

## 2006 Publications:

---

1348. Al-Maskri, A.Y., M. Shahid and **A.A. Jaradat**. 2006. Multivariate phenotypic structures in Batini barley landrace from Oman. *Journal of Food, Agriculture, and the Environment*. 4(2):208-212. ([255 K](#))
1330. **Archer, D.W.**, T.D. Crocker and J.F. Shogren. 2006. Choosing children's environmental risk. *Environ. & Resource Econ.* 33:347-369. ([300 K](#))
1338. **Archer, D.W.** and **H. Kludze**. 2006. Transition to organic cropping systems under risk. In: *Proc. American Agricultural Economics Assoc. Annual Meeting, July 23-26, 2006, Long Beach, CA*. 24 p. [PDF: 121 K](#)
1318. Bisikwa, J., R.L. Becker, N.R. Jordan, D.D. Biesboer, S.A. Katovich, and **F. Forcella**. 2006. Effect of method and time of buckthorn management on seedling establishment and resprouting ability of established buckthorn saplings [abstract] [CD-ROM]. 46<sup>th</sup> Annual Meeting of the Weed Science Society of America. WSSA Annual Meeting. Feb. 13-16, 2006, New York, NY. [PDF: 162 K](#)
1317. Bisikwa, J., R.L. Becker, N.R. Jordan, D.D. Biesboer, S.A. Katovich, and **F. Forcella**. 2006. Effect of surface litter on seedling emergence and establishment of European buckthorn (*Rhamnus cathartica*) [abstract] [CD-ROM]. 46<sup>th</sup> Annual Meeting of the Weed Science Society of America. WSSA Annual Meeting. Feb. 13-16, 2006, New York, NY. [PDF: 163 K](#)
1351. Callaham, Jr., M.A., G. Gonzalez, C.M. Hale, L. Heneghan, **S.L. Lachnicht**, X. Zou. 2006. Policy and management response to earthworm invasions in North America. *Biol Invasions* 8:1317-1329. ([483 K](#))
1312. Chao, Wun S., Marcelo D. Serpe, James V. Anderson, **Russ W. Gesch**, David P. Horvath. 2006. Sugars, hormones, and environment affect the dormancy status in underground adventitious buds of leafy spurge (*Euphorbia esula*). *Weed Science*. 54:59-68. ([575 K](#))
1335. Clay, S.A., K.R. Banken, **F. Forcella**, M. Ellsbury, D.E. Clay and A.E. Olness, 2006. Influence of yellow foxtail on corn growth and yield. *Communications in Soil Science and Plant Analysis*. 37:1421-1435. ([177 K](#))
1328. Clay, S.A., B. Kreutner, D.E. Clay, C. Reese, J. Kleinjan and **F. Forcella**. 2006. Spatial distribution, temporal stability, and yield loss estimates for annual grasses and common ragweed (*Ambrosia artimissiifolia*) in a corn/soybean production field over nine years. *Weed Sci.* 54:380-390. ([1811 K](#))

