

Tony J. Vyn (Curriculum Vitae)
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Address and contact information:

Department of Agronomy
Purdue University
915 W State Street
West Lafayette, IN 47907-2054

Phone: 765-496-3757
Email: tvyn@purdue.edu
Home page:

<http://www.agry.purdue.edu/staffbio/vyn.htm>

Degrees received:

<u>Degree</u>	<u>University</u>	<u>Month/Year</u>
Ph.D. (Crop Science)	University of Guelph, Ontario, Canada	10/1987
M.Sc. (Crop Science)	University of Guelph, Ontario, Canada	05/1978
B.Sc. (Agric.)	University of Guelph, Ontario, Canada	05/1976

Professional Experience:

2002-present Professor and Cropping Systems Extension Agronomist, Purdue University

1998-2002 Associate Professor, Agronomy Department, Purdue University
1998-2001 Adjunct Professor, Plant Agriculture, University of Guelph
1998 Professor, Cropping Systems, Plant Agriculture Department, Univ. of Guelph,
1991-98 Associate Professor, Crop Science Department, University of Guelph
1987-91 Assistant Professor, Cropping Systems, University of Guelph
1984-87 Assistant Professor (contract), Crop Science, University of Guelph
1980-84 Lecturer, Departments of Crop Science and Land Resource Science (50:50),
University of Guelph, Guelph, ON, Canada, N1G 2W1
1978-80 Research Associate, Crop Science Department, University of Guelph

Honors and Awards:

- * Fellow, Organization for Economic Cooperation and Development (OECD) for a research project in Western Australia during sabbatical leave in 2005
- * Fellow, American Society of Agronomy (ASA), 2003
- * Scientific Society Invited Presentations: Six invited presentations to Annual Meetings of ASA (to S-3 in 1993, to C-2 in 2000, to A-9 and S-4 in 2002, to C-3 and S-4 in 2007), plus 3 invited lectures to NC Regional ASA Meetings in 2001, 2004, and 2007.
- * Invited Speaker to agricultural conferences in 10 U.S. states, 5 Canadian provinces, and several countries overseas (Argentina, Australia, Brazil, Hungary).

Membership in Honorary Academic Societies:

Sigma Xi, Gamma Sigma Delta

Membership in Professional Societies:

Council of Agricultural Science and Technology (CAST Board of Directors representing ASA for 2008 to 2011)
American Society of Agronomy (ASA) (1979-present), Fellow (2003)
Crop Science Society of America
Soil Science Society of America
International Soil Tillage Research Organization (1979-present)
Soil and Water Conservation Society
Purdue Cooperative Extension Specialists Association (1998 to present)

Service to Science and Professional Societies:

1. Associate Editor for Soil & Tillage Research Journal (1989-1994, 2006- present)
2. Senior Associate Editor (07-2008 to present) and Associate Editor (2007-2008) for Agronomy Journal
3. Associate Editor of Crop Science (2002-2005)
4. Review Team for Agronomy Journal (2006-2007)
5. Co-Chair (2003 to present, except for sabbatical in 2005) of the Indiana Certified Crop Advisor (CCA) Planning Committee for the 2-day annual conference held in Indianapolis (attended by over 600 crop advisors from Indiana and surrounding states).
6. North-Central American Society of Agronomy Executive Board (Secretary-Treasurer 2006-2007; Vice-President 2007-2008; President 2008-2009).
7. Member, Board of Directors (ASA representative) for Council of Agricultural Science and Technology
8. Occasional Reviewer (1987 to present) of peer-reviewed manuscripts submitted to Global Change Biology, Crop Science, Journal of Food and Agricultural Chemistry, Agronomy Journal, Soil Science Society of America Journal, Journal of Soil and Water Conservation, Canadian Journal of Plant Science, Canadian Journal of Soil Science, Soil & Tillage Research, Weed Technology, Field Crops Research, and Crop Management.
9. Research Proposal Review Panels like USDA-NRI and NASA (2004) and National Sciences and Engineering Research Council (Canada).
10. Expert Committees for research reviews in crop physiology, soil fertility and cropping systems in United States and Canada.
11. Agronomy Department Representative to Purdue University Cooperative Extension Service Association (2000-2002?)

