

**DEPARTMENT OF PLANT AND SOIL SCIENCE
TEXAS TECH UNIVERSITY
LUBBOCK, TX 79409-2122
CURRICULUM VITA**

***Ellen B. Peffley
Professor of Horticulture***

Education:

Ph.D. New Mexico State University. 1985. Agronomy.
M.S. New Mexico State University. 1981. Horticulture.
B.S. New Mexico State University. 1977. Horticulture cum laude.

Professional Experience:

Professor Emerita. Department of Plant and Soil Science. Texas Tech University.
2009.
Full Professor. Department of Plant and Soil Science. Texas Tech University.
2001-2008
Associate Professor with Tenure. Department of Plant and Soil Science.
Texas Tech University. 1993.
Adjunct Faculty Member. Department of Agronomy and Horticulture. New Mexico
State University. 1991.
Assistant Professor. Agronomy, Horticulture, and Entomology. Texas Tech
University. 1986-91.
Visiting Assistant Professor. Agronomy, Horticulture, and Entomology.
Texas Tech University. 1984-86.
Vegetable Quality Assurance Analyst. Asgrow Seed Company. Kalamazoo, MI.
1978-79.
Field Production Representative. Asgrow Seed Company. Gonzales, CA.
1977-78.
NSF Graduate Student Fellowship Panelist. Feb. 2002, 2003, 2004, 2006, 2007,
2008

Sole Proprietorship:

Established From the Garden, market garden and seed company. 2006.

Professional and Honorary Societies:

Professional Organizations:

American Association for the Advancement of Science
American Society for Horticultural Science; Southern Region
Council for Agricultural Science and Technology
GoTexan, Texas Department of Agriculture.
Southern Region American Society for Horticultural Science

Texas State Horticultural Society
 Texas Vegetable Association
 Texas Organic Farmers and Gardeners Association

Honorary Societies:

Gamma Sigma Delta (National Honorary Agricultural Society)
 National Association of Colleges and Teachers of Agriculture
 Pi Alpha Xi (National Honorary Ornamental Horticulture Society)
 Phi Beta Delta (Honor Society for International Scholars)
 Phi Kappa Phi. Honor Society.
 Sigma Xi (National Honorary Research Society)

Civic Organizations:

Calvary Baptist Church Adult Sunday School teacher
 Lubbock Chorale
 Lubbock Memorial Arboretum
 Papalote Home Owners Association
 West Texas Garden and Arts Society
 Volunteer American Diabetes Association
 South Plains Food Bank Advisory Board

Honors and Awards:

Honors:

International Symposium on Horticultural Breeding. Taichung, Taiwan. Invited Speaker. Dec. 1986.
 Allium Eucarpia Symposium. University of Warwick, Coventry, United Kingdom. Invited Speaker. Sep. 1988.
 Netherlands Ministry for Agriculture and Fisheries. Fellowship at the Institute for Horticultural Plant Breeding. Wageningen, The Netherlands. 1988.
 USDA Plant Variety Protection Advisory Board. Washington, DC. (Appointed) 1991.
 USDA Plant Variety Protection Advisory Board. Washington DC. Appeals Subcommittee. (Elected) 1991.
 USDA Plant Variety Protection Panel. 1992.
 Office of Higher Education. Challenge Grant Program Reviewer. 1995-96.
 Vegetable Research Trust. Horticulture Research International Fellowship. Wellesbourne, Warrickshire, United Kingdom. Sep.-Dec. 1997.
 Texas Tech University Teaching Academy. 1998.
 It Is My Job (IIMJ) Society, Office of Dean of Students. 1999.
 Texas Vegetable Association. Board of Directors, 1988-98.
 Texas Vegetable Association. Secretary, 1998-99.
 Texas Vegetable Association. Vice-President. 1999-02.
 Texas Food Technology Information Team. Appointment by Rick Perry, Texas Commissioner of Agriculture) 1996.
 USDA National Watermelon Promotion Board. Appointment by Secretary of Agriculture, Ann Veneman. 2001-06.

NSF Graduate Student Fellowship Panelist. Feb. 2002, 2003, 2004, 2006, 2007
 Distinguished Professor, Mortar Board. 2003.
 Who's Who in Agriculture Higher Education, 2003.
 Scientific Expert for the International Food Information Council Foundation, 2004-10
 American Society for Horticultural Science, Molecular Biology and Biotechnology. Journal of the American Society for Horticultural Science. Consulting Editor. 2004.
 Lowenstein Lecturer. ADVANCE Visiting Professor. New Mexico State University. "What has NMSU done to promote the advancement of women in science?" "How New Mexico State University develops plant and environmental scientists". Apr. 2005.
 NSF Graduate Research Fellowship Program. Feb 2006, 2007, 2008.
 Phi Kappa Phi. Honor Society. 2006.
 Who's Who of Women in Education "Honors Edition", 2006.
 Texas State Seed and Plant Board. Governor Perry appointment. 2006-2007, 2007-2008.
 Who's Who Cambridge Executive and Professional Women in Teaching and Education. 2007
 Proposal reviewer for the Government of the Country of Georgia, Georgian National Science Foundation. 2008, 2009
 Ad Hoc tenure reviewer for Jordan University. 2009.
 South Plains Food Bank Advisory Board. February, 2010.

Awards:

Outstanding Woman in the Agricultural and Home Economics College. New Mexico State University. 1977.
 Who's Who Among Students in American Universities and Colleges. 1977.
 Outstanding Young Woman of America. 1984.
 Outstanding Young Woman of America. 1985.
 Who's Who in American Universities and Colleges. 1996.
 President's Excellence in Teaching. Texas Tech University. 1997.
 Teaching Award of Merit. National Association of Colleges and Teachers of Agriculture. 1997.
 Best Pair O'Docs at Texas Tech University. Texas Tech Ex-Students Association. 1998.
 Outstanding Faculty Member. Delta Delta Delta. 1998.
 Who's Who in American Universities and Colleges. 1998, 1999, 2000.
 Excellence in Extension Blue Ribbon Award for the Tech Hort Web Site. American Society of Horticultural Science, Southern Region. 1999.
 Spencer A. Wells Faculty Award. Nomination. 1999, 2003, 2004
 Spencer A. Wells Faculty Award. 2005.
 Recipient of The Teaching Academy Departmental Excellence in Teaching Award. 2000.
 L. M. Ware Distinguished Teaching Award for Distinguished Teaching Career. Southern Region American Society for Horticulture Science. 2001.

L. C. Chadwick Educator's Award. American Nursery and Landscape Association. 2002.

Who's Who Among America's Teachers. 2002, 2004, 2005, 2006.

Gamma Sigma Delta Outstanding Service to Agriculture. 2003.

College of Agricultural Science and Natural Resources Teaching Award. 2005.

Chancellor's Distinguished Teaching Award. 2005

2008 Outstanding Education Paper American Society for Horticulture Science,

"Comparing Student Performance in Live Versus Web-based Instruction in Herbaceous Plant Identification" Igino Teolis, Ellen B. Peffley, David Wester. July 21, 2008.

Patents:

1. Peffley, Ellen P., Allen, R., Song, P., Shang, X. 2003. Direct transformation of higher plants through pollen tube pathway. US patent #6,583,335.

Trademarks:

1. Peffley, Ellen B., 'Lady Raider' onion, 2011
2. Peffley, Ellen B., 'Red Raider' onion, 2011
3. Peffley, Ellen B., 'Butter Raider' onion, 2011
4. Peffley, Ellen B., 'Bashful Raider' onion, 2011
5. Peffley, Ellen B., 'Moon Raider' onion, 2011

Principal Research Interests:

Cytogenetics, plant breeding, molecular marker assisted selection for crop improvement, plant tissue culture, hydroponic strategies for vegetables, organic growing practices strategies

Germplasm Releases (Career Total of 3):

1. Corgan, J. N. and E. B. Peffley. 1986. Interspecific F₁ diploids *Allium fistulosum* x *A. cepa* (10 hybrids) and *Allium cepa* x *A. fistulosum* (hybrid). New Mexico Agricultural Experiment Station. Sep.
2. Peffley, E. B. 2005. PVP 200400235 Matador. *Cyamopsis tetragonoloba* (L.) Taub. Texas Tech University and Halliburton Energy Services, Inc. Apr.
3. Peffley, E. B. 2005. PVP 200400301. Monument. *Cyamopsis tetragonoloba* (L.) Taub. Texas Tech University and Halliburton Energy Services, Inc. Apr. 2.

Trademarks Pending:

1. 2010. 'Lady Raider'TM, 'Red Raider'TM, 'Butter' Raider'TM, 'Bashful Raider'TM, 'Moon Raider'TM onion cultivars.

Books and Book Chapters (Career Total of 10):

1. Peffley, E. B. 1987. Interspecific hybridization in *Allium*. In: The Breeding of Horticultural Crops. Food and Fertilizer Technology Center for the Asian and Pacific Region Book Series No. 35. Taipei, Taiwan.

2. Peffley, E. B. 1992. Micropropagation of *Allium fistulosum* L. and its hybrid derivatives. *In: Biotechnology in Agriculture and Forestry*. High-Tech and Micropropagation III. Y. P. S. Bajaj (ed.). Springer-Verlag, Berlin, NY. 19:244-261.
3. Peffley, E. and J. Wilmington. 1995. *In: Principles of Horticulture*. A laboratory manual.
4. Schwartz, H. F. and E. B. Peffley. 1995. Temperature stress. *In: Onion Disease Compendium*. H. F. S. Schwartz and S. K. Mohan (eds.) American Phytophysiological Society. St. Paul, MN. p. 44.
5. Peffley, E. B., C. B. McKenney, and R. E. Durham. 1998. *In: Principles of Horticulture*. Distance Learning. Texas Tech University. Lubbock, TX. 127p.
6. Peffley, E. B., R. E. Durham, and C. B. McKenney. 1999. Introductory Horticulture. Kendall Hunt Publishing Company. ISBN 0-7872-6218-8.
7. Peffley, E. B., R. E. Durham, and C. B. McKenney. 2002. Introductory Horticulture. Kendall Hunt Publishing Company. 2nd Edition. ISBN 0-7872-6218-8.
8. Peffley, E. B., R. E. Durham, C. B. McKenney, and J. Wilmington. 2003. Introductory Horticulture. Kendall Hunt Publishing Company. 2nd Edition, 2nd printing. ISBN 0-7872-6218-8.
9. Peffley, E. B. 6 Genome Complexity of Allium". 2006. *Plant Genome: Biodiversity and Evolution Volume D: Phanerogams (Gymnosperm and Angiosperm – Monocotyledons. Ch 5. pp 111-130.*
10. Peffley, E. B., R. E. Durham, C. B. McKenney, and J. Wilmington. 2007. Introductory Horticulture. Kendall Hunt Publishing Company. 3rd Edition. ISBN 0-7872-6218-8.

Refereed Publications (Career Total of 35):

1. Peffley, E. B., M. Ortiz, and J. N. Corgan. 1981. A technique for onion cold hardiness evaluation: Effects of plant age and size on hardiness. *HortScience* 16(6):773-774.
2. Peffley, E. B., J. N. Corgan, K. E. Horak, and S. D. Tanksley. 1985. Electrophoretic analysis of *Allium* alien addition lines. *Theoretical and Applied Genetics* 71:176-184.

3. Peffley, E. B. 1986. Evidence for chromosomal differentiation of *Allium fistulosum* and *A. cepa*. J. American Society of Horticultural Science 111(1):126-129.
4. Peffley, E. B. and C. Orozco-Castillo. 1987. Polymorphism of isozymes in plant introductions of *Allium cepa* L. and *A. fistulosum* L. HortScience 22(5):956-957.
5. Peffley, E. B. and L. Currah. 1988. Chromosomal locations of two enzyme-coding genes in *Allium fistulosum* L. Theoretical and Applied Genetics 75:945-949.
6. Lu, C., L. Currah, and E. B. Peffley. 1989. Somatic embryogenesis and plant regeneration in *Allium fistulosum* x *A. cepa* interspecific F₁ hybrids. Plant Cell Reports 7:696-700.
7. Peffley, E. B. and P. D. Mangum. 1990. Introgression of *Allium fistulosum* L. into *Allium cepa* L.: Cytogenetic evidence. Theoretical and Applied Genetics 79:113-118.
8. Green, W. M. and E. B. Peffley. 1992. Effects of tractor traffic and soil moisture tension on yield of Norgold Russet potatoes. Texas J. Agriculture and Natural Resources 5:21-26.
9. Ricroch, A., E. B. Peffley, and R. J. Baker. 1992. Chromosomal location of rDNA in *Allium*: In situ hybridization with biotin and fluorescein-labeled probe. Theoretical and Applied Genetics 83:413-418.
10. Peffley, E. B. and J. N. deVries. 1993. Giemsa G-banding in *Allium*. Biotechnique and Histochemistry 68(2):83-86.
11. Mangum, P. D. and E. B. Peffley. 1994. Inheritance of ADH, 6-PGDH, PGM, and SKDH in *Allium fistulosum* L. J. American Society of Horticultural Science 119(2):335-338.
12. Song, P. and E. B. Peffley. 1994. Plant regeneration from suspension cultures of *Allium fistulosum* and *A. fistulosum* x *A. cepa* hybrids. Plant Science 98:63-68.
13. Macharia, C. and E. B. Peffley. 1995. Suppression of *Amaranthus spinosus* and *Kochia scoparia* by *Allium fistulosum*. Crop Protection 14(2):155-159.
14. Song, P., W. H. Kang, and E. B. Peffley. 1997. Doubling of chromosome numbers of *Allium cepa* x *A. fistulosum* interspecific hybrids through *in vitro* colchicine treatment. Euphytica 93:257-262.
15. Wettasinghe, R. and E. B. Peffley. 1998. A rapid and efficient extraction method for onion DNA. Plant Breeding 117 (6):588-589.