1319. **Forcella, F. 2006.** Honeybees as novel herbicide delivery systems [abstract] [CD-ROM]. 46<sup>th</sup> Annual Meeting of the Weed Science Society of America. WSSA Annual Meeting. Feb. 13-16, 2006, New York, NY. [PDF: 165 K](#)
1372. **Forcella, F. and D. Archer. 2006.** Canada thistle phenology. North Central Weed Sci. Soc. Abstr. 61:158. [CD-ROM Computer File]. North Central Weed Sci. Soc., Champaign, IL (Dec. 2006). ([13 K](#))
1337. Franzluebbers, A.J., R.F. Follett, **J.M-F, Johnson, M.A.** Liebig, E.G. Gregorich, T.B. Parkin, J.L. Smith, S.J. Del Grosso, M.D. Jawson and D.A. Martens. 2006. Agricultural exhaust: A reason to invest in soil. J. Soil Water Conserv. 61(3):98-101. [PDF: 131 K](#).
1359. **Gesch, R.W., and D.W. Archer. 2006.** Reducing the risk of poor soybean emergence in no-till soil in the northern Corn Belt [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K](#).
1366. **Gesch, R.W., F. Forcella, A. Olness, D. Archer, A. Hebard. 2006.** Agricultural management of cuphea and potential for commercial production in the Northern Corn Belt. Industrial Crops and Products 24:300-306. ([146 K](#))
1407. Gulya Jr, T.J., **R.W. Gesch**, C.A. Bradley, L.E. del Rio, B.L. Johnson. 2006. First report of Sclerotinia sclerotiorum infection on Cuphea. Plant Disease Note. 90:1554. Available: <http://www.apsnet.org/pd/searchnotes/2006/pd-90-1554a.asp> [PDF: 29 K](#).
1350. Hendrix, P.F., G.H. Baker, M.A. Callaham, Jr., G.A. Damoff, C. Fragoso, G. Gonz?lez, S.W. James, **S. L. Lachnicht**, T. Winsome and X. Zou. 2006. Invasion of exotic earthworms into ecosystems inhabited by native earthworms. Biol Invasions 8:1287-1300. ([208 K](#))
1336. **Jaradat, A.A. 2006.** Date palms of Arabia: A multifunctional genetic resource [abstract]. International Conf. Date Palm Production & Processing Technology, May 9-11, 2006, Muscat, Oman. p. 8. [PDF: 212 K](#).
1377. **Jaradat, A.A. 2006.** Multivariate analyses procedures: Applications in plant breeding, genetics and agronomy. In: Acquaah, G., editor. Principles of Plant Genetics and Breeding. Williston, VT: Blackwell Publishing. p. 155-160. [PDF: 374 K](#).
1356. **Jaradat, A. A. 2006.** Phenotypic divergence in the meta-population of the Hourani durum wheat landrace. Journal of Food, Agriculture, and the Environment. 4 (3&4):186-191. ([802 K](#))

1406. **Jaradat, A.A., J.M. Johnson**, D.L. Karlen, and W.W. Wilhelm. 2006. Sustainable Production of Crop Residue as a Cellulosic Ethanol Feedstock: REAP - Renewable Energy Assessment Project sponsored by USDA & DOE. Oct. 10-12, 2006, St Louis, MO. Meeting Abstract.
1315. **Jaradat, A.A.** and M. Shahid. 2006. Patterns of phenotypic variation in a germplasm collection of *Carthamus tinctorius* L. from the Middle East. *Genetic Resources and Crop Evolution*. 53:225-244. ([432 K](#))
1341. **Jaradat, A.A.** and M. Shahid. 2006. Population and multilocus isozyme structures in a barley landrace. *Plant Genetic Resources*. 4(2):108-116. [PDF: 161K](#).
1354. **Jaradat, A.A.**, D. Surek., and **D.W. Archer**. 2006. Phenotypic plasticity and fractal dimension are strong determinants of grain yield in soybean [abstract]. PMA06: The Second International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications. p. 40. [PDF: 67K](#).
1322. **Johnson, J.M-F**, R.R. Allmaras and **D.C. Reicosky**. 2006. Estimating source carbon from crop residues, roots and rhizodeposits using the national grain-yield database. *Agronomy Journal* 98:622-636. ([216 K](#))
1357. **Johnson, J.M.** , R.R. Allmaras, **D.C. Reicosky**. 2006. Minimum C inputs and sustainability of biomass harvest [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K](#).
1345. **Johnson, J.M.**, **D.C. Reicosky**, R.R. Allmaras, **D.W. Archer**, W.W. Wilhelm. 2006. A matter of balance: Conservation and renewable energy. *Journal of Soil and Water Conservation Society* 61(4):120A-125A. ([1,992 K](#))
1332. Kegode, G. and **Forcella, F**. 2006. Tillage effects on reproductive output by foxtail cohorts in corn and soybean. *Weed Sci*. 54: 419-427. [PDF: 190K](#).
1360. **Kludze, H.K.**, and **D. W. Archer**. 2006. Towards the Carbon credit and trading schemes: Estimation of soil Carb storage as influenced by alternative cropping systems using the EPIC model [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K](#).
1358. **Lachnitch Weyers, S.L.**, **J.M. Johnson**, A.E. Olness, C.E. Clapp, **A.R. Wilts, J.L. Rinke**, and **N.W. Barbour**, 2006. Tracking N use efficiency with <sup>15</sup>N labeling of corn [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 36 K](#).

