

## Pepper Study References

- Alvarez, R., Diaz, R.A., Barbero, N., Santanatoglia, O.J., Blotta, L., 1995. Soil organic carbon, microbial biomass and CO<sub>2</sub>-C production from three tillage systems. *Soil Tillage Res.* 33, 17–28.
- Ashford, D.L., Reeves, D.W., 2003. Use of a mechanical roller-crimper as an alternative kill method for cover crops. *Amer. J. Alt. Agr.* 18, 37–45.
- Baudoin, E., Benizri, E., Guckert, A., 2003. Impact of artificial root exudates on the bacterial community structure in bulk soil and maize rhizosphere. *Soil Biol. Biochem.* 35, 1183–1192.
- Bending, G.D. 2004. Microbial and biochemical soil quality indicators and their potential for differentiating areas under contrasting agricultural management regimes. *Soil Biol. Biochem.* 36, 1785–1792.
- Bernstein, E.R., Posner, J.L., Stoltenberg, D.E., Hedtcke, J.L., 2011. Organically managed no-tillage rye–soybean systems: agronomic, economic, and environmental assessment. *Agronomy J.* 103, 1169–1179.
- Brookes, P.C., Landman, A., Pruden, G., Jenkinson, D.S., 1985. Chloroform fumigation and the release of soil nitrogen: A rapid direct extraction method to measure microbial biomass nitrogen in soil. *Soil Biol. Biochem.* 17, 837–842.
- Brussaard, L., de Ruiter, P.C., Brown, G.G., 2007. Soil biodiversity for agricultural sustainability. *Agr. Ecosyst. Environ.* 121, 233–244.
- Burgos, N.R., Talbert, R.E., 1996. Weed control and sweet corn (*Zea mays* var. *Rugosa*) response in a no-till system with cover crops. *Weed Sci.* 44, 355–361.
- Burkart, M.R., James, D.E., 1999. Agricultural-nitrogen contributions to hypoxia in the Gulf of Mexico. *J. Environ. Qual.* 28, 850–859.
- Cambardella, C.A., Delate, K., Jaynes, D.B., 2015 Water quality in organic systems. *Sustainable Agr. Res.* 4, 60–69.
- Carter, M.R., Rennie, D.A., 1982. Changes in soil quality under zero tillage farming systems: Distribution of microbial biomass and mineralizable C and N potentials. *Canadian J. Soil Sci.* 62, 587–597.
- Constantin, J., Mary, B., Laurent, F., Aubrion, G., Fontaine, A., Kerveillant, P., Beaudoin, N., 2010. Effects of catch crops, no till and reduced nitrogen fertilization on nitrogen leaching and balance in three long-term experiments. *Agr. Ecosyst. Environ.* 135, 268–278.