16. Hou, A. and E. B. Peffley. 2000. Recombinant chromosomes of advanced backcross plants between *A. cepa* and *A. fistulosum* L. revealed by in situ hybridization. *Theoretical and Applied Genetics* 100 (8):1190-1196.
17. Peffley, E. B. and A. Hou. 2000. Bulb-type onion introgressants possessing *Allium fistulosum* L. genes recovered from interspecific hybrid backcrosses between *A. cepa* L. x *A. fistulosum* L. *Theoretical and Applied Genetics* 3:528-534.
18. Hou, A., E. Geoffriau, and E. B. Peffley. 2001. Esterase isozymes are useful to track introgression between *Allium fistulosum* L. and *A. cepa* L. *Euphytica* 122: (1):1-8.
19. Peffley, E. B., P. D. Mangum, and J. Burke. 2001. Response of isozymes in *Allium* to thermal and abiotic stress. *Texas Journal of Agriculture and Natural Resources* 14: 91-95.
20. Lombard, K. A., E. Geoffriau, and E. B. Peffley. 2002. Flavonoid quantification in onion by spectrophotometric and high performance liquid chromatography analysis. *HortScience*. 37(4):682-685.
21. Smith, C. and E. B. Peffley. 2003. Genetic analysis of quercetin in the 'Lady Raider' onion (*Allium cepa* L. 'Lady Raider'). *Texas Journal of Agriculture and Natural Resources*. 13: 24-28.
22. Jasoni, R., C. D. Kane, C. Green, E. B. Peffley, D. Tissue, L. Thompson, and P. W. Pare. 2004. Altered VOC emissions from onion grown in a closed system. *Environmental and Experimental Botany* 51:273-280.
23. Lombard, K., E. Geoffriau, and E. B. Peffley. 2004. Total quercetin content in onion: Survey of cultivars grown at different locations. *HortTechnology* 14(4):628-630.
24. Taraban, R., C. McKenney, E. B. Peffley, and A. Applegarth. 2004. Live specimens more effective than World Wide Web for learning plant material. *Journal of Natural Resources and Life Sciences Education* 33:106-110.
25. Kane, C., C. J. Green, E. Peffley, R. Jasoni, L. Thompson, D. Tissue, and P. Pare. 2005. Influence of nutrient solution and solution pH on onion growth and mineral content. *J. Plant Nutr.* Accepted.
26. Lombard, K. A., E. Geoffriau, E. B. Peffley, L. Thompson, and A. Herring. 2005. Quercetin in onion (*Allium cepa* L.) after heat treatment simulating home preparation. *Journal of Food Composition and Analysis*.18:571-581.

27. Mangum, P. D. and E. B. Peffley. 2005. Central cell nuclear-cytoplasmic incongruity; a mechanism for segregation distortion in advanced backcross and selfed generations of (*Allium cepa* L. X *Allium fistulosum* L.) X *A. cepa* interspecific hybrid derivatives. *Cytogenetic and Genome Research. Plant Cytogenetics* 109 (1-3): 400-407.
28. McKenney C. B., E. B. Peffley, and G. Teolis. 2005. A comparison of asynchronous communication levels with students enrolled in compressed video, internet and traditional classes. *Acta Horticulturae. (ISHS)* 641:79-84. Available at http://www.actahort.org/books/641/641_10.htm
29. Peffley, E. B. and C. S. Davis. 2005. Next Generation of Scientists is inspired at an early age. *Society of Automotive Engineers.05ICES-325*.
30. Thompson, L. D., J. Morris, E. B. Peffley, C. Green, P. Pare, D. Tissue, J. Hutson, J. Johnson, B. Wehner and C. Kane. 2005. Flavonol content and composition of spring onions (*Allium cepa* L.) grown in hydroponics in a greenhouse. *J. Food Comp and Analysis* 18:635-645.
31. McKenney, C. B., E. B. Peffley and I. Teolis. 2004. A comparison of asynchronous communication levels with students enrolled in compressed video, http://www.actahort.org/books/641/641_10.htm.
32. van Gestel, N.C., A.D. Nesbit, E.P. Gordon, C. Green, P.W. Pare, L. Thompson, E.B. Peffley and D.T. Tissue. 2005. Continuous light may induce photosynthetic down-regulation in onion – consequences for growth and biomass partitioning. *Physiologia Plantarum* 125:235-246.
33. Liu, W., E. B. Peffley, D. Auld, and R. Powell. 2006. Inheritance of basal branching in guar. (*Cyamopsis tetragonoloba* (L.) Taub.). *Euphytica* 151:303-309
34. Liu, Weixin, Ellen B. Peffley, Ron J. Powell, Dick L. Auld, Anfu Hou. 2007. Association of seedcoat color with seed water uptake, germination, and seed components in guar (*Cyamopsis tetragonoloba* (L.) Taub) *Journal of Arid Environments* 70 29–38
35. Teolis, Igino, Ellen B. Peffley, and David B. Wester. 2007. Comparing Student Performance in Live Versus Web-based Instruction in Herbaceous Plant Identification. *HortTechnology* Vol.17 (1): 120-124
36. Teolis, I., W. Liu, E. B. Peffley. 2009. Salinity Effects on Seed Germination of Guar. *Crop Science. In Press*.

37. McKenney, Cynthia B., Ellen B. Peffley, and Igino Teolis. 2010. Comparison of Time Investment in Common Teaching Practices among Three Instructional Methods. *HortTechnology* 20: 245-249

Electronic Media (Career Total of 3):

Refereed:

1. Peffley, E. B., R. E. Durham, and C. B. McKenney. 1998. TechHort: Horticulture in Motion. USDA Challenge Program. Washington, DC. (CD-Rom)
2. Peffley, E. B., R. E. Durham, and C. B. McKenney. 1999. A Companion CD to Principles of Horticulture. Texas Tech University. Lubbock, TX. (CD-Rom)
3. Morrow, J., R. Allen, E. B. Peffley. 2001. Introduction to Biotechnology. Creative Education Video.

Technical Publications/Popular Articles (Career Total of 99)

1. Peffley, E. B. 1976. A summer vegetable gardening program. *New Mexico Gardener* 16(4):11.
2. Peffley, E. B. 1978. Gardening for food and fun with senior citizens. *Agricultural Education* 50(10):228-229.
3. Peffley, E. B. 1989. Biotechnology. *Texas Nurseryman*. Jun. p. 15, 44.
4. Peffley, E. B. 1989. Tissue culture brings a new dimension to agribusiness. *Texas Nurseryman*. Jul/Aug. p. 69-71.
5. Peffley, E. B. 1990. Onion future strengthened with biotechnology. *Texas Vegetable Association Ltr.* IV (1):5.
6. Roxas, V. P. and E. B. Peffley. 1993. Short-day onion varietal identification using molecular (RAPD) markers. *Allium Newsletter* 2:15-17.
7. Peffley, E. B. 1994. Onion research, Texas--1993. Biennial Report of Vegetables Research in the Southern United States and Puerto Rico. USDA/ARS, Charleston, SC. p. 53-54.
8. Peffley, E. B., P. D. Mangum, and J. D. Burke. 1994. Response of isozymes in *Allium* to stress. *Allium Newsletter* 3:17-19.
9. Wettasinghe, R. and E. B. Peffley. 1995. Investigation of polymerases and genomic extraction protocols for RAPD markers in onion. *Allium Newsletter* 4:4-5.

10. Hou, A. and E. B. Peffley. 1996. Genomic *in situ* hybridization in onion. *Allium Newsletter* 5: 17-19.
11. Peffley, E. B., M. Hart, T. Wheeler, Z. Xiang, Z. Hiang, S. El-Sharif, and G. E. Phillips. 1996. Progress towards a transformation system for onion via particle bombardment. *Allium Newsletter* 5:14-16.
12. Peffley, E. B. 1997. *Allium cepa* pollen grain. *J. Irreproducible Results* 42(3):27.
13. Robbins, S., Z. Xiang, and E. B. Peffley. 1997. Transient expression of green protein in *Allium*. *Allium Newsletter* 6:8-10.
14. Hou, Anfu, J. N. Corgan, and E. B. Peffley. 1998. Some characters of an F1BC3 population derived from *A. cepa* L. x *A. fistulosum* L. *Allium Newsletter* 7:10-12.
15. Peffley, E. B. 1998. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.
16. Peffley, E. B. 1998. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
17. Peffley, E. B. 1998. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
18. Hou, A. and E. Peffley. 1999. Analyses of Recombinant *Allium cepa* x *A. fistulosum* backcross individuals. National Onion (and other Alliums) Research Conference.
19. Peffley, E. B., and L. Trueman. 1999. Microsatellites in leek. *Allium Improvement Newsletter* 8:4-5.
20. Peffley, E. B., A. Hou, and L. Trueman. 1999. Polymorphism in *Allium* species revealed by Simple Sequence repeats. National Onion (and other *Allium*) Research Conference.
21. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan.
22. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Feb.
23. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar.
24. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Apr.

25. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. May.
26. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Jun.
27. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.
28. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.
29. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
30. Peffley, E. B. 1999. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
31. Lombard, K. A., E. B. Peffley, L. Thompson, and E. Geoffriau. 2000. Quantification of quercetin in onion (*Allium cepa* L.) after thermal processing. Allium Improvement Newsletter. Volume 9.
32. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan.
33. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Feb.
34. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar.
35. Peffley, E. B. 2000. How to Grow the Best Tomatoes in West Texas. Lubbock Home and Family. Mar.
36. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Apr.
37. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. May.
38. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Jun.
39. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.

40. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.
41. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
42. Peffley, E. B. 2000. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
43. Lombard, K. A., E. Peffley, L. Thompson, and E. Geoffriau. 2001. Quantification of quercetin in onion (*Allium cepa*) after thermal processing. The Allium Newsletter. Volume 9:35-38.
44. Peffley, E. B., T. A. Wheeler, J. Gannaway. 2001. A strategy to develop disease resistant transgenic cotton plants. Cotton Incorporated Summary Report Agriculture Research 99-654. pp 141-142.
45. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan.
46. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Feb.
47. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar.
48. Peffley, E. B. 2001. How to Grow the Best Tomatoes in West Texas. Lubbock Home and Family. Mar.
49. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Apr.
50. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. May.
51. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Jun.
52. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.
53. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.

54. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
55. Peffley, E. B. 2001. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
56. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan.
57. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Feb.
58. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar.
59. Peffley, E. B. 2002. How to Grow the Best Tomatoes in West Texas. Lubbock Home and Family. Mar.
60. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Apr.
61. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. May.
62. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Jun.
63. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.
64. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.
65. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
66. Peffley, E. B. 2002. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
67. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan.
68. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Feb.

69. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar.
70. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Apr.
71. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. May.
72. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Jun.
73. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.
74. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep.
75. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Oct.
76. Peffley, E. B. 2003. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
77. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan/Feb.
78. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar/Apr.
79. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. May/Jun.
80. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. Jul/Aug.
81. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. Sep/Oct.
82. Peffley, E. B. 2004. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
83. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan/Feb.

84. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar/Apr.
85. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. May/June.
86. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. July/Aug.
87. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. Sept/Oct.
88. Peffley, E. B. 2005. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
89. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan/Feb.
90. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar/Apr.
91. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. May/June.
92. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. July/Aug.
93. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. Sept/Oct.
94. Peffley, E.B. 2006. Northwest Texas Column. Neil Sperry's Garden Magazine. Nov/Dec.
95. Peffley, E.B. 2007. Northwest Texas Column. Neil Sperry's Garden Magazine. Jan/Feb.
96. Peffley, E.B. 2007. Northwest Texas Column. Neil Sperry's Garden Magazine. Mar/Apr.
97. Peffley, E.B. 2007. Northwest Texas Column. Neil Sperry's Garden Magazine. May/June.
98. Peffley, E.B. 2007. Northwest Texas Column. Neil Sperry's Garden Magazine. July/August.

99. Peffley, E.B. 2007. Northwest Texas Column. Neil Sperry's Garden Magazine. November/December.

Abstracts and Proceedings (Career Total of 82):

1. Peffley, E. B., M. Ortiz, and J. N. Corgan. 1980. Onion seedling cold hardiness as affected by plant age and size. HortScience 15:77.
2. Horak, K. E., E. B. Peffley, and J. N. Corgan. 1983. Cytogenetic analysis of a triploid interspecific onion hybrid and its progeny. HortScience 18:597.
3. Peffley, E. B. and S. D. Tanksley. 1983. Segregation of electrophoretic gene markers in the progeny of a triploid interspecific onion hybrid. HortScience 18:597.
4. Peffley, E. B. 1985. Chromosomal differentiation between *Allium cepa* and *A. fistulosum*. Proc. American Society of Horticultural Science Annual Meeting.
5. Currah, L. and E. B. Peffley. 1987. Chromosomal locations of alcohol dehydrogenase and phosphoglucumutase isozymes in trisomic onions. HortScience 22(5):1075.
6. Currah, L. and E. B. Peffley. 1987. Chromosomal locations of enzyme cooling genes. Proc. American Society of Horticultural Science Annual Meeting.
7. Lu, C., J. Brown, and E. B. Peffley. 1987. Nuclear magnetic resonance microscopy of green onion callus. Proc. International Symposium on Horticultural Breeding. Food and Fertilizer Technology Center for the Asian and Pacific Region Book Series No. 35. Taipei, Taiwan.
8. Lu, C., L. Currah, and E. B. Peffley. 1987. Callus induction, proliferation, and embryogenesis in interspecific *Allium* hybrids. HortScience 22(5):1131.
9. Lu, C., L. Currah, and E. B. Peffley. 1987. Callus induction, proliferation, and organogenesis in *Allium*. Proc. International Symposium on Horticultural Breeding. Food and Fertilizer Technology Center for the Asian and Pacific Region Book Series No. 35. Taipei, Taiwan.
10. Lu, C. and E. B. Peffley. 1987. In vitro parthenocarpic seed production from immature inflorescences of 'Beltsville Bunching' onion. Proc. International Symposium on Horticultural Breeding. Taipei, Taiwan.
11. Lu, C. and E. B. Peffley. 1987. In vitro seed production from immature inflorescences of 'Beltsville Bunching' onion. HortScience 22(5):1072.
12. Currah, L., C. Orozco, and E. B. Peffley. 1988. Onion breeding at Texas Tech University. Proc. Eucarpia Symposium. University of Warwick, UK.

13. Currah, L. and E. B. Peffley. 1988. Genomic localization of isozyme loci in *Allium fistulosum*. Proc. 4th *Allium* Eucarpia Symposium. Wellsbourne, Warwick, United Kingdom.
14. Closs, T. J. and E. B. Peffley. 1989. Micropropagation of *Leucophyllum candidum* 'Silver Cloud.' Proc. 86th American Society of Horticultural Science Annual Meeting.
15. Green, W. M. and E. B. Peffley. 1989. The effects of soil compaction and soil water on the yield of Norgold Russet potatoes. Proc. 86th American Society of Horticultural Science Annual Meeting.
16. Guan, G. and E. B. Peffley. 1989. Megaspore culture of interspecific (*Allium cepa* x *A. fistulosum*) hyperploid onions. Proc. 86th American Society of Horticultural Science Annual Meeting.
17. Ou, G. and E. B. Peffley. 1989. Establishment of suspension culture in onions. Proc. 86th American Society of Horticultural Science Annual Meeting.
18. Peffley, E. B. 1989. Cytogenetic and electrophoretic evidence for recombination between *Allium* genomes. Proc. National Onion Research Conference. p. 52-63.
19. Macharia, C. and E. B. Peffley. 1990. Allelopathic control of *Amaranthus* spp. by *Allium* spp. Proc. 87th American Society for Horticultural Science Meeting.
20. Macharia, C. and E. B. Peffley. 1990. Allelopathic control of *Amaranthus* spp. by *Allium* spp. Proc. American Association for the Advancement of Science, Southwestern Region Annual Meeting.
21. Mangum, P. D. and E. B. Peffley. 1990. Inheritance of PGM-1 and ADH-1 in *Allium fistulosum* L. Proc. American Association for the Advancement of Science, Southwestern Region Annual Meeting.
22. Peffley, E. B. and P. D. Mangum. 1990. Micropropagation of *Allium fistulosum* L. Proc. American Association for the Advancement of Science, Southwestern Region Annual Meeting.
23. Ricroch, A., E. B. Peffley, and R. J. Baker. 1990. Chromosomal location of biotin- and fluorescein-labeled DNA by in situ hybridization in *Allium*. Proc. 87th American Society for Horticultural Science Meeting.
24. Mangum, P. D., Q. Hong, and E. B. Peffley. 1991. ADH-1 stress responses in *Allium fistulosum* L. Proc. American Association for the Advancement of Science, Southwestern Region Annual Meeting.

