

List of Publications: Joseph C. Neal

A. Refereed Journal Publications: (listed alphabetically, by year)

1. Neal, J. C. and D. F. Wagner. 1983. Physical and chemical properties of coal cinders as a container media component. *HortScience* 18:693-695.
2. Wagner, D. F. and J. C. Neal. 1984. Coal cinders with pine bark as azalea growing media. *J. Amer. Soc. Hort. Sci.* 109:822-826.
3. Neal, J. C. and W. A. Skroch. 1985. Effects of timing and rate of glyphosate applications on toxicity to selected woody ornamentals. *J. Amer. Soc. Hort. Sci.* 110:860-864.
4. Neal, J. C., W. A. Skroch, T.J. Monaco. 1986. Effects of plant growth stage on glyphosate absorption and transport in ligustrum (*Ligustrum japonicum*) and Blue Pacific juniper (*Juniperus conferta*). *Weed Science* 34:115-121.
5. Neal, J. C. and W. A. Skroch. 1987. Influence of timing and rate of glyphosate applications on conifer growth. *J. Environ. Hort.* 5(3):97-101.
6. Neal, J. C., A. F. Senesac, and A. Bing. 1989. Cultivar differences in postemergent graminicide phytotoxicity to junipers. *HortScience* 24(1):96-98.
7. Neal, J. C. 1990. Non-phenoxy herbicides for perennial broadleaf weed control in cool season turf. *Weed Technology.* 4:555-559.
8. Neal, J. C. and A. F. Senesac. 1990. Gallery (isoxaben) efficacy on summer-annual and winter-annual weeds of nursery and landscape ornamentals. *J. Environ. Hort.* 8:124-127.
9. Neal, J.C. and A.F. Senesac. 1990. Preemergent weed control in container and field grown woody nursery crops with isoxaben (Gallery). *J. of Environ. Hort.* 8:103-107.
10. Neal, J. C., M. P. Pritts, and A. F. Senesac. 1990. Evaluation of preemergent herbicide phytotoxicity to tissue culture-propagated 'Heritage' red raspberry. *J. Amer. Soc. Hortic. Sci.* 115:416:422
11. Neal, J. C., P. C. Bhowmik, and A. F. Senesac. 1990. Factors influencing fenoxaprop efficacy in cool-season turfgrass. *Weed Technology.* 4:272-278.
12. Hummel, N. W., M. C. Fowler, and J. C. Neal. 1990. Prodiamine effects on quality and rooting of Kentucky bluegrass turf. *Crop Science* 30:976-979.
13. Neal, J. C. and A. F. Senesac. 1991. Preemergent herbicide safety in container-grown ornamental grasses. *HortScience.* 26(2): 157-159.

14. Neal, J. C. 1993. Granular herbicides for postemergent control of broadleaf weeds in turf without 2,4-D. Proc. Intern. Turfgrass Conf. 7:238-245.
15. Neal, J. C. and A. F. Senesac. 1993. Slender speedwell (*Veronica filiformis*) control in cool-season turf with quinclorac. Weed Technology 7:390-395.
16. Rossi, F. S., J. C. Neal and T. H. Whitlow. 1993. An improved method for maintaining soil moisture levels for plant seedling research. Crop Science 33:868-870..
17. Rossi, F. S., J. M. DiTomaso, and J. C. Neal. 1993. Fate of fenoxaprop-ethyl applied to moisture stressed smooth crabgrass (*Digitaria ischaemum*). Weed Sci.41:335-340.
18. Rossi, F. S., J. C. Neal and A. F. Senesac. 1994. Alleviating the antagonistic effect of moisture stress on smooth crabgrass (*Digitaria ischaemum*) control with fenoxaprop. Weed Sci. 42:418-423.
19. Koo, S. J., J. C. Neal, and J. M. DiTomaso. 1994. Quinclorac-induced electrolyte leakage in seedling grasses. Weed Sci.:42:1-7.
20. Zhou, T. and J. C. Neal. 1995. Annual bluegrass (*Poa annua*) control with *Xanthomonas campestris* pv. *poannua* in New York State. Weed Technology 9:173-177.
21. Koo, S. J, J. C. Neal and J. M. DiTomaso. 1996. 3,7-Dichloroquinolinecarboxylic acid inhibits cell wall biosynthesis in maize roots. Plant Physiology 112:1383-1389.
22. Koo, S. J, J. C. Neal and J. M. DiTomaso. 1997. Mechanism of action of quinclorac in grass roots. Pesticide Biochemistry and Physiology 57:44-53.
23. Neal, J. C. 2000. Weed control in woody liner production. Proceedings of the Intern. Plant Propagator's Soc. 50:528-531.
24. Kim, Tae-Joon and J. C. Neal. 2001. Inter- and intraspecific variation in smooth (*D. ischaemum*) and large crabgrass (*D. sanguinalis*). Korean Journal of TurfgrassScience 2001. Vol. 15(3):127-136
25. Krings, A. and J. C. Neal. 2001. A *Scutellaria* (Lamiaceae) new to North Carolina and a key to the small-flowered Carolina congeners. SIDA 19(3):735-739.
26. Krings, A. and J. C. Neal. 2001. South American skullcap (*Scutellaria racemosa* Pers., Lamiaceae) in the southeastern United States. Sida 19 (4): 1171-1179.
27. Kim, T. J., J. C. Neal, J. M DiTomaso, and F. S. Rossi. 2002. A survey: the