- Creamer, N.G., Bennett, M.A., Stinner, B.R., Cardina, J., 1996. A comparison of four processing tomato production systems differing in cover crop and chemical inputs. *J. Amer. Soc. Hort. Sci.* 121, 559–568.
- Dabney, S., Delgado, J., Reeves, D., 2001. Using winter cover crops to improve soil and water quality. *Commun. Soil Sci. Plant Anal.* 32, 1221–1250.
- Delate, K., Cambardella, C., McKern, A., 2008. Effects of organic fertilization and cover crops on an organic pepper system. *HortTechnology* 18, 215–226.
- Delate, K., Cwach, D., Chase, C., 2012. Organic no-tillage system effects on soybean, corn and irrigated tomato production and economic performance in Iowa, USA. *Renewable Agr. Food Systems* 27, 49–59.
- Delate, K., Friedrich, H., Lawson, V., 2003. Organic pepper production systems using compost and cover crops. *Biol. Agr. Hort.* 21, 131–150.
- Díaz-Pérez, J.C., Silvoy, J., Phatak, S., Ruberson, J., Morse, R., 2008. Effect of winter cover crops and no-till on the yield of organically-grown bell pepper (*Capsicum annuum* L.). In: Prange, R. and S. Bishop. (eds.). *Proc. XXVII IHC-S11 Sustainability through integrated and organic horticulture. Acta. Hort.* 767, 243–247.
- Diaz, R.J., Rosenberg, R., 2008. Spreading dead zones and consequences for marine ecosystems. *Science* 321, 926–929.
- Dinnes, D.L., Karlen, D.L., Jaynes, D.B., Kaspar, T.C., Hatfield, J.L., Colvin, T.S., Cambardella, C.A., 2002. Nitrogen management strategies to reduce nitrate leaching in tile-drained midwestern soils. *Agron. J.* 94, 153–171.
- Doran, J.W., 1980. Soil microbial and biochemical changes associated with reduced tillage. *Soil Sci. Soc. Am. J.* 44, 765–771.
- Doran, J.W., 1987. Microbial biomass and mineralizable nitrogen distributions in no-tillage and plowed soils. *Biol. Fertil. Soils* 5, 68–75.
- Feyereisen, G.W., Wilson, B.N., Sands, G.R., Strock, J.S., Porter, P.M., 2006. Potential for a rye cover crop to reduce nitrate loss in southwestern Minnesota. *Agron. J.* 98, 1416-1426.
- Govaerts, B., Mezzalama, M., Unno, Y., Sayre, K.D., Luna-Guido, M., Vanherck, K., Dendooven, L., Deckers, J. 2007. Influence of tillage, residue management, and crop rotation on soil microbial biomass and catabolic diversity. *Appl. Soil Ecol.* 37, 18–30.
- Griffith, D.R., Kladviko, E.J., Mannering, J.V., West, T.D., Parsons, S.D., 1988. Long-term tillage and rotation effects on corn growth and yield on high and low organic matter, poorly drained soils. *Agron. J.* 80, 599–605.

- Hadas, A., Bar-Yosef, B., Davidov, S., Sofer, M., 1983. Effect of pelleting, temperature, and soil type on mineral nitrogen release from poultry and dairy manures. *Soil Sci. Soc. Am. J.* 47, 1129–1133.
- Halde, C., Gulden, R.H., Entz, M.H., 2014. Selecting cover crop mulches for organic rotational no-till systems in Manitoba, Canada. *Agron. J.* 106, 1193–2014.
- Hartz, T.K., Hochmuth, G.J., 1996. Fertility management of drip-irrigated vegetables. *HortTechnology* 6, 168–172.
- Hochmuth, G., Maynard, D., Vavrina, C., Hanlon, E., Simonne, E., 2010. Plant tissue analysis and interpretation for vegetable crops in Florida. Univ. Florida, Inst. Food Agr. Sci.
- Hu, S., Grunwald, N.J., van Bruggen, A.H.C., Gamble, G.R., Drinkwater, L.E., Shennan, C., Demment, M.W., 1997. Short-term effects of cover crop incorporation on soil carbon pools and nitrogen availability. *Soil Sci. Soc. Am. J.* 61, 901–911.
- Iowa State University, 2015. Iowa nutrient reduction strategy. <http://www.nutrientstrategy.iastate.edu/> (accessed on 13.01.16).
- Johnson, M.D., Lowery, B., 1985. Effect of three conservation tillage practices on soil temperature and thermal properties. *Soil Sci. Soc. Am. J.* 49, 1547–1552.
- Jones, J.J.B., Case, V.W., 1990. Sampling, handling and analyzing plant tissue samples. p. 389–427. In: Westerman, R. L. (ed.). *Soil testing and plant analysis*. Soil Sci. Soc. Amer., Madison, Wisc.
- Karlen, D.L., Cambardella, C.A., Kovar, J.L., Colvin, T.S., 2013. Soil quality response to long-term tillage and crop rotation practices. *Soil Tillage Res.* 133, 54–64.
- Kaspar, T., Radke, J., Laflen, J., 2001. Small grain cover crops and wheel traffic effects on infiltration, runoff, and erosion. *J. Soil Water Cons.* 56, 160–164.
- Kaspar, T.C., Bland, W.L., 1992. Soil temperature and root growth. *Soil Sci.* 154, 290–299.
- Leavitt, M.J., Sheaffer, C.C., Wyse, D.L., Allan, D.L., 2011. Rolled winter rye and hairy vetch cover crops lower weed density but reduce vegetable yields in no-tillage organic production. *HortScience* 46, 387–395.
- Licht, M.A., Al-Kaisi, M., 2005. Strip-tillage effect on seedbed soil temperature and other soil physical properties. *Soil Tillage Res.* 80, 233–249.
- Linden, D.R., 1977. Design, installation, and use of porous ceramic samplers for monitoring soil-water quality. Dept. Agr., Agricultural Res. Serv.
- Lounsbury, N.P., Weil, R.R., 2014. No-till seeded spinach after winterkilled cover crops in an organic production system. *Renewable Agr. Food Systems*, 1–13.