25. Song, P. and E. B. Peffley. 1991. Effects of callus age and hormones on cell suspension cultures of onion. Proc. American Association for the Advancement of Science, Southwestern Region Annual Meeting.
26. Mangum, P. D. and E. B. Peffley. 1992. Inheritance of ADH, 6-PGDH, PGM, and SKDH in *Allium fistulosum* L. Proc. 89th American Society for Horticultural Science Annual Meeting.
27. Song, P. and E. B. Peffley. 1992. Effects of callus age, genotype, and plant growth regulators on plant regeneration from onion suspension cultures. Proc. 89th American Society for Horticultural Science Annual Meeting.
28. Mangum, P. D. and E. B. Peffley. 1993. Description of new loci in onion isozymes. Proc. 90th Southern Association of Agricultural Scientists Annual Meeting.
29. Peffley, E. B. 1993. Short-day onion varietal identification using molecular (RAPD) markers. Proc. American Society for Horticultural Science, Southern Region.
30. Roxas, V. P. and E. B. Peffley. 1993. Use of random amplified polymorphic DNA (RAPD) markers for onion cultivar identification. Proc. 90th Southern Association of Agricultural Scientists Annual Meeting.
31. Roxas, V. P. and E. B. Peffley. 1993. Use of random amplified polymorphic DNA varieties (RAPD) to distinguish short-day grano-type onion varieties. Proc. 90th American Society for Horticultural Science Meeting.
32. Song, P., W. Kang, and E. B. Peffley. 1993. Changes in chromosome number of *Allium cepa* x *A. fistulosum* interspecific hybrids through colchicine treatment of regenerating callus. Proc. 90th Southern Association of Agricultural Scientists Annual Meeting.
33. Song, P., W. Kang, and E. B. Peffley. 1993. Chromosome doubling of interspecific F1 hybrids between *Allium fistulosum* x *A. cepa* through colchicine treatment of regenerating callus. Proc. 90th American Society for Horticultural Science Meeting.
34. Peffley, E. B. 1994. Molecular markers in *Allium*: A review. Proc. National Onion Conference. p. 115-120.
35. Peffley, E. B. and D. Drews. 1994. Transgenic squash. Proc. West Texas Vegetable Shippers and Growers Conference.

36. Phillips, G. C., T. A. Wheeler, E. B. Peffley. 1994. A system of direct gene transfer into monocots for disease resistance. Proc. 9th Southwest Consortium on Plant Genetics and Water Resources Symposium.
37. Kallemuchikkal, U. and E. B. Peffley. 1995. Molecular analysis of *Allium*. Proc. American Society for Horticultural Sciences, Southern Region Meeting. p. 127.
38. Peffley, E. B. and M. Hart. 1995. Onion transformation with particle bombardment. Proc. Southern Region American Society for Horticultural Sciences Meeting. p. 127.
39. Peffley, E. B., M. A. Hart, T. A. Wheeler, A. El-Sharif, N. Dong, and G. C. Phillips. 1995. Progress towards transformation of onion, *Allium cepa*, via particle bombardment. Proc. 10th Annual Southwest Consortium on Plant Genetics and Water Resources Symposium. p. 22.
40. Wettasinghe, R. and E. B. Peffley. 1995. Optimizing RAPD markers for onion genomic DNA analysis. HortScience 30(3):435.
41. Wettasinghe, R. and E. B. Peffley. 1995. Optimizing RAPD markers for onion genomic DNA analysis. Proc. American Society for Horticultural Sciences, Southern Region Meeting. p. 127.
42. El-Sharif, A., N. Dong, G. C. Phillips, E. B. Peffley, M. A. Hart, and T. A. Wheeler. 1996. Long-term expression of GUS in putatively transformed cells of onion, *Allium cepa* and *A. fistulosum*, using particle bombardment. Abstract. World Congress on In Vitro Biology.
43. Peffley, E. B., M. A. Hart, T. A. Wheeler, A. El-Sharif, N. Dong, and G. C. Phillips. 1996. Progress towards transformation of onion, *Allium cepa*, via particle bombardment. Abstr. 11th Southwest Consortium on Plant Genetics and Water Resources.
44. Peffley, E. B., M. Hart, Z. Xiang, Z. Hiang, A. El-Sharif, N. Dong, and G. C. Phillips. 1996. Transient expression of GUS in onion transformants. Abstract. American Society for Horticultural Science, Southern Region.
45. Xiang, Z., M. Hart, A. El-Sharif, N. Dong, G. C. Phillips, and E. B. Peffley. 1996. Development of a dominant gene transfer system for onion *Allium cepa* and *A. fistulosum* using particle bombardment. Proc. 11th Southwest Consortium on Plant Genetics and Water Resources. p. 9.
46. Hou, A. and E. B. Peffley. 1997. Use of genomic in situ hybridization (GISH) to track genetic introgression in onion. HortScience 32(3):512.

47. Applegarth, A., E. B. Peffley, R. Taraban, R. E. Durham, C. B. McKenney, and L. McGann. 1998. Web-based learning: A plant science lab case study. Abstract. Visions of the Future--Distance Learning for the 21st Century Conference. Concurrent Sessions H, Article 2.
48. Peffley, E. B. and A. Hou. 1998. Analyses of recombinant *Allium cepa* x *A. fistulosum* backcross individuals. Abstract. National Onion Research Conference. p. 74-78.
49. Peffley, E. B., A. Hou, and L. Trueman. 1998. Polymorphism in *Allium* species revealed by sample sequence repeats. Abstract. National Onion Research Conference. p. 372.
50. Applegarth, A., E. B. Peffley, R. Taraban, R. E. Durham, and C. B. McKenney. 1999. An evaluation of web-based study methods used in a plant science laboratory. Abstract. American Society for Horticulture Science, Southern Region. HortScience 34(5):823.
51. McKenney, C. B., R. E. Durham, and E. B. Peffley. 1999. Offering a horticultural laboratory experience at a distance. Abstract. Hortscience 34(3):519.
52. Lombard, K. A., E. B. Peffley, L. Thompson, E. Geoffriau, and J. Morris. 2000. Quantification of quercetin in onion (*Allium cepa* L.) after domestic processing. HortScience 35(4):567.
53. Mangum, P. and E. B. Peffley. 2000. Analysis of (*Allium cepa* x *A. fistulosum*) x *A. cepa* fourth-generation backcross populations for *A. fistulosum* introgression. HortScience 35(4):568.
54. Neal, M. and E. B. Peffley. 2000. Members of the Family Leporidae can select for onions with high soluble sugars and low pyruvates. HortScience 35(4):550.
55. Peffley, E. B., K. A. Lombard, C. B. McKenney, and R. E. Durham. 2000. Plant propagation methods course development for delivery on the worldwide web. HortScience 35(4):553.
56. Lombard, K. A., E. Peffley, E. Geoffriau, and L. D. Thompson. 2001. Quercetin in onion (*Allium cepa* L.) after thermal processing and comparison of quantification by spectrophotometer and HPLC. Abstract. Alliums 2000 Proceedings. Athens, Georgia. 118-121.
57. Mangum, P. D. and E. B. Peffley. 2001. Incongruity in advanced backcross and selfed generations of (*Allium cepa* L. x *A. fistulosum* L.) x *A. cepa* interspecific hybrids. Abstract. Alliums 2000 Proceedings. Athens, Georgia. 32.35.

58. Peffley, E. B., C. B. McKenney, R. Taraban, and I. Teolis. 2001. A comparison of the performance of students learning plant materials via the worldwide web and traditional instruction. Abstr. American Society for Horticulture Science Southern Region 61st Annual Meeting. HortScience 36(5):839.
59. Teolis, I., E. B. Peffley, and C. B. McKenney. 2001. A study of the effect of a web-based horticulture course on the performance and perceptions of university students. Abstr. American Society for Horticulture Science Southern Region. 61st Annual Meeting. HortScience 36(5):839.
60. Peffley, E. B. 2002. Lessons Learned in an Online Horticulture Course. HortScience 37(5): 741.
61. Teolis, I., E. B. Peffley, and C. McKenney. 2002. Can We Predict Student Success in Online Courses? HortScience 37(5): 741.
62. Teolis, I., E. B. Peffley, C. B. McKenney, and R. Taraban. 2002. Can we predict student success in online instruction? Abstr. American Society for horticultural Science Southern Region 62nd Annual Meeting. HortScience 37(5):737.
63. Johnson, J. B. Wehner, E. Peffley, J. Hutson, C. Kane, J. Morris, R. Jasoni, C. Green, P. Paré, L. Thompson, D. Tissue. 2002. The effects of photoperiod on biochemistry and photosynthesis in onion, *Allium fistulosum*. 2002. HortScience 37(5): 741.
64. Peffley, E. B. and T. A. Wheeler. 2002. Transgenic strategy for wilt and seedling diseases in cotton. Proc. TxCot Annual Meeting. Proc. TxCot Annual Meeting.
65. McKenney, C. B., E. B. Peffley, and I. Teolis. 2002. A comparison of asynchronous communication levels with students enrolled in compressed video, web-based, and traditional classes. Abstr. Program of the XXVI International Horticultural Congress and Exhibition. p. 570.
66. Wheeler, T. A., Z. Xiang, E. B. Peffley, and J. R. Gannaway. 2003. The effect of chitinase and 1, 3-B-glucanase genes in transformed cotton on diseases. Proc. Beltwide Cotton Conferences. National Cotton Council. Nashville, TN. p. 213-221.
67. Peffley, E. B., C. Green, P. Pare, L. Thompson, and D. Tissue. 2003. Plant carbon allocation and partitioning of metabolites in a closed growth facility. Bioastronautics Investigators' Workshop. Galveston, TX. Jan 13-15. p. 120.
68. Teolis, I., E. B. Peffley, R. Taraban, D. B. Wester, and C. McKenney, 2003. Comparing the effectiveness of independent learning, traditional learning, and independent web-based learning when receiving text-based vs. object-based

- material. Abstr. 100th Annual International Conference of the American Society for Horticultural Science. HortScience 38(5):685.
69. Peffley, E. B, C. Green, P. Pare, L. Thompson, D. Tissue. 2004. Plant carbon allocation and partitioning of metabolites in a closed growth facility. Habitation. International Journal for Human Support Research 9(3/4):129-130.
 70. Peffley, E. B and C. S. Davis. 2004. Spicing up space for kids. Habitation. International Journal for Human Support Research 9(3/4):209-210.
 71. Thompson, L., E. Peffley, C. Green, P. Pare, L. Thompson, D. Tissue. 2004. Flavonol levels and sensory characteristics of *Allium* cultivars grown hydroponically at ambient and elevated CO₂. ICES. Colorado Springs, CO. Jul.
 72. Pare, P., C. Green, E. Peffley, L. Thompson, D. Tissue. 2004. Volatile organic compounds and biomass of *Allium* cultivars grown at elevated CO₂. ICES. Colorado Springs, CO. Jul.
 73. McKenney, C. B. and E. B. Peffley. 2005. Development of on-line Horticulture Degree Programs. ASHS-SR Annual Meeting. Little Rock, AR. HortScience.xxxxxx. Feb. 6.
 74. Broome, A. and E. B. Peffley. 2005. Effect of planting density, CO₂, and harvest intervals on biomass of three *Allium* species. Southern Region American Society of Horticulture Science. Little Rock, AR. HortScience.xxxxxx. Feb. 4.
 75. McKenney, C. B. and E. B. Peffley. 2005. Development of on-line Horticulture Degree Programs at Texas Tech University. Southern Region American Society of Horticulture Science. Little Rock, AR. HortScience.xxxxxx. Feb. 4.
 76. Smith, C., I. Teolis, C. B. McKenney and E. B. Peffley. 2005. Comparison of baccalaureate students with dual enrolled high school students in and on-line introductory horticulture course. Southern Region American Society of Horticulture Science. Little Rock, AR. HortScience.xxxxxx. Feb. 4.
 77. Howard, K, E.B. Peffley, C.S. Davis, J. Vizcarra. 2007. Consumer Preference and Postharvest Life of Field-grown Fresh-cut Sunflowers. SR-ASHS annual meeting. Mobile, Alabama. Feb 4, 2007.
 78. Peffley, E. B. Invited Speaker Kerrville, Presenter at the Kerrville Summit Forum for Dispute Resolution in Rural Texas. The title of my presentation "Overview of Crop Biotechnology Issues: The Controversies and Why They Exist". June 12, 2007, Kerrville, Texas
 79. Crosby, L C, E. B. Peffley, and C McKenney. 2008. Harvest Index of 'Rocky' cucumber plants (*Cucumis sativus* L.) grown in 2000 ppm CO₂ is not different

from 'Rocky' cucumber grown in 400 ppm CO₂, Norman F. Childers MS Graduate Student Paper Competition Southern Region- American Society of Horticultural Sciences. Dallas, TX Feb 2, 2008.

80. Broome A, E. B. Peffley, L. D. Thompson, and D. Wester. Effect of CO₂ on harvest schedule and *Allium* quality and sensory quality of *A. fistulosum*. SR-ASHS, Dallas, TX. Feb 2, 2008.
81. Amanda Broome, Ellen B. Peffley, Leslie D. Thompson, and David Wester. Effect of CO₂ on harvest schedule and *Allium* quality and sensory quality of *A. fistulosum* International Controlled Environment Agriculture. Cocoa Beach, Florida March 9, 2008.
82. Leah C. Crosby, Ellen B. Peffley, and Cynthia McKenney Harvest Index of 'Rocky' cucumber plants (*Cucumis sativus* L.) grown in 2000 ppm CO₂ is not different from 'Rocky' cucumber grown in 400 ppm CO₂. International Controlled Environment Agriculture. Cocoa Beach, Florida March 9, 2008.

