. *Crop Management* doi:10.1094/CM-2009-0224-02-RS.
26. Stone, L.R., F.R. Lamm, **A.J. Schlegel**, and N.L. Klocke. 2008. Storage efficiency of off-season irrigation. *Agron. J.* 100:1-8.
27. Wilde, G., K. Roozeboom, A. Ahmad, M. Claassen, B. Gordon, W. Heer, L. Maddux, V. Martin, P. Evans, K. Kofoid, J. Long, **A. Schlegel**, and M. Witt. 2007. Seed treatment effects on early-season pests of corn and on corn growth and yield in the absence of insect pests. *J. Agric. Urban Entomology.* 24:177-193.
28. Stone, L.R. and **A.J. Schlegel**. 2006. Yield-water supply relationships of grain sorghum and winter wheat. *Agron. J.* 98:1359-1366.
29. Stone, L.R., **A.J. Schlegel**, A.H. Khan, N.L. Klocke, and R.M. Aiken. 2006. Water supply:yield relationships developed for study of water management. *J. Nat. Resour. Life Sci. Educ.* 35:161-173.
30. **Schlegel, A.J.** and C.A. Grant. 2006. Soil Fertility. P. 141-194. *In* G.A. Peterson, P.W. Unger, and W.A. Payne. 2<sup>nd</sup> ed. *Dryland Agriculture.* Agron. Monogr. 23. ASA, CSSA, and SSSA, Madison, WI.
31. McVay, K.A., J.A. Budde, K. Fabrizzi, M.M. Mikha, C.W. Rice, **A.J. Schlegel**, D.E. Peterson, D.W. Sweeney, and C. Thompson. 2006. Management effects of soil physical properties in a long-term tillage studies in Kansas. *Soil Sci. Soc. Am. J.* 70:434-438.
32. Bandura, V., B.A. Stewart, L. Baumhardt, S. Ambati, C.A. Robinson, and **A.J. Schlegel**. 2006. Growing dryland grain sorghum in clumps to reduce vegetative growth and increase yield. *Agron. J.* 98:1109-1120.

33. Gehl, R.J., J.P. Schmidt, L.R. Stone, **A.J. Schlegel**, and G.A. Clark. 2005. *In situ* measurements of nitrate leaching implicate poor nitrogen and irrigation management on sandy soils. *J. Environ. Qual.* 34:2243-2254.
34. **Schlegel, A.J.**, C.A. Grant, and J.L. Havlin. 2005. Challenging approaches to N fertilizer recommendations in continuous cropping systems in the Great Plains. *Agron. J.* 97:391-398.
35. Lamm, F.R., **A.J. Schlegel**, and G. Clark. 2004. Development of a best management practice for nitrogen fertigation of corn using SDI. *Applied Engineering Agriculture.* 20:211-220.
36. Godsey, C.B., J.P. Schmidt, **A.J. Schlegel**, R.K. Taylor, C.R. Thompson, and R.J. Gehl. 2003. Correcting iron deficiency in corn with seed-row applied iron sulfate. *Agron. J.* 95:160-166.
37. Martin, T.J., D.L. Siefers, A. Fritz, T.L. Harvey, and **A.J. Schlegel**. Registration of Lakin wheat. Plant Variety Protection Certificate 200200049.
38. Martin, T.J., D.L. Siefers, J.P. Michaud, T.L. Harvey, A. Fritz, and **A.J. Schlegel**. Registration of Stanton wheat. Plant Variety Protection Certificate 200200050.
39. **Schlegel, A.J.**, K.C. Dhuyvetter, and J.L. Havlin. 2003. Placement of UAN for dryland winter wheat in the central High Plains. *Agron. J.* 95:1532-1541.
40. Stone, L.R., D.E. Goodrum, **A.J. Schlegel**, M.N. Jaafar, and A.H. Khan. 2002. Water depletion depth of grain sorghum and sunflower in the central High Plains. *Agron. J.* 94:936-943.
41. **Schlegel, A.J.**, T.J. Dumler, and C.R. Thompson. 2002. Feasibility of four-year crop rotations in the central Great Plains. *Agron. J.* 94:509-517.
42. Bohm, S.U., C.W. Rice, and **A.J. Schlegel**. 2002. Soil carbon turnover in residue managed wheat and grain sorghum study. p.255-263, *in* J.M. Kimble, R. Lal, and R.F. Follett (ed.) *Agricultural Practices and Policies for Carbon Sequestration in Soil*, CRC Press, Boca Raton, FL.
43. Martin, T.J., R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, **A.J. Schlegel**, P.J. McCluskey, and J.H. Hatchett. 2001. Registration of 'Trego' wheat. *Crop Sci.* 41:929-930.
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45. **Schlegel, A.J.**, K.C. Dhuyvetter, C.R. Thompson, and J.L. Havlin. 1999. Agronomic and economic impacts of tillage and rotation on wheat and sorghum. *J. Prod. Agric.* 12:629-636.
46. Halvorson, A.D., J.L. Havlin, and **A.J. Schlegel**. 1997. Nutrient management for sustainable dryland farming systems. *Annals of the Arid Zone J.* 36(3):233-254.
47. Havlin, J.L. and **A.J. Schlegel**. 1997. Dryland conservation technologies: Enhancing agricultural profitability and sustainability. *Annals of the Arid Zone J.* 36(3):291-303.
48. **Schlegel, A.J.** and J.L. Havlin. 1997. Green fallow for the central Great Plains. *Agron. J.* 89:762-767.
49. Khan, A.H., L.R. Stone, O.H. Buller, **A.J. Schlegel**, M.C. Knapp, J.I. Perng, H.L. Manges, and D.H. Rogers. 1996. Educational software for illustration of drainage, evapotranspiration, and crop yield. *J. Nat. Resour. Life Sci. Educ.* 25:170-174.
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51. **Schlegel, A.J.**, K.C. Dhuyvetter, and J.L. Havlin. 1996. Economic and environmental impact of long-term nitrogen and phosphorus fertilization. *J. Prod. Agric.* 9:114-118.
52. Stone, L.R., **A.J. Schlegel**, R.E. Gwin, Jr., and A.H. Khan. 1996. Response of corn, grain sorghum, and sunflower to irrigation in the High Plains of Kansas. *Agric. Water Mgmt.* 30:251-259.
53. **Schlegel, A.J.** and J.L. Havlin. 1995. Corn response to long-term nitrogen and phosphorus fertilization. *J. Prod. Agric.* 8:181-185.

54. Stone, L.R., **A.J. Schlegel**, F.R. Lamm, and W.E. Spurgeon. 1994. Storage efficiency of preplant irrigation. *J. Soil Water Cons.* 49:338-343.
55. Williams, J.R., P.L. Diebel, P.T. Berends, and **A.J. Schlegel**. 1994. Economic feasibility of using composted manure on irrigated grain sorghum. *J. Prod. Agric.* 7:323-327.
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58. **Schlegel, A.J.** 1991. Reduced ammonia phytotoxicity from UAN solution by the urease inhibitor N-(n-butyl) thiophosphoric triamide. *J. Fert. Issues.* 8:40-44.
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