- Lupwayi, N.Z., Rice, W.A., Clayton, G.W., 1998. Soil microbial diversity and community structure under wheat as influenced by tillage and crop rotation. *Soil Biol. Biochem.* 30, 1733–1741.
- MacDonald, N.W., Zak, D.R., Pregitzer, K.S., 1995. Temperature effects on kinetics of microbial respiration and net nitrogen and sulfur mineralization. *Soil Sci. Soc. Am. J.* 59, 233–240.
- Magdoff, F., van Es, H.M., 2009. Building soils for better crops. *Sustainable Agr. Res. Educ.*
- Mehlich, A., 1984. Mehlich 3 soil test extractant: a modification of Mehlich 2 extractant. *Commun. Soil Sci. Plant Anal.* 15, 1409–1416.
- Mirsky, S.B., Curran, W.S., Mortensen, D.M., Ryany, M.R., Shumway, D.L., 2011. Timing of cover-crop management effects on weed suppression in no-till planted soybean using a roller-crimper. *Weed Sci.* 59, 380–389.
- Mirsky, S.B., Ryan, M.R., Curran, W.S., Teasdale, J.R., Maul, J., Spargo, J.T., Moyer, J., Grantham, A.M., Weber, D., Way, T.R., Camargo, G.G., 2012. Conservation tillage issues: Cover crop-based organic rotational no-till grain production in the mid-Atlantic region, USA. *Renewable Agr. Food Systems* 27, 31–40.
- Mirsky, S.B., Ryan, M.R., Teasdale, J.R., Curran, W.S., Reberg-Horton, C.S., Spargo, J.T., Wells, M.S., Keene, C.L., Moyer, J.W., 2013. Overcoming weed management challenges in cover crop-based organic rotational no-till soybean production in the eastern United States. *Weed Technol.* 27, 193–203.
- Mischler, R., Duiker, S.W., Curran, W.S., Wilson, D., 2010. Hairy vetch management for no-till organic corn production. *Agron. J.* 102, 355–362.
- Moore, J.M., Klose, S., Tabatabai, M.A., 2000. Soil microbial biomass carbon and nitrogen as affected by cropping systems. *Biol. Fertil. Soils* 31, 200–210.
- Mundy, C., Creamer, N.G., Wilson, L.G., Crozier, C.R., Morse, R.D., 1999. Soil physical properties and potato yield in no-till, subsurface-till, and conventional-till systems. *HortTechnology* 9, 240–247.
- Nair, A., Ngouajio, M., 2012. Soil microbial biomass, functional microbial diversity, and nematode community structure as affected by cover crops and compost in an organic vegetable production system. *Appl. Soil Ecol.* 58, 45–55.
- Oorts, K., Laurent, F., Mary, B., Thiébeau, P., Labreuche, J., Nicolardot, B., 2007. Experimental and simulated soil mineral N dynamics for long-term tillage systems in northern France. *Soil Tillage Res.* 94, 441–456.
- Overstreet, L.F., Hoyt, G.D., 2008. Effects of strip tillage and production inputs on soil biology across a spatial gradient. *Soil Sci. Soc. Am. J.* 72, 1454–1463.