CD ROM:

1. Kane, C. D., C. J. Green, E. B. Peffley, and L. D. Thompson. 2002. Onion growth and composition in hydroponics systems. Agronomy Abstracts.
2. Wheeler, T. A., E. B. Peffley, and Z. Xiang. 2002. The effect of soilborne fungi on yield stagnation. Proc. Beltwide Cotton Conference. National Cotton Council, Atlanta, GA.

Seminars and Presentations (Career Total of 152):

1. Peffley, E. B. 1986. Chinese Cultural University. Taipei, Taiwan.
2. Peffley, E. B. 1986. Horticultural Breeding International Symposium. Taichung, Taiwan. Dec. (Invited)
3. Peffley, E. B. 1988. Allium Eucarpia Symposium. University of Warwick, Coventry, United Kingdom. Sep. (Invited)
4. Peffley, E. B. 1989. Institute for Horticultural Plant Breeding and University of Wageningen Faculty Seminar. Wageningen, The Netherlands.
5. Peffley, E. B. 1989. Nickerson Seed Company, International. Cambridge, United Kingdom.
6. Mangum, P. E. and E. B. Peffley. 1991. ADH-1 stress response in *Allium fistulosum* L. SWARM American Association for the Advancement of Science. Lubbock, TX. May.

7. Peffley, E. B. 1991. Biotechnology today. College of Home Economics Food and Nutrition Research Group Seminar. Texas Tech University, Lubbock, TX.
8. Peffley, E. B. 1991. Protecting the 1015 onion: DNA fingerprinting. South Texas Onion Committee. McAllen, TX. Oct.
9. Song, P. and E. B. Peffley. 1991. Effects of callus age and hormones on cell suspension cultures of onion. SRM American Association for the Advancement of Science. Lubbock, TX. May.
10. Peffley, E. B. 1992. Disease control in vegetables. Farmer's Co-op. Abilene, TX.
11. Peffley, E. B. 1992. Some plants are enemies: Allelopathy in action. West Texas Vegetable Shippers and Growers. Hereford, TX.
12. Peffley, E. B. 1993. Agriculture in the "90's." Junior League of Lubbock. Lubbock, TX. Sep. 21 and 28, 1993.
13. Peffley, E. B. 1993. Biotechnology and the Texas Tech University Plant Stress Lab. Downtown Kiwanis. Lubbock, TX. Mar.
14. Peffley, E. B. 1993. DNA fingerprinting of Texas 1015 onion. Hereford, TX. Jan.
15. Peffley, E. B. 1993. Horticulture opportunities in the "90's." Houston Community College. May.
16. Peffley, E. B. 1993. Plants for rock gardens in Lubbock. Native Plant Society. Lubbock, TX. Mar.
17. Peffley, E. B. 1994. Texas Tech University Institute for Biotechnology. Presented to Texas Tech University lobbyists, Larry and Rick Meyers. Jun.
18. Peffley, E. B. 1994. Use of cytogenetics in mapping the onion genome. Classical and Molecular Cytogenetic Analysis of Cereal Genomes. United States/Japan joint seminar. Kansas State University. Mar.
19. Peffley, E. B., U. S. Kallemuchikkal, and R. Wettasinghe. 1994. Development of winter-hardy onions for Texas. Plant Stress Research Institute. Lubbock, TX. Dec.
20. Peffley, E. B. 1995. Bonsai for fun. Petal Pushers Garden Club. Lubbock Municipal Garden and Arts Center. Lubbock, TX. Jan.
21. Peffley, E. B. 1995. Cold-hardy onions for Texas. West Texas Vegetable Shippers and Growers. Hereford, TX. Jan.

22. Peffley, E. B. 1995. Horticulture as a career. Northridge Elementary. Lubbock, TX. Apr.
23. Peffley, E. B. 1995. House plants for the dormitory environment. Texas Tech University Knapp and Horn Halls. Lubbock, TX. Mar.
24. Peffley, E. B. 1995. Plant molecular biology. Institute for Plant Stress Advisory Board. Lubbock, TX. Mar.
25. Peffley, E. B. 1996. Biotechnology applied to onion improvement. Department of Plant and Soil Science Faculty Seminar. Lubbock, TX. Apr.
26. Peffley, E. B. 1996. Gardening in Lubbock--Summer gardens. Lions Club. Lubbock, TX. May.
27. Peffley, E. B. 1996. Tracking of cold hardy germplasm. Institute for Plant Stress. Lubbock, TX. Dec.
28. Peffley, E. B. 1996. Vegetable growing for Lubbock. Southwest Lions Club. Lubbock, TX. May.
29. Peffley, E. B. and T. A. Wheeler. 1996. Molecular approach to disease resistance in cotton. TxCot. Lubbock, TX. Dec.
30. Durham, R. E., C. McKenney, and E. B. Peffley. 1997. Development of a hypertext glossary for teaching undergraduate plant propagation. American Society of Horticulture Sciences Meetings. Salt Lake City, UT. Jul.
31. Peffley, E. B. 1997. Four-season gardening. Master Gardener's Program. Lubbock, TX. May.
32. Peffley, E. B. 1997. Kitchen gardens. Lubbock Food Bank Executive Committee. Lubbock, TX. Jul.
33. Peffley, E. B. 1997. Transgenic vegetables. Chitawqua National Science Foundation Seminar Series. Lubbock, TX. Mar.
34. Wheeler, T. A. and E. B. Peffley. 1997. Molecular approach to disease resistance in cotton. TxCot. Dallas, TX. Dec.
35. Peffley, E. B. 1998. Sabbatical in England. Department of Plant and Soil Science Faculty Seminar. Texas Tech University. Lubbock, TX. Mar. 8.
36. Applegarth, A., E. B. Peffley, R. Taraban, R. E. Durham, C. B. McKenney, and L. McGann. 1998. Web-based learning: A plant science lab case study. Abstr.

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Concurrent Sessions H, Article 2.

37. Peffley, E. B. 1999. Intensive market gardening for High Plains growers. West Texas Vegetable Growers Conference. Hereford, TX. Jan. 19.
38. Peffley, E. B. 1999. Horticulture and distance education at Texas Tech University. Agricultural Consortium of Texas. Lubbock, TX. Apr. 2.
39. Peffley, E. B. 1999. Spring speaker series. Groves Branch Library. Lubbock, TX. Mar. 29.
40. Peffley, E. B. 1999. Horticultural courses at a distance. CAST. Lubbock, TX. Oct. 29.
41. Peffley, E. B. 1999. Internet interview “Experts eye the future.” Office.com. Industry Focus Section of Biotechnology Smart Business. Dec. 6.
42. Peffley, E. B., T. A. Wheeler, and John Gannaway. 1999. A strategy to develop disease resistant transgenic cotton plants. Texas State Support Committee, Cotton Incorporated. Austin, TX. Dec. 13.
43. Peffley, E. B., R. E. Durham, and C. B. McKenney. 1999. Administrative bottlenecks in launching a web-based course. Abstr. American Society for Horticulture Science, Southern Region. Memphis, TN. Jan. 30.
44. Peffley, E. B. 2000. Poster: “Development of WWW horticulture foundation courses”. USDA Project Director’s Conference. Washington, D.C. Mar. 5-6.
45. Peffley, E. B. 2000. Vegetable gardening in Lubbock and color in the garden. Calvary Baptist Church. Lubbock, TX. Apr. 11.
46. Peffley, E. B. 2000. Professional Seminar. PSS Faculty. Lubbock, TX. Aug.
47. Peffley, E. B. 2000. NASA EDU/Plant Team Research. Wisconsin Center for Space Automation and Robotics. University of Wisconsin. Madison, WI. Sep. 29.
48. Peffley, E. B. and C. B. McKenney. 2000. Plant Science and Distance Education. WK62143. CAST 2000 Conference. College Station, TX. Oct. 14.
49. Lombard, K. A., E. B. Peffley, E. Geoffriau, and L. Thompson. 2000. Effect of thermal processing on quercetin content of onion. Alliums 2000, The 3rd International Symposium on Edible Alliaceae. University of Georgia. Athens, GA. Oct. 29-Nov. 3.

50. Mangum, P. D. and E. B. Peffley. 2000. Inheritance of EST and PGI in *Allium fistulosum* L. Alliums 2000, The 3rd International Symposium on Edible Alliaceae. University of Georgia. Athens, GA. Oct. 29-Nov. 3.
51. Mangum, P. D. and E. B. Peffley. 2000. Incongruity in *Allium cepa* L. and *Allium fistulosum* L. hybrids. Alliums 2000, The 3rd International Symposium on Edible Alliaceae. University of Georgia. Athens, GA. Oct. 29-Nov. 3.
52. Peffley, E. B. 2000. Transient expression of GUS in *Allium cepa* L. and *Allium fistulosum* L. by particle bombardment. Alliums 2000, The 3rd International Symposium on Edible Alliaceae. University of Georgia. Athens, GA. Oct. 29-Nov. 3.
53. Peffley, E. B. 2000. Space research in the College of Agricultural Sciences and Natural Resources at Texas Tech University. Conference for High School Science/Math Teachers and Counselors. Lubbock, TX. Nov. 15.
54. Peffley, E. B. 2000. NASA EDU/Plant Team Research. Cassidy and Associates. Lubbock, TX. Nov. 19.
55. Peffley, E. B., T. Wheeler, and J. Gannaway. 2000. Transgenic cotton from genetic control of seedling and wilt diseases. Texas State Support Review. USDA Plant Stress Lab. Lubbock, TX. Dec. 8.
56. Peffley, E. B., C. B. McKenney, R. Taraban, and I. Teolis. 2001. A comparison of the performance of students learning plant materials via the worldwide web and traditional instruction. SR-ASHS Annual Meeting. Fort Worth, TX. Jan 27-29.
57. Peffley, E. B. 2001. Gardening in the beyond. District 1 Texas Garden Clubs, Inc. 55th Annual Convention. Lubbock, TX. Mar. 20.
58. Peffley, E. B. 2001. Gardens in space. District 11 Garden Club Annual Meeting. Luncheon Speaker. Marriott Four Seasons. Lubbock, TX. Mar. 20.
59. Peffley, E. B. 2001. Graduate seminar. Plant and Soil Science Department. Texas Tech University. Apr.
60. Peffley, E. B. 2001. Texas Tech University's NASA project. College of Agricultural Sciences and Natural Resources 50th Class Reunion. May 3.
61. Peffley, E. B. 2001. Middle-school class presentations to four science classes. NASA and Texas Tech University hydroponic study. May 4.
62. Peffley, E. B. 2001. Honors/undergraduate research program in CASNR. Results of the CASNR Ad Hoc committee. CASNR Faculty Retreat. Merket Center,

Texas Tech University. Aug.

63. Peffley, E. B. 2001. *You can be a woman botanist*. Presentation on how botany is used in space. Barnes & Noble Bookstore. Guest speaker for the Girl Scouts and other girls 7-12 years of age. Handed out picture of Bonnie Dunbar and NASA logos. Lubbock, TX. Oct. 20.
64. Peffley, E. B. 2001. Vegetable production in space. High School Science/Biology Teachers and Counselors. College of Agricultural Sciences and Natural Resources. Texas Tech University. Oct. 31.
65. Teolis, I., E. B. Peffley, and C. B. McKenney. 2001. A study of the effect of a web-based horticulture course on the performance and perceptions of university students. SR-ASHS Annual Meeting. Fort Worth, TX. Jan. 27-29.
66. Peffley, E. B. 2002. Lessons learned in an online horticulture course. SR-ASHS Annual Meeting. Orlando, FL. Feb. 3.
67. Peffley, E. B. 2002. Lessons learned in an online horticulture course. HortScience 37(5):741.
68. Teolis, I., E. B. Peffley, and C. B. McKenney. 2002. Can we predict student success in online courses? SR-ASHS Annual Meeting. Orlando, FL. Feb. 3.
69. Wheeler, T. A., E. B. Peffley, and Z. Xiang. 2002. The effect of soilborne fungi on yield stagnation. Beltwide Cotton Conference. Atlanta, GA. Jan.
70. Jasoni R., C. Green, L. Thompson, D. Tissue, E. B. Peffley, and P. Paré. 2002. Volatile emissions from onion (*Allium cepa* cv. 'purplette') exposed to elevated carbon dioxide levels. SR-ASHS Annual Meeting. Orlando, FL. Feb. 4.
71. Johnson, J. B. Wehner, E. B. Peffley, J. Hutson, C. Kane, J. Morris, R. Jasoni, C. Green, P. Paré, L. Thompson, and D. Tissue. 2002. The effects of photoperiod on biochemistry and photosynthesis in onion, *Allium fistulosum*. SR-ASHS Annual Meeting. Orlando, FL. Feb. 4.
72. Morris, J., L. Thomspson, E. B. Peffley, C. Green, P. Paré, D. Tissue, R. Jasoni, J. Hutson, J. Johnson, B. Wehner, and C. Kane. 2002. Flavonol content and composition of onions grown (*Allium cepa* L.) hydroponically in greenhouses and growth chambers. SR-ASHS Annual Meeting. Orlando, FL. Feb. 4.
73. Johnson, J., B. Wehner, E. B. Peffley, J. Hutson, C. Kane, J. Morris, R. Jasoni, C. Green, P. Paré, L. Thompson, and D. Tissue. 2002. The engineering development unit project. Texas Space Grant Consortium Hotel Conference. Houston, TX. May 16.

74. McKenney C. B., E. B. Peffley, and I. Teolis. 2002. A comparison of asynchronous communication levels with students enrolled in compressed video, internet, and traditional classes. International Horticulture Congress. Toronto, Canada. Aug. 13.
75. Peffley, E. B. 2002. Conservatism and agriculture. College Republicans. Texas Tech University. Oct. 2.
76. Peffley E. B., C. Green, P. Pare, L. Thompson, and D. Tissue. 2003. Plant carbon allocation and partitioning of metabolites in a closed growth facility. Bioastronautics Investigators' Workshop. Galveston, TX. Jan. 13-15.
77. Peffley, E.B. 2003. Metropolitan Rotary Club. Developments in Plant Genetics – NASA funded research. Lubbock, TX. Feb. 7.
78. Peffley, E.B. 2003. A look at European produce. International Cultural Center panelist on issues in international agriculture. Texas Tech University. Mar. 12.
79. Peffley, E.B. 2003. Spicing up space. Presented to the Regional FFA High School Career Development Competition. Texas Tech University. Lubbock, TX. Apr. 26.
80. van Gestel, N. A. Nesbit, E. B. Peffley, and D. Tissue. 2003. "Effect of photoperiod on photosynthetic performance and carbon flux of *Allium fistulosum* and *A. cepa*". Poster presentation. 2003 Ecological Society of America Meeting (ESA). Savannah, GA. Aug.
81. Peffley, E. B. 2003. Multi-disciplinary approach to research funded by NASA. CASNR Faculty Retreat. Aug.
82. Peffley, E. B., PSS Study Abroad Opportunities. Gardens of England. TTU Library Croslin Room. Lubbock, TX. Sep. 2003.
83. Teolis, I., E. B. Peffley, C. McKenney, D. Wester, and R. Taraban, 2003. Comparing the effectiveness of independent learning, traditional learning, and independent web-based learning when receiving text-based versus object-based material. Annual meeting of the American Society Horticultural Science. Providence, RI. Oct
84. Peffley, E. B. 2003. Garden of England study abroad poster presentation. Texas Tech Library Croslin Room. Lubbock, TX. Oct.
85. Peffley, E. B. 2003. Study abroad program in Plant and Soil Science. Honor's College representative for Gordon Hall presentation. Lubbock, TX. Nov.