1311. Li, Y., Q.W. Zhang, **D.C. Reicosky**, L.Y. Bai, **M.J.Lindstrom**, L. Li. 2006. Using  $^{137}\text{Cs}$  and  $^{210}\text{Pb}_{\text{ex}}$  for quantifying soil organic carbon redistribution affected by intensive tillage on steep slopes. *Soil & Tillage Research*. 86: 176-184. ([211 K](#))
1321. Liebig, M., L. Carpenter-Boggs, **J.M-F Johnson**, S. Wright and **N. Barbour**. 2006. Cropping system effects on soil biological characteristics in the Great Plains. *Renewable Agriculture and Food Systems* 21(1):36-48. [PDF: 266 K](#).
1414. **Lindstrom, M.J.** 2006. Tillage erosion: Description and process. In: Lal, R. (editor). *Encyclopedia of Soil Science*. New York, NY: Marcel Dekker. p. 1776-1778. [PDF: 68 K](#).
1368. **Papiernik, S., F. Forcella, R. Gesch** and **G. Amundson**. 2006. Clopyralid tolerance of cuphea. *North Central Weed Sci. Soc. Abstr.* 61:25. [CD-ROM Computer File]. *North Central Weed Sci. Soc.*, Champaign, IL (Dec. 2006). ([13 K](#))
1327. **Papiernik, S.** and W.C. Koskinen. 2006. Dissipation of the herbicide isoxaflutole in agricultural soils. *Am. Chemical Soc.* 70:71. [PDF: 34K](#)
1342. **Papiernik, S.** And W.C. Koskinen. 2006. Isoxaflutole leaching and persistence in three soils of the Midwestern USA. In: *Book of Abstracts of the International Union of Pure and Applied Chemistry, 11th International Congress of Pesticide Chemistry, August 6-11, 2006, Kobe, Japan.* p. 234. [PDF: 75 K](#).
1369. **Papiernik, S.K.,** W.C. Koskinen, B. Barber and **G. Amundson**. 2006. Isoxaflutole dissipation under field conditions in West Central Minnesota. *North Central Weed Sci. Soc. Abstr.* 61:44. [CD-ROM Computer File]. *North Central Weed Sci. Soc.*, Champaign, IL (Dec. 2006). ([68 K](#))
1352. **Papiernik, S.K.,** W.C. Koskinen, L. Cox, P. Rice, S. Clay, N. R. Werdin-Pfisterer, and K.A. Norberg. 2006. Sorption-Desorption of Imidacloprid and its Metabolites in Soil and Vadose Zone Materials. *Journal of Agricultural and Food Chemistry* 54:8163-8170. ([454 K](#))
1347. **Papiernik, S.,** S.R. Yates, J. Gan, R. Dungan, S.M. Lesch, W. Zheng and M. Guo. 2006. Reducing fumigant emissions using surface tarps: Field and laboratory assessments. *Am. Chemical Soc.* 71: 84. [PDF: 25 K](#).
1363. Pikul Jr., J.L., G. Chilom, J. Rice, A. Eynard, T. Schumacher, K. Nichols, **J. Johnson**, S. Wright, T. Caesar-Tonthat, and M. Ellsbury. 2006. Soil Aggregate Stability and Components of Organic Matter Affected by Tillage [abstract] [CD-ROM]. *ASA-CSSA-SSSA Annual Meeting Abstracts*. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF:](#)

1375. **Reicosky, D.C.** 2006. Revegetation and carbon cycling in China's Loess Plateau. In: Fischer, A., Rui, L., Saxena, K.G., Jayakumar, R. (editors). The Loess Plateau in Central China: Ecological Restoration and Management. ERSEC Ecological Book Series -3. Beijing, China: Tsinghu University Press/Springer. p. 135-148. [PDF: 1,138 K.](#)
1396. **Reicosky, D.C.** 2006. Tillage and gas exchange. In: R. Lal, Editor. Encyclopedia of Soil Science. 2nd edition. New York, NY: Marcel Dekker. p. 1773-1775. [PDF: 59 K.](#)
1362. Sainju, U., H. Schomberg, B. Singh, W. Whitehead, P.G. Tillman, and **Sharon Lachnicht Weyers**. 2006. Cover Crops and Sampling Dates Effect on Soil Carbon Pools under Conservation Tillage Cotton. [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K.](#)
1392. Schumacher, T.E., A. Eynard, M.J. Lindstrom, J.A. Schumacher, **S.K. Papiernik**, D.D. Malo, R.A. Kohl and D.A. Lobb. 2006. Aggregate wettability and stability in an eroded landscape. p. 1474-1479. In Proc. Intl. Soil Tillage Res. Organisation 17<sup>th</sup> Triennial Conf., Kiel, Germany. Aug. 28-Sept. 3, 2006. [PDF: 423 K.](#)
1344. Scursoni, Julio, **Frank Forcella**, Jeffrey Gunsolus, Michael Owen, Richard Oliver, Reid Smeda, and Roy Vidrine. 2006. Weed diversity and soybean yield with glyphosate management along a north-south transect in the United States. Weed Science. 54 (4):713-719. ([213 K](#))
1310. **Spokas, Kurt** and **Frank Forcella**. 2006. Estimating hourly incoming solar radiation from limited meteorological data.. Weed Science. 54:182-189. ([396 K](#))
1371. **Spokas, K.** and **F. Forcella**. 2006. Mathematical simulation of soil microclimate conditions for predicting weed seed germination. North Central Weed Sci. Soc. Abstr. 61:89. [CD-ROM Computer File]. North Central Weed Sci. Soc., Champaign, IL (Dec. 2006). [PDF: 14 K.](#)
1370. **Spokas, K., F. Forcella, D. Archer** and **D. Peterson**. 2006. Experimental cylinder comparisons for monitoring seedling emergence. North Central Weed Sci. Soc. Abstr. 61:79. [CD-ROM Computer File]. North Central Weed Sci. Soc., Champaign, IL (Dec. 2006). ([16 K](#))
1320. **Spokas, K., D. Wang, R. Venterea** and **M. Sadowsky**. 2006. Mechanisms of N<sub>2</sub>O production