- Quemada, M., Cabrera, M.L., 1995. Carbon and nitrogen mineralized from leaves and stems of four cover crops. *Soil Sci. Soc. Am. J.* 59, 471–477.
- Ranells, N.N., Wagger, M.G., 1996. Nitrogen release from grass and legume cover crop monocultures and bicultures. *Agron. J.* 88, 777–882.
- Reicosky, D., Forcella, F., 1998. Cover crop and soil quality interactions in agroecosystems. *J. Soil Water Conserv.* 53, 224–229.
- Schellenberg, D.L., Morse, R.D., Welbaum, G.E., 2009. Organic broccoli production on transition soils: Comparing cover crops, tillage and sidedress N. *Renewable Agr. Food Systems* 24, 85–91.
- Schloter, M., Dilly, O., Munch, J.C., 2003. Indicators for evaluating soil quality. *Agr. Ecosyst. Environ.* 98, 255–262.
- Silva, E.M., 2014. Screening five fall-sown cover crops for use in organic no-till crop production in the Upper Midwest. *Agroecology Sustainable Food Systems* 38, 748–763.
- Smith, A.N., Reberg-Horton, S.C., Place, G.T., Meijer, A.D., Arellano, C., Mueller, J.P., 2011. Rolled rye mulch for weed suppression in organic no-tillage soybeans. *Weed Sci.* 59, 224–231.
- Staver, K.W., Brinsfield, R.B., 1998. Using cereal grain winter cover crops to reduce groundwater nitrate contamination in the mid-Atlantic coastal plain. *J. Soil Water Conserv.* 53, 230–240.
- Thomas, R., O'Sullivan, J., Hamill, A., Swanton, C.J., 2001. Conservation tillage systems for processing tomato production. *HortScience* 36, 1264–1268.
- Tillman, J., Nair, A., Gleason, M., Batzer, J., 2015. Evaluating strip tillage and rowcover use in organic and conventional muskmelon production. *HortTechnology* 25, 487–495.
- Tollner, E.W., Hargrove, W.L., Langdale, G.W., 1984. Influence of conventional and no-till practices on soil physical properties in the southern Piedmont. *J. Soil Water Conserv.* 39, 73–76.
- U.S. Dept. of Agriculture – National Agricultural Statistics Service (USDA-NASS), 2015. 2012 Census of Agriculture, Organic Survey, 2014. [http://www.agcensus.usda.gov/Publications/2012/Online\\_Resources/Organics/ORGANICS.pdf](http://www.agcensus.usda.gov/Publications/2012/Online_Resources/Organics/ORGANICS.pdf) (accessed on 08.01.16).
- U.S. Dept. of Agriculture (USDA). 2005. United States standards for grades of sweet peppers. Agr. Mktg. Serv., Washington, D.C.
- Vance, E.D., Brookes, P.C., Jenkinson, D.S., 1987. Microbial biomass measurements in forest soils: The use of the chloroform fumigation-incubation method in strongly acid soils. *Soil Biol. Biochem.* 19, 697–702.

- Vollmer, E.R., Creamer, N., Reberg-Horton, C., Hoyt, G., 2010. Evaluating cover crop mulches for no-till organic production of onions. *HortScience* 45, 61–70.
- Weaver, J.E., Bruner, W.E., 1927. Root development of vegetable crops McGraw-Hill Book Company, Inc., London.
- Wells, M.S., Reberg-Horton, S.C., Smith, A.N., Grossman, J.M., 2013. The reduction of plant-available nitrogen by cover crop mulches and subsequent effects on soybean performance and weed interference. *Agron. J.* 105, 539–545.
- Wyland, L.J., Jackson, L.E., Chaney, W.E., Klonsky, K., Koike, S., Kimple, B., 1996. Winter cover crops in a vegetable cropping system: Impacts on nitrate leaching, soil water, crop yield, pests and management costs. *Agr. Ecosyst. Environ.* 59, 1–17.
- Zak, J.C., Willig, M.R., Moorhead, D.L., Wildman, H.G., 1994. Functional diversity of microbial communities: A quantitative approach. *Soil Biol. Biochem.* 26, 1101–1108.