86. Peffley, E.B. 2003. Onion hydroponics. Lubbock High School Horticulture Class. Dec.
87. Peffley, E. B., 2003. Study Abroad Fair. PSS Study Abroad Gardens of England. Gordon Hall. Dec. 9.
88. Peffley, E. B., C. Green, P. Pare, L. Thompson, and D. Tissue. 2004. Plant carbon allocation and partitioning of metabolites in a closed growth facility. Biomass II oral presentation. Habitation 2004 Conference. Orlando, FL. Jan. 4-6.
89. Peffley, E. B. 2004. Spicing up space. Outreach Poster Session. Habitation 2004 Conference. Orlando, FL. Jan. 4-6.
90. Peffley, E. B. 2004. Education panel. Habitation 2004 Conference. Orlando, FL. Jan. 4-6.
91. Peffley, E. B. 2004. A history of English gardens, 1st through 20th centuries. Gardens of England Class. Lubbock, TX. Jan. 20.
92. Peffley, E. B. 2004. Optimizing onion biomass in controlled environments. Howard Hughes Medical Investigators seminar. Lubbock, TX. Feb. 19.
93. Peffley, E. B. 2004. Optimization of onion biomass under controlled environments. Habitation. International Journal for Human Support Research 9(3/4):129-130.
94. Thompson, L., E. Peffley, C. Green, P. Pare, L. Thompson, D. Tissue. 2004. Flavonol levels and sensory characteristics of *Allium* cultivars grown hydroponically at ambient and elevated CO₂. ICES. Colorado Springs, CO. Jul.
95. Pare, P., C. Green, E. Peffley, L. Thompson, D. Tissue. 2004. Volatile organic compounds and biomass of *Allium* cultivars grown at elevated CO₂. ICES. Colorado Springs, CO. Jul.
96. Teolis, I., E. B. Peffley, and D. B. Wester. 2004. Do students really learn as much horticulture with web-based instruction as in the classroom? American Society for Horticultural Science Southern Region 64th Annual Meeting. Tulsa, OK.
97. Peffley, E. B. and C. S. Davis. 2004. Spicing up space for kids. Habitation. International Journal for Human Support Research 9(3/4):209-210.
98. Pare, P. W., R. Jasoni, E. Peffley, L. Thompson, D. Tissue, and C. Green. 2004. Elevated carbon dioxide alters hydrocarbon emissions and flavor in onion. ICES. Colorado Springs, CO. Jul 19.

99. Thompson, L., E. Peffley, C. Green, P. Pare, and D. Tissue. 2004. Biomass, flavonols levels and sensory characteristics of *Allium* cultivars grown hydroponically at ambient and elevated CO₂. ICES. Colorado Springs. CO. Jul 19.
100. Peffley, E. B. 2004. Spicing up space. Texas Council of Garden Clubs Statewide Meeting. Sheraton Four Points. Lubbock, TX. Oct 27.
101. Broome, A. and E. B. Peffley. 2005. Effect of planting density, CO₂, and harvest intervals on biomass of three *Allium* species. Southern Region American Society of Horticulture Science. Little Rock, AR. Feb. 4.
102. McKenney, C. B. and E. B. Peffley. 2005. Development of on-line Horticulture Degree Programs. ASHS-SR Annual Meeting Little Rock, AR. Feb. 6.
103. McKenney, C. B. and E. B. Peffley. 2005. Blending Interactive Video Conferencing Classes with WebCT. TTVN Annual Conference. Corpus Christi, TX. Feb 22.
104. Smith, C., I. Teolis, C. B. McKenney and E. B. Peffley. 2005. Comparison of baccalaureate students with dual enrolled high school students in and on-line introductory horticulture course. Southern Region American Society of Horticulture Science. Little Rock, AR. Feb. 4.
105. Peffley, E. B., 2005. Next generation of scientists are inspired at an early age. International Conference on Environmental Space Science. Presentation of SAE International Paper Number 05ICES-325. Rome, Italy. Jul. (Invited).
106. Lohr V., E.B. Peffley, J. Fox, A. Wagner. 2005. Lowenstein Lecture "*What is a Scientist*". Lynn Middle School, 6th, 7th, 8th grades, Las Cruces, April 20, 2005 (invited).
107. Peffley, E.B., V. Lohr, J. Fox, A. Wagner. 2005. Lowenstein Lecture "*Spicing up Space*". Hillrise Elementary, 4th and 5th grades, Las Cruces, April 21, 2005 (invited).
108. Peffley, E.B., V. Lohr, J. Fox, A. Wagner. 2005. Lowenstein Lecture "*Why*
109. *Science Needs Women*". New Mexico State University, Las Cruces, April 21, 2005 (invited).
110. Peffley, E.B., V. Lohr, J. Fox, A. Wagner. 2005. Lowenstein Lecture "*How NMSU Helped Us Become Scientists: Remembrances & Recommendations*". New Mexico State University, Las Cruces, April 22, 2005 (invited).
111. Peffley, E. B., PSS Study Abroad Opportunities. Gardens of Italy. TTU Library Croslin Room. Lubbock, TX. Sep. 27, 2005.

112. Peffley, E.B. and R. Smith. Conceptualizing and Practicing the Scholarship of Teaching and Learning. Teaching, Learning, and Technology Center. September 29, 2005.
113. Basinger, A., C. McKenney and E. Peffley. 2005. Identifying learning objectives and competencies for horticulture programs. HortScience. 40(4):955. Teaching methods working group for ASHS.
114. McKenney, C. and E. Peffley. 2005. The pros and cons of migrating classes to the web: Are we getting what we truly want from this effort? HortScience 40(4):982. July. (oral paper)
115. McKenney, C. and E. Peffley. 2005. Blending interactive video conferencing classes with WebCT. HortScience. 40(4): 1043. (poster)
116. Peffley, E. B. 2005. Education Outreach in NASA research in Plant Science at Texas Tech University. LEAD (Lubbock Economic Development) and LISD (Lubbock Independent School District). Alderson Middle School. Presented our program to high school and middle school counselors and science teachers. October 6.
117. Peffley, E.B. 2005. Espalier in PSS Horticulture Gardens and Greenhouse complex. Met with horticulture students and gave lecture on art of espalier with instructions on training, and worked with them to complete a pleached espalier. October 3rd and 17th.
118. Peffley, E.B. and R. Smith. 2005. Conceptualizing and Practicing the Scholarship of Teaching and Learning. Scholarship of Learning and Teaching TLTC fall roundtable. TTU. September.
119. Peffley, E.B. 2005. PSS Advisory Committee presentation. PSS Strategic Planning Teaching committee chair. 2005. Dec.
120. Peffley, E.B. 2005. Gardens of Italy. December 5. TTU.
121. Peffley, E.B. 2006. Gardens of Italy. International Study Abroad Fair. January 26.
122. Peffley, EB. 2006. CASNR International Fair. Panel member international teaching. Poster presentation. Feb 3, 2006. TTU.
123. Peffley, E.B. Moving from good to distinguished teaching. Scholarship of Learning and Teaching TLTC fall roundtable. TTU. September 29, 2006.
124. Peffley, E.B. 2006. Plant & Soil Science Horticulture Curriculum at Texas Tech University. Emanuel University, Oradea, Romania, October 10, 2006.

125. Peffley, E.B. 2006. Horticulture Therapy possibilities for Service Majors at Emanuel University. Emanuel University, Oradea, Romania, October 12, 2006.
126. Kara Howard and Ellen Peffley. Sunflower Field Day for local florists. Quaker Street Farm. TTU, Lubbock. August 21, 2006.
126. Ellen Peffley. PSS Advisory Board presentation on field programs. TTU. Lubbock. August 28, 2006.
127. Howard, K, E.B. Peffley, C.S. Davis, J. Vizcarra. 2007. Consumer Preference and Postharvest Life of Field-grown Fresh-cut Sunflowers. SR-ASHS annual meeting. Mobile, Alabama. Feb 4, 2007.
128. Invited Speaker Kerrville, Presenter at the Kerrville Summit Forum for Dispute Resolution in Rural Texas. The title of my presentation "Overview of Crop Biotechnology Issues: The Controversies and Why They Exist". June 12, 2007, Kerrville, Texas.
129. Peffley, EB. Gardens of France and Belgium. Poster CASNR International Day retreat. August 2007.
130. Peffley, EB. Gardens of France and Belgium. Poster Study Abroad Fair. September 2007.
131. Peffley, EB. Gardens of France and Belgium. Seminar presentation Study Abroad trip May 2008. PS115, September 10, 2007.
132. Peffley, E.B. 2007. Horticulture experience in Study Abroad. Seminar presented to Honors students at University Day for Top Scholars. Oct 8, 2007.
133. Peffley, EB. Itinerary Gardens of France, Luxemburg, and Belgium class. November 8, 2007.
134. Peffley, EB. Gardens of France, Luxemburg, and Belgium class. November 15 2007.
135. Broome A, E. B. Peffley, 2008. Photosynthetic efficiency and sensory quality of *Allium fistulosum* (L.) grown in elevated CO₂. Southern Region American Society of Horticulture Science Annual Meeting. Dallas, TX Feb 3, 2008.
136. Peffley, E.B. 2008. Spring Gardening No Better Way to Start the Year. Osher Life Long Learning Institute. Outreach & Distance Education, TTU. February 27, 2008.

137. Peffley, E.B. 2008. Horticulture experience in Study Abroad. Seminar presented to Honors students at University Day for Top Scholars. March 3, 2008.
138. Peffley, E.B. 2008. A Horticulture Teaching and Research Program. PSS Graduate Seminar. TTU. March 3, 2008.
139. Crosby, L C, E. B. Peffley, and C McKenney. 2008. Harvest Index of 'Rocky' cucumber plants (*Cucumis sativus* L.) grown in 2000 ppm CO₂ is not different from 'Rocky' cucumber grown in 400 ppm CO₂, NCERA-101 International meeting, Cocoa Beach, FL, March 10, 2008.
140. Broome A, E. B. Peffley, L. D. Thompson, and D. Wester. 2008. Effect of CO₂ on harvest schedule and *Allium* quality and sensory quality of *A. fistulosum*. NCERA-101 International meeting, Cocoa Beach, FL, March 10, 2008.
141. Peffley, Ellen. 2008/ NASA Space, Science, and Engineering Teacher Workshop. Curriculum was given to each participant and teachers were able to set up a hydroponic unit and transplant seedlings into the unit. Ellen Peffley. June 25, 2008. Horticulture Gardens and Greenhouse Complex, TTU.
142. Peffley, Ellen. 2008. Invited Presentation. Growing Plants for NASA. Association of Education and Research Greenhouse Curators. July 28, 2008. Lubbock, Texas
143. Peffley, Ellen. 2009. Get a jump on spring vegetables. Osher Lifelong Learners. January.
144. Peffley, Ellen. 2009. Spring-planted Vegetables. Lubbock Arboretum and Garden Center. April.
145. Peffley, Ellen. 2009. Gardening in small places. Calvary Baptist Church. April.
146. Peffley, Ellen. 2009. Organic Vegetable Gardening. City of Lubbock. Workshop. May.
147. Peffley, Ellen. 2009. Organic Gardening Practices. City of Lubbock. Workshop. August.
148. Peffley, Ellen. 2010. Vegetables... Growing, Preparing, Using. April 15. University Medical Center Wellness Series, Lubbock, Texas
149. Peffley, Ellen. 2010. Organic gardening tour. April.
150. Peffley, Ellen. 2011. Vegetables From the Garden to the Table. May. Lubbock Arboretum.

151. Peffley, Ellen. 2011. Espalier. Master Gardeners, August.
152. Peffley, Ellen. 2011. Organic Vegetable Gardening. Master Gardeners. September.

Principal Subject Matter for Teaching:

Horticulture, vegetable crops, genetics and agricultural biotechnology.

Statement of Philosophy of Teaching, Research, and Service:

It is an honor to be a professor at Texas Tech University. My position as a faculty member is one that I value and enjoy and do not take for granted. I have been blessed to have had mentors that inspired me to become the best teacher I could be. I would like to pass on to the next generation, hopefully, the best that was given to me. Today when I teach - in formal classes or just chatting with students in the halls or greenhouse or lab - I am returning to my students the gifts my mentors gave to me. What we do mostly is to plant seeds. My goal is to be a positive influence in lives of students, to motivate them to achieve their highest academic potential, and beyond their academic potential, to motivate them to aspire to be better people. I want my students to be aware of their importance in society that one person can make a difference. Individuals gain appreciation for subjects by encountering new experiences first-hand. Exposing students to research in their undergraduate years models for students how to think critically. As faculty, I believe we are called to go beyond teaching merely what others have discovered before us; we are to keep current in the literature, demonstrate applications, and show students our own new and fresh discoveries and let them learn the excitement of making their own personal discoveries. I have found that 'intangibles', not easily quantified, are those that have set the stage for a fulfilling career. Success for me is reaching out to a student and bringing them beyond their own expectations - hearing a student say, "I learned something new today", "this makes sense", "I never knew I would like doing this", "I would like to learn more about this", "I love horticulture". Those days I go home well-satisfied and ready for another day, privileged to be a university professor.

Workshops - Organized/Conducted (Career Total of 23):

1. Peffley, E. B. 1986. Onion research on the High Plains. Texas Tech University. Organizer.
2. Peffley, E. B. 1987. Onion research on the High Plains. Texas Tech University. Organizer.
3. Peffley, E. B. 1988. Onion research on the High Plains. Texas Tech University. Organizer.
4. Peffley, E. B. 1997. Horticulture Distance Education Workshop. Texas Tech University. Organizer. May 21.