Graduate Student Training:

- * Served as the major advisor for 28 graduate students (4 Ph.D. and 24 M.S.) from 1987 to 2008. Currently advises 2 graduate students (1 M.S. and 1 Ph.D.) and serves as advisory committee member to graduate students in multiple departments.
- * Mentored 2 postdoctoral students and one visiting scientist in past 3 years.

Teaching Experience at the University of Guelph (1978 to 1998):

Taught over 800 students at the diploma, undergraduate, and graduate levels. There was no teaching appointment, but a major extension appointment, at Purdue University from 1998-2007.

<u>Undergraduate Course Teaching</u>	<u>Credits</u>	<u>Years</u>
29-422 Cropping Systems	4	(1986-1998)
29-423 Cropping Systems II	4	1984
290434 Selected Topics in Crop Science	2	(1985-94)
01-103 The Agriculture and Food System	2	(1978-84 Tutorial Leader)
<u>Graduate Course Teaching</u>		
29-623 Colloquium in Crop Physiology/Man.	2	(1989-1997)
<u>Diploma Course Teaching</u>		
29-022 Grain Crop Production	3	(1979-85)

Teaching Experience at Purdue University

Graduate Course. AGRY 598C Cropping Systems Research (2-3 credits, first taught in 2008 and likely to be taught biannually)
Graduate Course AGRY 696 Graduate Seminar (2009)

Leadership in the Agronomy Department at Purdue University

Chair, Soybean Extension Position Search Committee (2007- 2009)
Chair, Potassium Research Advisory Committee (K-Team comprised of soil fertility researchers and industry Graduate Student Fellowship supporters) from 2007 to 2009.
Extension Coordinator for Extension Faculty in Agronomy (Jan. 2003 to Aug. 2005)
Chair, Crop Science Group for Department's CSREES Review in 2002.
Participant in Awards Committee (2006-2008),
ACRE Research Station Advisory Committee,
Graduate Committee (2000-2005), and
Department Head Advisory Committee (2002-2005)

Service to Purdue University:

Student Appeals Committee
Faculty Appeals Committee
Faculty Mentoring Committee in Botany and Plant Pathology (2003-2007)
College of Agriculture Dean's Advisory Committee
Search Committee for Director of Purdue Agricultural Centers (2000?)
Faculty Search Committee for Agricultural Systems Management Position in Agricultural and Biological Engineering (2008-2009)

Professional Publications:

Author or co-author of over 63 refereed manuscripts and over 200 abstracts and conference proceedings in the general areas of conservation tillage, cropping systems, soil quality (including carbon and nitrogen sequestration), nutrient management, crop physiology, and pest management interactions with tillage systems. Scientific conferences attended since 1976 in Argentina, Australia, Brazil, Canada, Denmark, England, Germany, Hungary, Scotland, The Netherlands, and United States.

Refereed Journal Articles in the past Six Years (* refers to corresponding author):

1. Griffin, T.W., C.L. Dobbins, **T.J. Vyn**, R.J.G.M. Florax, J.M. Lowenberg-DeBoer. 2008. Spatial analysis of yield monitor data: case studies of on-farm trials and farm management decision making. [Precision Agriculture](#) DOI 10.1007/s11119-008-9072-2.
2. Boomsma, C.R., and **T.J. Vyn***. 2008. Maize drought tolerance: Potential improvements through arbuscular mycorrhizal symbiosis? [Field Crops Research](#) 108:14-31.
3. Creech, J. E., A. Westphal, V. R. Ferris, J. Faghihi, **T. J. Vyn**, J. B. Santini, and W. G. Johnson*. 2008. Influence of winter annual weed management and crop rotation