- following chloropicrin fumigation. *Applied Soil Ecol.* 31:101-109. ([264 K](#))
1376. Unger, P.W., D.W. Fryrear and **M.J. Lindstrom** 2006. Soil conservation. In: Dryland agriculture. Agron. Monogr. 23. ASA, CSSA, SSSA, Madison, WI. [PDF: 272 K](#).
1361. Venterea, R.T., J.M. Baker, M.S. Dolan and **K.A. Spokas**. 2006. Carbon and Nitrogen Storage are Greater under Biennial Tillage in a Minnesota Corn-Soybean Rotation [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K](#).
1343. Venterea, R.T., J.M. Baker, M.S. Dolan and **K.A. Spokas**. 2006. Carbon and Nitrogen storage are greater under biennial tillage in a Minnesota corn-soybean rotation. *Soil Sci. Soc. Am. J.* 70:1752-1762. ([313 K](#))
1331. Vu, Joseph C.V., Leon H. Allen Jr., **Russ W. Gesch**. 2006. Up-regulation of photosynthesis and sucrose metabolism enzymes in young expanding leaves of sugarcane under elevated growth CO<sub>2</sub>. *Plant Science* 171:123-131. ([241 K](#))
1353. Wang, D., S.W. Fraedrich, J. Juzwik, **K. Spokas**, Y. Zhang and W.C. Koskinen. 2006. Fumigant distribution in forest nursery soils under water seal and plastic film after application of dazomet, metam-sodium and chloropicrin. *Pest Management Science.* 62:263-273. ([352 K](#))
1333. Westerman, Paula R., Matt Liebman, Andrew H. Heggenstaller, and **Frank Forcella**. 2006. Integrating measurements of seed availability and removal to estimate weed seed losses due to predation. *Weed Science* 54:566-574. ([546 K](#))
1364. Wilhelm W.W., G.E. Varvel, D. Karlen, **J. M.-F. Johnson**, and J. Baker. 2006. Crop Residue as Feedstock for the New Bioeconomy: Opportunities and Roadblocks [abstract] [CD-ROM]. ASA-CSSA-SSSA Annual Meeting Abstracts. ASA-CSSA-SSSA Annual Meeting. November 12-16, 2006, Indianapolis, IN. [PDF: 38 K](#).
1326. Zheng, W., S.R. Yates, **S.K. Papiernik**, M. Guo and J. Gan. 2006. Dechlorination of chloropicrin and 1,3-dichloropropene by hydrogen sulfide species: Redox and nucleophilic substitution reactions. *J. Agric. Food Chem.* 54:2280-2287. ([142 K](#))
1349. Zheng, W., S.R. Yates, **S.K. Papiernik** and J. Nunez. 2006. Conversion of metam sodium and emission of fumigant from soil columns. *Atmospheric Environ.* 40:7046-7056. ([272 K](#))
1325. Zheng, W., S.R. Yates, **S.K. Papiernik** and Q. Wang. 2006. Reducing 1,3-dichloropropene emissions from soil columns amended with thiourea. *Environ. Sci. Technol.* 40:2402-

2407. ([219 K](#))