5. Peffley, E. B. 1998. Development of Multimedia Equipment in PSS 108. Faculty Training Workshop. Texas Tech University. Sep. 15.
6. Peffley, E. B. and M. Cepica. 1998. Multimedia for AgEd 102. Faculty Training Workshop. Texas Tech University. May 28-29.
7. Peffley, E. B. and M. Cepica. 1998. Multimedia for AgEd 102. Faculty Training Workshop. Texas Tech University. Dec. 15.
8. Peffley, E. B. 1999. Horticulture courses at a distance--Workshop SC4106. Conference for the Advancement of Science Teaching--Science is For All. Lubbock, TX. Oct. 28.
9. Peffley, E. B. 2000. College of Agricultural Sciences and Natural Resources Faculty Retreat. Multimedia Workshop. Lubbock, TX. Aug.
10. Peffley, E. B. 2001. Science It's a Girl's Thing. "A Living System" presented to 5th and 6th grade girls. Hosted by Texas Tech University, Howard Hughes Medical Institute, and Institute for the Development and Enrichment of Advanced Learners. Texas Tech University Horticultural Gardens and Greenhouse. Lubbock, TX. Jun. 26.
11. Peffley, E. B. 2002. Science It's a Girl's Thing. "A Living System" presented to 5th and 6th grade girls. Hosted by Texas Tech University, Howard Hughes Medical Institute, and Institute for the Development and Enrichment of Advanced Learners. Texas Tech University Horticultural Gardens and Greenhouse. Lubbock, TX. Jun. 27.
12. Peffley, E. B. 2003. "Horticulture: Something's Fishy" presented to 5th and 6th grade girls. Hosted by Texas Tech University, Howard Hughes Medical Institute, and Institute for the Development and Enrichment of Advanced Learners. Texas Tech University Horticultural Gardens and Greenhouse. Lubbock, TX. Jun. 24-27.
13. Peffley, E. B., A. Broome, and J. Brown. 2004. Ag in the classroom. Summer Science Workshop. TTU Horticulture Greenhouse. 30 regional science and agriculture teachers, Grades 1-12. Jul. 22.
14. Brown, J., E. B. Peffley, and A. Broome. 2004. Ag in the classroom. Summer Science Workshops. Science and agriculture teachers. Grades 1-12. Texas A&M University. Canyon, TX . Jul. 29.
15. Brown, J. E. and E. B. Peffley. 2004. Blast off into science. Ag in the Bag Workshops for Ag Awareness Week. Grades 1-College. Texas Tech University. Lubbock, TX. Nov. 17-19.

16. Broome A., J. Brown, and E. B. Peffley. 2005. Ag in the classroom. Summer Science Workshop. TTU Horticulture Greenhouse. 30 regional science and agriculture teachers, Grades 1-12. Jul. 21.
17. Broome A., J. Brown, and E. B. Peffley. 2005. Ag in the classroom. Summer Science Workshops. Science and agriculture teachers. Grades 1-12. Texas A&M University. Canyon, TX. Jul. 22.
18. Peffley, E.B. 2005. Espalier technology in the PSS Horticulture Gardens. Hort Society undergraduate students. How to make an espalier and actual pruning practices in the garden, October 3rd, 17th.
19. NASA Teaching Workshop July 11, 2007. 26 teachers from state of Texas. from Texas and New Mexico
20. Science It's a Girl Thing. July 24-26, 2007. Ten 7th and 8th grade girls
21. Peffley, E. B. 2008. NASA Space, Science, and Engineering Teacher Workshop. Workshop presented to K-12 science teachers and curriculum developers. Booklets with curriculum was given to each participant and teachers were able to set up a hydroponic unit and transplant seedlings into the unit. Ellen Peffley. June 25, 2008. Horticulture Gardens and Greenhouse Complex, TTU
22. Broome A. and E. B. Peffley. 2008. Ag in the classroom. Summer Science Workshops for 33 science and agriculture teachers. Grades 1-12. Horticulture Gardens and Greenhouse Complex, TTU. Lubbock, TX. Jul. 22.
23. Crosby, L. and E. B. Peffley. 2008. Science It's a Girl Thing. July 22-24, 2008. Twelve 7th and 8th grade girls. Horticulture Gardens and Greenhouse Complex, TTU

Graduate Students Directed (Career Total of 19):

M.S.

1. Orozco-Castillo, Carlos. 1987. Percent solids and other characteristics of progeny resulting from interspecific trisomic onion backcrosses. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
2. Lu, Chung-Cheng. 1988. Callus induction, proliferation, and organogenesis in *Allium*. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
3. Green, William. 1989. The effects of soil compaction and soil water on the yield of Norgold russet potatoes. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.

4. Closs, Timothy J. 1991. Micropropagation of *Leucophyllum candidum* 'Silver Cloud.' M.S. Thesis. Department of Agronomy, Horticulture, and Entomology. Texas Tech University.
5. Macharia, Charles. 1991. Allelopathic control of *Amaranthus* spp. by *Allium* spp. M.S. Thesis. Department of Agronomy, Horticulture, and Entomology. Texas Tech University.
6. Wettasinghe, Ruwanthi. 1996. Investigation of random amplified polymorphic DNA (RAPD) as a marker for soluble solids in onion. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Dec.
7. Applegarth, Ashley. 1999. Development of horticulture foundation courses on the world wide web. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Dec.
8. Lombard, Kevin. 2000. Flavonol quercetin in onion (*Allium cepa* L.) by HPLC and spectrophotometric analysis. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Aug
9. Broome, Amanda. 2006. M.S. Horticulture. Department of Plant and Soil Science. Texas Tech University. Dec
10. Howard, Kara. (2007). Consumer Preference and Postharvest Life of Field-grown Fresh-cut Sunflowers. Department of Plant and Soil Science. Texas Tech University. May.
11. Crosby, Leah. (2008). Cucumber biomass and sensory qualities for NASA application. Department of Plant and Soil Science. Texas Tech University. (Aug).

Ph.D. (Total of 6)

1. Song, Ping. 1994. Genetic transformation of onion. Department of Plant and Soil Science. Texas Tech University. May.
2. Hou, Anfu. 1998. Gene transmission in onion followed with Fluorescence in situ hybridization (FISH). Department of Plant and Soil Science. Texas Tech University. Aug.
3. Mangum, Paul. 2001 Genetics of esterase in onion. Department of Plant and Soil Science. Texas Tech University. May.
4. Liu, Weixin. 2003. Evaluation of guar (*Cyamopsis tetragonoloba* L. Taub) gum and agronomic trait quality. Department of Plant and Soil Science. Texas Tech University. Dec.

5. Teolis, Igino. 2003. A comparison of the performance and perceptions of students receiving live versus web-based horticulture instruction. Department of Plant and Soil Science. Texas Tech University. Dec.
6. Xiang, Zhixin (Jeannie). 2003. Exogenous antifungal genes in cotton. Department of Plant and Soil Science. Texas Tech University. Dec.

Graduate Students in Progress:

Ph.D

1. Broome, Amanda. (2008). Plant density affects biomass of onions grown in controlled environment. Department of Plant and Soil Science. Texas Tech University. (May).

Graduate Committees (Career Total of 38):

M.S.

1. McKenney, Cynthia Bilyea. 1986. Physiological and morphological effects of film-forming antitranspirants on herbaceous ornamentals. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
2. Plowman, Russell D. 1986. Micropropagation and callus culture of *Unghadia speciosa* Endl. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
3. Zimmerman, Thomas W. 1987. Development of cotton callus initiation medium and in vitro screening for osmotic stress tolerance. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
4. Doederlein, Thomas Alan. 1991. Host preference of thrips (*Thysanoptera*) associated with weeds and onions on the Southern High Plains. M.S. Thesis. Department of Agronomy, Horticulture, and Entomology. Texas Tech University.
5. Mangum, Paul D. 1992. Localization and characterization of the fasciation mutation in *Haplopappus gracilis*. M.S. Thesis. Biology. Texas Tech University.
6. Maldonado, Sergio. 1993. Hybrid sunflower offtypes resulting from pollination by insects of the Texas Rolling Plains. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University.
7. Ipser, Reid. 1998. Effects of static electrical devices on red imported fire ant behavior. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Dec.

8. Graham, Hunter. 1999. Refrigeration of the rhizosphere to delay budbreak in grapes. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. Dec.
9. Lockett, Landry. 2000. Public perception of native plants in xeriscapes at three levels of moisture. M.S. Thesis. Department of Plant and Soil Science. Texas Tech University. May.
10. Morris, Jay. 2001. Analyses of total flavonols in onions grown hydroponically. M.S. Theses. Department of Animal Science and Food Technology. Texas Tech University. Dec.
11. Kane, Chad. 2003. Root phenology and total carbon of hydroponically-grown onions. Department of Plant and Soil Science. Texas Tech University. Aug.
12. Stoker, Vronka. 2003. Evaluation of salt tolerance in herbaceous perennials. Department of Plant and Soil Science. Texas Tech University. Dec.
13. Basinger, Ashley. 2004. Evaluation of the effects of tow deficit irrigation strategies on grapevine cole acclimation, hardiness, growth, yield, and fruit quality. Department of Plant and Soil Science. Texas Tech University. May.
14. Kuper, Kim. (2005). Sensory qualities of onions grown at dense spacings and elevated CO₂. Department of Animal Science and Food Technology. Texas Tech University. (Aug.).
15. Smith, Crystal. (2005). Using pigment inhibitors to overcome seed dormancy. Department of Plant and Soil Science. Texas Tech University. (Dec.).
16. Smith, Crystal. (2005). Germination enhancement of native composites. (Dec.)
17. Jones, Amy. (2006). Propagation and regeneration of buffalo grass. (May).
18. Countryman, Mark. 2006. Horticulture at a distance. Oct.

Ph.D.

1. Bundrandt, Teril. 1987. Electrophoretic and cytogenetic study of selected *Machaeranthera* species and hybrids. Department of Biological Sciences. Texas Tech University. Dec.
2. Lee, Jun-Vae. 1988. A parametric spatial equilibrium and response surface analysis of the Texas U.S. fresh onion industry. Agricultural Economics. Texas Tech University.

3. Shang, Xiaomin. 1988. Cytogenetic and evolutionary studies of the A-genomes of diploid wheats and their relatives. Biological Sciences. Texas Tech University.
4. Gawel, Nicholas John. 1989. Genetics and *in vitro* culture of somatic embryogenesis in *Gossypium hirsutum* L. Department of Plant and Soil Science. Texas Tech University.
5. Phelps, Norris. 1989. Selection of southern soybean genotypes resistant to iron deficiency chlorosis. Department of Plant and Soil Science. Texas Tech University.
6. Holland, Melvin. 1996. Cytogenetic analysis of *Allium galanthum* x *A. cepa* hybrid derivatives. Department of Agronomy and Horticulture. New Mexico State University. (*Student discontinued program.*)
7. Schmidt, Cheryl. 1996. Genetic structure of populations of white-footed mice using anonymous single-copy DNA and microsatellite markers. Biological Sciences. Texas Tech University. May.
8. Waltzer-Stamback, Kathleen Ruth. 1996. A cytogenetic and electrophoretic study of selected diploid and tetraploid populations of *Haplopappus goodingii*. Biological Sciences. Texas Tech University. Dec.
9. Webb, Robert Paul. 1996. Isolation characterization and overexpression of ascorbate peroxidase. Biological Sciences. Texas Tech University. May.
10. Nelson, Susan. 1997. Diacetyl expression in *Solanum tuberosum*. Department of Plant Pathology. Montana State University. Aug.
11. Pittcock, Kim. 1997. Molecular marker characterization of selected grape species found in Texas and New Mexico. Department of Plant and Soil Science. Texas Tech University. May.
12. Yim, Young-Sun. 1998. Identification and characterization of molecular genetic differences among *Bos indicus* and *Bos taurus* feedlot cattle. Department of Animal Sciences. Texas Tech University. Dec.
13. Hong, Kee-Jong. 2002. Modification of ascorbic acid synthesis in transgenic plantings. Department of Plant and Soil Sciences. Texas Tech University. May.
14. Warren, Eve. 2001. Differential assessment of the respiring characteristics of redberry juniper. Department of Range, Wildlife, and Fisheries. Texas Tech University. May.
15. Kaplen, Cindy. (2002) Cytogenetic studies of ferns. Department of Biological Sciences. Texas Tech University. (May). (*Did not complete program.*)

16. Basinger, Ashley. (2007). Horticulture curriculum assessment. Department of Plant and Soil Science. Texas Tech University. (May).

Non-Thesis

1. Mnlongo, Thabasile. 1990. Non-thesis. M.S. Department of Microbiology. Texas Tech University. May.
2. Askew, Melissa. 1998. Non-Thesis. M. Ag. in Horticulture. Department of Plant and Soil Science. Texas Tech University. Dec.
2. Schraeder, Michael. 2004. Non-Thesis. Department of Plant and Soil Science. Texas Tech University. Dec..
4. Countryman, Mark. 2006. Masters of Horticulture at a distance. Dec.

Undergraduate Fellows (Career Total of 6):

1. Dial, Leah. 1995. SOD expression in onion. National Science Foundation Howard Hughes Undergraduate Research Summer Fellowship Program.
2. Robbins, Sharon. 1996. Green fluorescent protein expression in onion. National Science Foundation Howard Hughes Undergraduate Research Summer Fellowship Program.
3. Taylor, David. 1996. Unique isozyme identified in onion plant introductions. National Science Foundation Howard Hughes Undergraduate Research Summer Fellowship Program.
4. Buitron, Jose Alberto. 1997. Histological studies of embryogenesis in onion. McNair's Scholar Research Summer Fellowship Program.
5. Schneider, Amanda. 1999. Texas Tech University Honors College Undergraduate Research Fellowship Program.
6. Thatcher, Jeff. 2004-05. National Science Foundation Howard Hughes Undergraduate Research Education Fellowship Program. Pyruvate analysis in *Allium* grown in controlled environments.

Undergraduate Research Mentor (Career Total of 2):

1. Brosch, Deann. 2001-2002. Evaluation of hybrid peppers. AGSC 4300.
2. Smith, Crystal. 2001-2002. Quercetin Content in an onion breeding line. AGSC 4300.

Student Awards Directed (Career Total of 7):

1. Applegarth, Ashley. Norman F. Childers Graduate Student Paper Award. 1st place Southern Region American Society for Horticulture Science Annual Meeting. Memphis, TN. Jan. 2000.
2. Smith, Crystal. "Genetic Analysis of Quercetin in the 'Lady Raider' Onion (*Allium cepa* L.," CASNR Undergraduate research competition. 1st place. TTU, Lubbock, TX 2002.
3. Mangum, Paul. Doctoral Writing of Excellence Award. 1st place. Southern Region American Society for Horticulture Science Annual Meeting. Mobile, AL. 2003.
4. Teolis, Igino. Warren S. Barham Ph.D. Graduate Students Award. 3rd place. Do students really learn as much horticulture with web-based instruction as in the classroom? I. Teolis, E. Peffley, and D. Wester. Southern Region American Society for Horticulture Science Annual Meeting. Tulsa, OK. 2004.
5. Broome, Amanda. NASA Graduate Student Training Fellowship Award. NNK04ED58G. 2004-2005.
6. Broome, Amanda. 1st Place Norman F. Childers Graduate Student Paper Competition. 2005. Effect of planting density, CO₂, and harvest intervals on biomass of three *Allium* species. Southern Region American Society of Horticulture Science. Little Rock, AR. Feb. 4, 2005.
7. Broome, Amanda. NASA Graduate Student Training Fellowship Award. NNK04ED58G. 2005-2006. Renewal.