- on soybean cyst nematode (*Heterodera glycines*) and winter annual weeds. [Weed Sci. 56:103-111.](#)
4. M. Gonzalo, **T. J. Vyn**, J. B. Holland & L. M. McIntyre. 2007. Mapping reciprocal effects and interactions with plant density stress in *Zea mays* L. *Heredity* 99: 14-30.
 5. Gál, A., **T.J. Vyn***, E. Michéli, E.J. Kladvko, and W.W. McFee. 2007. Soil carbon and nitrogen accumulation with long-term no-till versus moldboard plowing overestimated with tilled-zone sampling depths. [Soil Tillage Research](#). 96:42-51.
 6. Omonode, R.A., **T.J. Vyn***, D.R. Smith, P. Hegymegi, and A. Gal. 2007. Soil carbon dioxide and methane fluxes from long-term tillage systems in continuous corn and corn-soybean rotations. [Soil and Tillage Research](#). 95:182-195.
 7. Omonode, R. A., and **T.J. Vyn***. 2006. Vertical distribution of soil organic carbon and nitrogen under warm-season native grasses relative to croplands. [Agriculture, Ecosystems & Environment Vol. 17 \(issues 2-3\):159-170.](#)
 8. Janovicek, K. J., W. Deen, **T. J. Vyn**. 2006. Soybean response to zone tillage, twin-row planting, and row spacing. [Agron. J. 98:800:807.](#)
 9. Gonzalo, M., J. Holland, **T. Vyn** and L. McIntyre. 2006. Mapping density response in maize: a direct approach for testing genotype and treatment interactions. [Genetics 105:045757](#)
 10. Omonode, R.A., A. Gál, D.E. Stott, T.S. Abney and **T.J. Vyn***. 2006. Short-term versus continuous chisel and no-till effects on soil carbon and nitrogen. [Soil Sci. Soc. Am. J. 70:419-425.](#)
 11. Omonode, R.A., and **T.J. Vyn***. 2006. Spatial dependence and relationships of electrical conductivity to soil organic matter, phosphorus and potassium. [Soil Sci. 171\(3\):223-238.](#)
 12. Yin, X., and **T.J. Vyn***. 2005. Relationships of isoflavone, oil, and protein in seed with yield of soybean. [Agron. J. 97:1314-1321.](#)
 13. Yin, X. and **T.J. Vyn***. 2004. Critical leaf potassium concentrations for yield and seed quality of conservation-till soybean. [Soil Sci. Soc. Am. J. 68:1626-1634.](#)
 14. Yin, X. and **T.J. Vyn***. 2004. Residual effects of potassium placement in conservation-till corn on subsequent no-till soybean. [Soil & Tillage Research Journal 75:151-159.](#)
 15. Yin, X., and **T. J. Vyn***. 2003. Previous corn row effects on potassium nutrition and yield of subsequent no-till soybean. [J. Plant Nutrition 26 \(7\):1383-1402.](#)
 16. Drury, C.F., C.S. Tan, W.D. Reynolds, T.W. Welacky, S.E. Weaver, A.S. Hammill, and **T.J. Vyn**. 2003. Impacts of zone tillage and red clover on corn performance and soil physical quality. [Soil Sci. Soc. Am. J. 67: 867-877.](#)

17. Yin, X.H., and **T.J. Vyn***. 2003. Potassium placement effects on yield and seed composition of no-till soybean seeded in alternate row widths. [Agron. J. 95:126-132.](#)
18. **Vyn, T.J.***, and D.C. Hooker. 2002. Assessment of multiple- and single-factor stress impacts on corn. [Field Crops Res. 75:123-137.](#)
19. **Vyn, T.J.***, X. Yin, T.W. Bruulsema, C.C Jackson, I. Rajcan, and S.M. Brouder. 2002. Potassium fertilization effects on isoflavone concentrations in soybean [Glycine max (L.) Merr.]. [J. Agric. Food Chem. 50:3501-3506.](#)
20. Yin, X., and **T.J. Vyn***. 2002. Residual effects of potassium placement and tillage systems for corn on subsequent no-till soybean. [Agron. J. 94:112-1119.](#)
21. Garcia-Garca, J.A., S. Neumann, **T.J. Vyn** and G.J. Boland. 2002. Influence of crop rotation and tillage on production of apothecia by *Sclerotinia sclerotiorum*. Can. J. Plant Pathology, Volume 24(2): 137-143.
22. Yin, X., and **T. J. Vyn***. 2002. Soybean responses to potassium placement and tillage alternatives following long-term no-till. [Agron. J. 94:1367-74.](#)
23. **Vyn, T.J.***, D.M. Galic and K.J. Janovicek. 2002. Corn response to potassium placement in conservation tillage. [Soil Tillage Res. 67\(2\):159-169.](#)