

BIOGRAPHICAL SKETCH

Stephen L. Young
Assistant Professor
University of Nebraska-Lincoln
West Central Research & Extension Center
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Education and Training

Institution	Area	Degree	Year Awarded
Washington State University	Horticulture	BS	1996
University of Idaho	Plant Science	MS	2000
University of California, Davis	Soil Science	PhD	2007

Research and Professional Experience

Years	Position
2010-	Assistant Professor, Weed Ecologist, University of Nebraska-Lincoln, West Central Research & Extension Center, North Platte, NE. <i>Currently conducting research on the impacts of invasive plant species in the Platte River using GPS/GIS for monitoring and revegetation as a strategy for control. Researching the competitive interactions between weeds and crops in rainfed agricultural production systems using new technologies.</i>
2008-2010	Post doc, Washington State University, Irrigated Agriculture Research & Extension Center, Prosser, WA. <i>Studied the effects of biofuel crop production on below-ground soil processes, including carbon and nitrogen cycles. Assisted in the design of an automated sensor network for monitoring soil CO₂, O₂, temperature and moisture.</i>
2002-2008	Doctoral Student, University of California, Davis, CA. <u>Dissertation:</u> The effects of species diversity and soil water dynamics on the establishment of yellow starthistle (<i>Centaurea solstitialis</i>) in restored Central Valley plant communities of California.
2000-2002	Staff Research Associate, University of California, Hopland Research & Extension Center, Hopland, CA.
1999-2000	Weed Specialist, United States Forest Service, Potlatch, ID.
1997-2000	Masters Student, University of Idaho, Moscow, ID.

1996-1997 Research Technician, Syngenta Crop Protection, Inc., Yakima, WA.

Publications (selected)

Young, SL. 2010. Weed control in organic systems: Can automation fill the gap? *Resource (ASABE)* January/February 17(1):8-9.

Young, SL. 2009. Robots for weed control in Eden? *Texas Gardener* Dec. 9
<http://www.texasgardener.com/newsletters/>.

Young, SL, FJ Pierce, JD Streubel and HP Collins. 2009. Performance of solid-state sensors for continuous, real-time measurement of soil CO₂ concentrations. *Agronomy Journal*. 101(6):1417-1420.

Young, SL. 2009. Automated weed control in organic cropping systems. *Weed Science* 57:449-450.

Young, SL and VP Claassen. 2008. Native perennial grasses in highway medians: pre- and post-plant techniques for establishment in a Mediterranean climate. *Invasive Plant Science and Management* 1(4):368-375.

Young, SL 2004. Natural product herbicides for control of annual vegetation along roadsides. *Weed Technology* 18(3):580-587.

Synergistic Activities (selected)

Professional Activities

(Presentation) 2008. New technology for soil carbon mapping, and implications for weed control. Weed Conference. Washington State Weed Association. Yakima, WA.

(Presentation) 2010. A systems approach for non-crop pest control. Weed Science Society of America annual meetings. Denver, CO.

Grants/Contracts

Advances in automation and machine guided systems for cropping systems (Chair). Symposium at the Weed Science Society of America annual meetings. \$5,000 USDA-ARS (2010).

Invasive Plant Species Management with Geospatial Information Technologies and Computational Science (CO-PD). University of Nebraska-Lincoln Strategic Investments Seed Grants Program \$59,946 (2010-2012).