External Support: Career Total - \$3,560,000

1. Koeppe, D., W. Wang, H. T. Nguyen, R. Jackson, and E. B. Peffley. 1985-88. Agricultural Biotechnology: Achieving Plant Stress Tolerance Utilizing Cell Culture Techniques. Texas Advanced Technology Research Program. \$59,400.
2. Peffley, E. B. 1989-93. Response of cellular isozyme patterns to low temperature stress. Co-P.I. USDA Cooperative Agreement. \$49,440.
3. Koeppe, D., H. T. Nguyen, N. Trolinder, J. Burke, E. B. Peffley, and R. D. Allen. 1990-92. Achieving Plant Stress Utilizing Cell Culture and Molecular Techniques. Texas Advanced Technology Research Program. \$51,000.
4. Peffley, E. B. 1992-94. Development of winter-hardy pink root resistant onion germplasm for the Texas High Plains. USDA cooperative agreement. \$59,000.
5. Peffley, E. B. 1992-93. Texas 1015 onion: DNA fingerprinting. South Texas Onion Committee. \$12,000.

6. Peffley, E. B. 1993-94. Tolerance of disease stress. Plant Biotechnology Line Item. \$12,100.
7. Peffley, E. B. 1993-94. Transgenic squash. Asgrow Seed Company. \$1,500.
8. Peffley, E. B. 1994-95. Cedar elm DNA. Tom's Tree Place, Lubbock. \$1,650.
9. Peffley, E. B. 1994-96. Exogenous chitinase construct insertion into onion. Asgrow Seed Company. \$56,183.
10. Peffley, E. B. 1994-95. Development of winter-hardy pink root resistant onion germplasm for the Texas High Plains. Institute for Plant Stress. \$30,100.
11. Peffley, E. B. 1995-96. Enhancement of SOD in onion. Plant Stress Institute. \$17,000.
12. Peffley, E. B. 1995. Equipment for enhancing honors horticulture instruction. Texas Tech University. \$2,800.
13. Peffley, E. B. 1995. Visiting scholar. FAO and private funds. \$2,500.
14. Peffley, E. B., T. A. Wheeler, and G. C. Phillips. 1995-96. Direct gene transfer into onion for disease resistance. Southwest Consortium. \$25,000.
15. Durham, R. E., C. B. McKenney, H. H. Tyler, and E. B. Peffley. 1996. Multimedia enhancement of horticultural science curricula. Faculty Incentive Grant, Teaching Learning and Technology Center. \$5,000.
16. Peffley, E. B. 1996-98. Molecular tracking of cold-hardy germplasm. Institute for Plant Stress Research. \$90,000.
17. Peffley, E. B. 1996-2000. Onion tissue culture. Rio Colorado Seeds. \$84,919.
18. Peffley, E. B., R. E. Durham, and C. B. McKenney. 1996. Equipment for undergraduate honors horticulture instruction. Texas Tech 2000 Fund. \$2,800.
19. Peffley, E. B., R. E. Durham, C. B. McKenney, and H. H. Tyler. 1996. Principles of horticulture for distance education. Continuing Education. \$2,000.
20. Peffley, E. B. and T. A. Wheeler. 1996-98. Molecular approach to cotton disease resistance. TxCot. \$50,000.
21. McKenney, C. B., R. E. Durham, and E. B. Peffley. 1997. Development of a world-wide-web educational delivery system for courses in the plant sciences. Teaching, Learning, and Technology Center. Texas Tech University. \$2,875.

22. Peffley, E. B. 1997-2000. Onion transformation. Rio Colorado Seeds, Inc. \$65,964.
23. Peffley, E. B. and J. A. Buitron. 1997. Onion callus histology. McNairs Scholars Research Incentives. \$1,560.
24. Peffley, E. B., C. B. McKenney, and R. E. Durham. 1997-99. Development of world wide web for horticulture courses. USDA Challenge Grant. \$65,653.
25. Peffley, E. B. and D. L. Auld. 1998-2002. Development of a product for industry. Halliburton Energy Services. \$350,432. Account Manager.
26. Peffley, E. B., T. A. Wheeler, and J. Gannaway. 1998-99. A strategy to develop disease resistant transgenic cotton. Texas State Support Committee. \$14,400. Account Manager.
27. Peffley, E. B. 1999. Grape research. Egyptian Cultural and Educational Bureau. \$10,000.
28. Peffley, E. B., C. B. McKenney, R. E. Durham, and D. T. Montague. 1999-02. Designing a horticulture laboratory course to accommodate students with disabilities. USDA Challenge Grants Program. \$83,831. Account Manager.
29. Peffley, E. B., C. J. Green, P. Paré, L. Thompson, and D. Tissue. 2000-01. Plant carbon allocation and partitioning of metabolites in a closed growth facility. Center for Space Science. Texas Tech University. \$376,813. (Account Manager of \$82,350).
30. Peffley, E. B., C. Green, P. Paré, L. Thompson, and D. Tissue. 2001. Plant carbon allocation and partitioning of metabolites in a closed growth facility. \$406,000.
31. Peffley, E. B., C. Green, P. Paré, L. Thompson, and D. Tissue. 2002. Plant carbon allocation and partitioning of metabolites in a closed growth facility. \$436,000. (Account Manager of \$244,568)
32. Cox, J. A novel technique for reducing the costs associated with hydroponic tomato production. Small Business Innovation Research Program, USDA-Cooperative State Research, Education, and Extension Service. Submitted. August 2002.
33. Peffley, E. B. and D. L. Auld. 2002. Development of a product for industry. \$97,400.
34. Peffley, E. B. and D. L. Auld. 2002. Development of a product for industry Supplemental Research. \$10,000.

35. Peffley, E. B. and D. L. Auld. 2003. Development of a product for industry. \$97,400.
36. Peffley, E. B. and D. L. Auld. 2004. Development of a product for industry. Halliburton Energy Services. \$50,000. (Account manager of \$40,000).
37. Peffley, E. B. 2004. GSRP training grant. NNK04ED58G. NASA \$24,000. Effect of Planting Density and Elevated CO₂ on onion biomass
38. Peffley, E. B., C. Green, P. Pare, L. Thompson, and D. Tissue. 2004-05. Plant carbon allocation and partitioning of metabolites in a closed growth facility. NASA \$532,000.
39. Peffley, E. B., B. Dabbert, and P. Pare. 2004. Palatability preferences of guar lines for expanded forage acreage application. Interdisciplinary/Multidisciplinary Seed Grants Program. ORS. TTU. \$20,000. Not funded.
40. Peffley, E. B. and D. L. Auld. 2005. Development of a proprietary product for industry. Halliburton Energy Services. 1/01/05 – 12/31/05 \$100,000. Funded.
41. Basinger, A., C. McKenney, E. B. Peffley. 2005. Connection of curriculum through described competencies for the U.S. horticulture major: A national Delphi study. USDA Challenge Grant. \$237,052. Not funded.
42. Basinger, A., C. McKenney, E. B. Peffley. 2005. Assessment of student learning objectives for horticulture through described competencies and implementation of the diagnostic digital portfolio(r) TTU TLTC. \$8,007. Submitted.
43. Peffley, E. B. GSRP training grant. NASA. 2005. NNK04ED58G. NASA \$17,500. Progress on Effect of Planting Density and Elevated CO₂ on onion biomass; Effect of Spectral Absorbance on onion biomass. Funded
44. Peffley, E. B., P. Pare, L. Thompson, and D. Tissue. 2004-05. Impact of Elevated CO₂ and Planting Density on *Allium*: Consequences for Physiology, Growth and Nutritional Composition. NASA \$314,238. Funded.
45. Peffley, E. B., P. Pare, L. Thompson, and D. Tissue. 2005-06. Impact of Elevated CO₂ and Planting Density on *Allium*: Consequences for Physiology, Growth and Nutritional Composition. \$160,000. Submitted.
46. Peffley, E. B. and D. L. Auld. 2005. Development of a proprietary product for industry. Halliburton Energy Services. 1/01/06 – 12/31/06 \$100,000. Funded.

47. Havey, M. and E.B. Peffley. 2006 – 2010. Comparative Genomic Analyses of the Alliums. Tools and Resources for Plant Genome Research (TRPGR) Program NSF. \$1.4 Million. Submitted.
48. Peffley, E. B., P. Pare, L. Thompson, and D. Tissue. 2006. Impact of Elevated CO₂ and Planting Density on *Allium*: Consequences for Physiology, Growth and Nutritional Composition. \$121,108. Funded (account manager for \$57,463).
49. Peffley, E. B. and D. L. Auld. 2006. Development of a proprietary product for industry. Halliburton Energy Services. 1/01/06 – 12/31/06 \$100,000. Funded.
50. Peffley, E. B. and D. L. Auld. 2006. Development of a proprietary product for industry. Halliburton Energy Services. 7/01/06 – 12/31/06 \$10,000 Supplement. Funded.
51. Havey, M. and E.B. Peffley. 2006 - 2010 Comparative Genomic Analyses of the Alliums. Tools and Resources for Plant Genome Research (TRPGR) Program NSF. \$1.4 Million. Not funded.
52. McKenney, C., A. Basinger and E. Peffley. 2006-2009. Building on prior learning in curriculum: A template for the process of program assessment across multiple institutions. U.S Dept of Agriculture, Challenge Grant for Higher Education. \$201,803. Not funded.
53. Peffley, E. B. and D. L. Auld. 2006. Development of a proprietary product for industry. Halliburton Energy Services. 1/01/07 – 12/31/07 \$110,000. Funded.
54. Peffley, E. B., P. Pare, and L. Thompson. 2007-2008. Plant culture strategy for perishable salad crops with application for space program. NASA. \$120,057. Funded.
55. Peffley, Ellen. 2009. From the Garden GoTexan Program grant, GoTepp granting agency. \$6,697. Texas Department of Agriculture.

Service:

A. University Committees and Service:

Texas A&M University.

1. Onion Research Meetings for onion researchers and area growers. Host. 1986-88.

Texas Tech University.

1. BioSafety Committee. 1998-present.
2. Bioterrorism Task Force. Sub-committee Agricultural Bioterrorism. 2001-02.

3. Distance Learning Faculty Review Panel. 2000.
4. Distance Learning Technology Committee. 1999-2007.
5. Institute for Biotechnology.
 - a. Director Search Committee. 1994.
 - b. Executive Board. 1989-2004.
 - c. Mini-grant Review Panel. 1996.
6. Kellogg, (W. K.) Advisory Committee for Distance Education. 1996. 1999-present.
7. Lab Tours requested by News and Publications or the College of Agricultural Sciences and Natural Resources. 1987-present.
8. McNairs Scholars Program.
 - a. Advisory Committee. 2002.
 - b. Lifestyles of Faculty Panel. 1998-99.
 - c. Mentor. Alberto Buitron. 1998-99.
 - d. Panel Member. 2001. "What faculty looks for in a potential graduate student." Mar. 28
9. Onion Research Meetings for onion researchers and area growers. Host. 1986-88.
10. Pi Alpha Xi. Faculty Advisor. 1987-present.
11. Phi Beta Delta. Honorary International Scholars Organization. Chi Chapter.
 - a. Secretary. 2000-01.
 - b. Historian. 2001-02.
 - c. Vice President. 2003-04.
 - d. President. 2004-06.
12. Provost Office Committees.
 - a. Ad Hoc Grievance. 1993-94.
 - b. Graduate School Direction. 1994-95.
 - c. Self-Study on Evaluation of Teaching Effectiveness. 1999.
 - d. Task Force on Faculty Productivity. 1993-95.
 - e. Telecommunications Infrastructure Fund/Distance Education Task Force. Chair. 1996-97.
 - f. CASNR Dean Search. 2003-04.
13. Science, It's A Girl's Thing. 2000. TTU Howard Hughes Medical Institute and Institute for the Development and Enrichment of Advanced Learners.

14. Selection Committee. Vice-President for Student Affairs. 2000.
15. Sigma Alpha, Rho Chapter. Faculty Advisor. 1996-present.
16. Southern Accreditation for Colleges Committee. 1992.
17. Technology Evaluation and Assessment Committee. Vice-Provost for Extended Studies Committee. 2001-2002.
18. Teaching Academy Executive Committee. 2001-2004.
19. Selection Committee for the TTU Teaching Learning and Technology Center Faculty Fellow. 2002.
20. Science, It's A Girl's Thing. 2001-2002. TTU Howard Hughes Medical Institute and Institute for the Development and Enrichment of Advanced Learners.
21. Tenure and Promotion Tenure Committee for the Department of Education, Nutrition and Restaurant/Hotel Management in the College of Human Sciences, 2002.
22. Biosafety Committee, 2002-2005.
23. Science, It's a Girl Thing. Executive Board. 2003.
24. Teaching Assessment Round Table panelist for the Teaching, Learning, and Technology Center. 2003.
25. Teaching Academy panelist. Teaching Talk for the Departmental Excellent in Teaching Award training panel. Mar. 31, 2003.
26. Distance Learning Technology Committee. 2004.
27. Furniture Committee, Experimental Sciences Building. 2004.
28. Industrial Engineering Graduate Program Reviewer, 2005-06.
29. CASNR Fall Retreat "Engagement" Panel member, Merrett Center, TTU. August 23, 2006.

B. College Committees and Service:

College of Agricultural Sciences and Natural Resources.

1. Agricultural Awareness Week Committee. Chair. 1995-97.
2. Computers in Research Committee. 1984-85.

3. Development Committee. Chair. 1992-93.
4. Distance Education Committee. 1993-2001.
 - a. Chair. 1994-2001.
5. Distance Learning Technology Committee. 2000-02, 2004, 2005.
6. Distance Learning. 2001-05.
 - a. Chair. 2001-04.
7. Honors and Undergraduate Research Ad Hoc Committee.
 - a. Chair. 2000-01.
8. Search Committees.
 - a. Agronomy, Horticulture, and Entomology. Chair. 1990-91.
 - b. Park Administration and Landscape Architecture. Chair. 1987.
 - c. Thornton Distinguished Professor. 1993-94.
 - d. Plant & Soil Science Chair. 2005-06.
9. Southwest Consortium Steering Committee. 1990-91, 1999.
 - a. Panel Reviewer. 1999.
10. Masters of Agriculture at a Distance Task Force. 2003-06.
11. International Activities, 2007-2008

**C. Departmental Committees and Service:
Department of Plant and Soil Science.**

1. Curriculum Committee. 2002.
2. Graduate Committee. 1998.
3. Graduate Recruitment. 1991-94.
4. Institute for Biotechnology. Department Representative. 1989-present.
5. Multimedia Committee. 2000.
 - a. Co-Chair. 1996, 1998-99.
6. Plant Resource Committee. 1999.
7. PSS 1411 Laboratory Manual. Author. 1995.
8. Public Service.

- a. Grower Calls (Vegetable Diseases and Cultural Management).
- 9. Research Committee. 1989.
- 10. Search Committees.
 - a. Woody Plant/Ornamental Horticulture. 1987.
 - b. Molecular Biologist/Geneticist. 1987-88.
 - c. Viticulturist. 1990.
 - d. Weed Specialist. 1992.
 - e. Ornamental/Viticulture Horticulture. 1993.
 - f. Turfgrass/Ornamental Horticulture. 1995; 1997-98.
 - g. Horticulture. 1998.
 - h. Water Management. 2004, 2005.
 - i. PSS Chairman search committee. 2005-2006.
 - j. Enology position. 2006-7.
 - k. Turfgrass Science position. 2006.
- 11. Seminar Series. Recruited three internationally recognized scientists to speak (Jane Lancaster, New Zealand; Bikram Gill, Kansas State University; and Gregory Phillips, New Mexico State University). 1994.
- 12. Tours:
 - a. EDU facility to Texas Tech University statewide undergraduate recruiters. 2001.
 - 1. EDU and greenhouse facilities to aides of Congressman Larry Combest's office. 2001, 2002.
 - 2. Numerous tours to Provosts, visiting dignitaries, students of the EDU and hydroponic research. 2003, 2004, 2005.
 - 3. Field tours of onion and guar breeding plots. 2004.
- 13. Teaching Academy Department Excellence in Teaching Award Committee. 1999.
- 14. Undergraduate Committee. 1996-present.
- 15. Horticulture/Landscape Construction joint degree program. 2005.
- 16. Greenhouse Operations Committee, Chair 2006-2008
- 17. Horticulture Teaching Committee, Chair

D. Professional Society Service:

- American Association for the Advancement of Science (AAAS). 1988-91.**
 - 1. Botanical Sciences Section of AAAS SWARM Division.
 - a. Vice-Chair. 1988-89.

- b. Chair. 1989-91.

American Society for Horticultural Science, Southern Region. 1994-present.

1. Education Section Program. Chair. 2002-03, 2003-04.
2. Postharvest/Biotechnology Section.
 - a. Vice-Chair. 1992-95.
 - b. Chair. 1993-96.
3. Nomination Committee. 1996.
4. Membership for Texas Committee. Chair. 1995-96; 1998.
5. American Society for Horticultural Science, Molecular Biology and Biotechnology for The Journal of the American Society for Horticultural Science. Consulting Editor. 2004.

American Society for Horticultural Scientists, Cross-Commodity. 2000-01.

1. Cross-Commodity Publication Award Committee. 2000-01.

Gamma Sigma Delta, Texas Tech University Chapter. 1982-present.

1. Elected Vice-President. 1994.
2. Agricultural Awareness Week. Chair. 1995-96.
3. President. 1995-96.

National Watermelon Promotion Board

1. Public Member. 2001-02. Reappointed 2003-06.
2. Research Committee. Chair. 2002.

National Science Foundation

Graduate Student Fellowship Program Panel Member. Feb. 2002-04, 2006, 2007, 2008.

Texas Vegetable Association. 1984-2005.

1. Board of Directors. 1988-present.
2. Association Secretary. 1998-99.
3. Vice-President. 1999-2003.
4. Education and Outreach Working Group, NASA. 2004, 2005.

E. Professional / Industry Service:

1. National Service
2007-2009 edition of the *IFIC Foundation Media Guide on Food Safety & Nutrition*.
2. International Service. For the Government of the Country of Georgia, a reviewer of proposals for funding from the Georgian National Science Foundation. 2008
3. State Boards
Texas State Seed and Plant Board. Gov Rick Perry appointment. 2006-7, 2007-8
4. Interviews.
 - a. Internet Interview.
 - (1) ABCnews.com Gene Koprowski. Acceptance of Genetically Modified Organisms in Europe. 1998.
 - b. La Ventana Yearbook.
 - (1) Texas Tech University Faculty Profile: The Lady Raider Onion. 2000.
 - c. Magazine.
 - (1) Vistas. Biotechnology. Summer 1991.
 - (2) The Agriculturist. Karen McCain. The Crying Game. Spring 1993.
 - (3) The Agriculturist. Lesli Caviness. Blooming onions in West Texas. Fall 1999.
 - (4) Landmarks. Spring 2000.
 - (5) Lubbock Home and Family. How to Grow the Best Tomatoes in West Texas. p. 16. Mar. 2000.
 - (6) The Agriculturist. Mixie Conner. What's New in Space? Spring 2001.
 - (7) ICASALS Newsletter. Texas Tech University Biannual Publication. Spring, Summer 2001. Vol. 32(2) 4, 11.
 - (8) Vistas. Space Age Terra firma. Texas Tech Research. Summer 2001. Vol. 9(2):35-39.
 - (9) The Agriculturist. Ag in the Classroom. Fall 2003:20-21.
 - d. Newspaper.
 - (1) The Cross Section. Research in Onion Production. Aug. 1993.
 - (2) Lubbock Avalanche-Journal. Tech Onion Research. Nov. 27, 1995.
 - (3) Lubbock Avalanche-Journal. Tech researchers find peace in green things. Dec. 15, 1999.

- (4) The University Daily. Tricia Jarmer. A Color All Their Own. Jul. 16, 1999.
 - (5) The University Daily. Rebecca Wilkinson. Internet classes aid disabled students. Nov. 22, 1999.
 - (6) The University Daily. Rebecca Wilkinson. Students offered plant therapy specialization. Dec. 2, 1999.
 - (7) Lubbock Avalanche-Journal / Vista. Create a Master Plan for Your Garden. May 12, 2000.
 - (8) The University Daily. Graduate Research. Nothing to cry about. Jul. 21, 2000.
 - (9) The University Daily. NASA tech study to make fresh food in space. Jul. 21, 2000.
 - (10) Abilene Reporter News. Business News. Texas Tech project aims to build better onions. Aug. 6, 2000.
 - (11) Vistas. Bioengineered Onion. 2000. 8(2):22-23.
 - (12) Lubbock Avalanche-Journal / Metro. Tech team plants seeds of future space travel working with NASA. Mar. 10, 2001.
 - (13) Lubbock Avalanche-Journal / OpEd. Tech's astronaut food. Mar. 17, 2001.
 - (14) Lubbock Avalanche-Journal. Article. Aug. 1, 2001
 - (15) The University Daily. Pumpkin Possibilities. Oct. 26, 2001.
 - (16) The University Daily. Andrew Bell. Space-age seedlings take root at Tech. Dec. 8. 2003.
 - (17) Lubbock Avalanche-Journal. Texas Expc Article. July 24, 2011
3. Manuscript Reviewer. 1991-present.
 - a. Genome. 1995.
 - b. HortScience. 1990-91. 1993. 1995. 1999.
 - c. HortTechnology. 1995.
 - d. In Vitro Plant. 1998.
 - e. J. American Society of Horticultural Science. 1990-95; 1998-2000.
 - f. Plant Cell Reports. 1990, 1992-96, 1998.
 - g. Plant Science. 1998.
 - h. HortTechnology. 2001, 2003, 2004, 2005
 - i. Theoretical and Applied Genetics. 2004, 2006, 2007.
 - j. Journal of International Genetics. 2007
 4. Proposal Reviewer.
 - a. BARD. 1995-present.
 - b. USDA National Competitive Research Initiative Grants Program. 1994-96.
 - c. NSF Georgian Competitive Grant Proposals. 2008, 2009, 2010.
 - d. Jordanian University. 2009.
 5. Radio Spot.

- a. KRFE. Interview with Guy Warren on AgEd show. Vegetables in Space. 2001.
 - b. Morning in Las Cruces Radio show. Lowenstein lecture series. April, 2005. Las Cruces, NM
6. TV Spot.
- a. South Plains Agricultural Report. Channel 13. 1993
 - b. President's Report. Channel 11. 1999.
 - c. Quercetin in onions. Channel 28. 1999.
 - d. Phytochemicals in Onion. Channels 13 and 28. Apr. 2000.
 - e. Genetic Engineering. Fox Channel 34. Nov. 2000.
 - f. Interviewed by Jalenne Rodriguez. Channel 13. 2001.
 - g. On Your Side, Texas Tech Report. Science It's a Girl's Thing and Mission to Mars. CBS Channel 13 News. Jul. 6, 2001.
 - h. Pumpkin, the perfect vegetable. Fox News 34. Oct. 2001.
 - i. Agroterrorism and plant safety. Fox News 34. Apr. 11, 2002
 - j. PSS Horticultural Sensory Gardens. Fox News 34. Apr. 13, 14, 2002.
 - k. Raider-Net News at TTU. Interviews after student sensory panel of EGC-grown onions. Apr. 23, 2003.
 - l. Raider-Net News of TTU. Space-age seedlings NASA onion project. TTU. Horticulture Gardens and Greenhouse. Dec. 18, 2003.
 - m. Fox 34 News. Personal interview on Mars mission and plants in space. TTU Horticulture Gardens and Greenhouse. Jan. 14, 2004.
 - n. TV Spot. Channels 13 and 28 News. Personal Interview. Tomato Shortage. 2004.
 - o. Spicing up Space. 2005. Fox News. Channel 34. Lubbock Bioscience initiative. . Sept
7. U.S. Department of Agriculture.
- a. Advisory Board for Plant Variety Protection. Washington, DC. Subcommittee on Appeals. Elected, 1989. Appointed, 1991.
 - b. Challenge Grants Program. Review Panel. Washington, DC. 1995-96.
 - c. USDA-ARS Program Reviewer, Michael Havey. 2006.
8. U.S. Department of Education Ronald E. McNair Achievement Program. Post-Baccalaureate Mentor. 1995-present.
9. Testimony before Texas House Agriculture and Livestock Committee. HB2443. Request of Representative Gary Walker, District 80. Mar. 22, 2001.
19. International Food Foundation.

- a. Scientific Expert for the International Food Information Council Foundation. 2004–2006.
 - b. Listed in the 2004-2006 Media Guide for Food Safety and Nutrition, International Food Information Council Foundation.
11. International Journal of Applied Agricultural Research.
 - a. Editorial Board. 2005.
 12. NSF Graduate Student Eligibility Consultant. December 2005.
 13. Judge for the Executive Women in Texas Government. 2006. EWTC Woman of the Year.
 14. Reviewer Site Design Studio LARC 3401. The Gardens of Nations Review. Lubbock, TX. TTU. December 14, 2006.

F. Community Service

1. Downtown Kiwanis.
 - a. Biotechnology Research and The Plant Stress Lab in the College of Agricultural Sciences and Natural Resources. 1993.
2. Heritage Baptist Church.
 - a. Finance Committee All Outreach. Director. 1996-97.
3. Horticulture Therapy Garden Program at the J. T. Montford Psychiatric Unit. 1996-97.
4. Advisor. Hydroponic Vegetable Culture.
 - a. Nelson Wofford, grower, Lubbock, TX. Jan.-Jun. 2002.
 - b. Tom Kurupas, grower, Mesa, AZ. to Lubbock TX., Aug.-Dec. 2002.
5. Lubbock Bible Church. Sunday School Teacher, Grades 1-6. 1998-2001.
6. Media Day. Presenter. 1993.
7. Papalote Commons Landscape Committee. 1994-2010.
8. Papalote Homeowners Association. President. 2009-2010.
9. Science Fair. Student Project. 1996, 1998.
10. Science Fair Mentor.
 - a. Jordan Saiz. Christ the King, 6th grade. Substrate effects on hydroponic culture of onions. 2004.

11. Workshop. You Can Be a Woman Botanist. Girl Scouts and others 7-12 years of age. Barnes & Noble. Lubbock, TX. Oct. 20, 2001.
12. Delegate to Republican State Convention. Jun., 2002; Jun., 2004.
13. LEDA consulting on collaboration with LISD (Lubbock Independent School District). 2005.
14. Lubbock Chorale. 1991-1997, 2002-2007. Executive Council 2006-2008. President-elect 2009-2011.
15. City of Lubbock Speaker at Rain Barrel Workshops. 2009, 2010.
16. Lubbock Arboretum speaker. May 2010, 2011.
17. Master Gardener's speaker. August, September 2011.

G. Professional Development:

1. DNA Technology Short Course. Indiana University. Bloomington, IN. 1995.
2. Semester sabbatical at Horticulture Research International. Wellesbourne, United Kingdom. 1997.
3. Multimedia Workshops--Designing web pages; WebCT; and Adobe Photo Shop. Teaching, Learning, and Technology Center. Texas Tech University. Lubbock, TX. 1998.
4. Multimedia Workshops--WebCT. Teaching, Learning, and Technology Center. Texas Tech University. Lubbock, TX. 1999.
5. Virtual Universities. Teaching, Learning, and Technology Center. Texas Tech University. Lubbock, TX. 2000.
6. Computer Short Courses. ATLC. Texas Tech University. 2001
7. Winning with the News Media Training. Clarence Jones. National Watermelon Promotion Board Training. Orlando, FL. Nov. 16, 2001.
8. Teaching Assessment. TLTC Seminar. Summer, 2004.
9. Computer based training. SkillSoft Corporation. SkillSoft. Office of the Computer Information Office. Sep. 2004.
10. Organized, for the first time, a Study Abroad Course, Gardens of Europe. 2004.

11. Researched garden listings and elements of landscape design for the new Study Abroad classes of The Gardens of Europe. 2004.
12. I am contributing a chapter on *Allium* phanerograms for the series Plant Genome and have been researching *Allium* speciation and genome analysis. 2004.
13. Work with Dr. John Mexal, NMSU, on a proposal to fund the Lowenstein Lecture series in which I and three other alumni are the invited fellows. 2004.
14. Comparison of active learning and traditional teaching methods. TLTC seminar. Feb. 2005.
18. College of the Overwhelmed Workshop. Student Health Services, Office of the Provost. October 5, 2005.
19. Conversational Italian. Preparation for professional presentation in Rome, Italy, at the International Conference on Environmental Science. Spring 2005.

H. Administrative Duties:

1. Project coordinator for the Plant Biology Team NASA EDU research project. 2000-08.
2. Sole Proprietor From the Garden. Market Garden, Seed Company, and Sales. 2006 to present.