- distribution and importance of crabgrasses (*Digitaria* spp.) in the United States. *Weed Technol.* 16: 239-242
28. Judge, C. A., J. C. Neal, and R. B. Leidy. 2003. Trifluralin (Preen) dissipation from the surface layer of a soilless plant growth substrate. *Journal of Environmental Horticulture* 21:216-222
 29. Neal, J. C. 2003. Biology and management of nursery weeds. Combined Proceedings of the International Plant Propagator's Society 53:8-11
 30. Penny, G. M. and J. C. Neal. 2003. Light, temperature, seed burial, and mulch effects on mulberry weed (*Fatoua villosa*) seed germination. *Weed Technology* 17:213-218
 31. Bilderback, T. E. and J. C. Neal. 2004. Wulpak used as a mulch or an amendment for nursery potting substrates. *Acta Horticulturae* 644:139-143
 32. Burnell, K. D., F. H. Yelverton, J. C. Neal, T. W. Gannon and J. S. McElroy. 2004. Control of silvery-thread moss (*Bryum argenteum* Hedw.) in creeping bentgrass (*Agrostis palustris* Huds.) putting greens. *Weed Technol.*18(3):560-565
 33. Judge, C. A., J. C. Neal, and J. B. Weber. 2004. Dose and concentration responses of common nursery weeds to Gallery, Surflan and Treflan. *Journal of Environmental Horticulture* 22:106-112.
 34. McElroy, J. S., F. H. Yelverton, J. C. Neal, and T. W. Rufty, Jr. 2004. Influence of photoperiod and temperature on vegetative growth and development of Florida betony (*Stachys floridana*). *Weed Science* 52(2):267-270.
 35. Neal, J. C., N. D. Williams, and E. B. Nelson. 2004. Evaluating off-target movement of *Xanthomonas campestris* pv. *poannua* following application as a biocontrol agent for *Poa annua* on golf turf. pp. 301-304 In: Cullen, J.M., Briese, D.T., Kriticos, D.J., Lonsdale, W.M., Morin, L. and Scott, J.K. (eds.) Proceedings of the XI International Symposium on Biological Control of Weeds. CSIRO Entomology, Canberra, Australia
 36. Judge, C. A., J. C. Neal. and J.F. Derr. 2005. Preemergence and postemergence control of Japanese stiltgrass (*Microstegium vimineum*). *Weed Technol.* 19:183-189
 37. Judge, C. A., J. C. Neal. and J.F. Derr. 2005. Response of Japanese Stiltgrass (*Microstegium vimineum*) to application timing, rate, and frequency of postemergence herbicides. *Weed Technol.* 19:912-917.
 38. Judge, C. A. and J. C. Neal. 2006. Early postemergence control of nursery weeds with Broadstar, OH2 and Snapshot TG. *J. Environ. Hort* 24(2):105-108

Manuscripts in Press:

Manuscripts in review:

Post, A. R., A. Krings, and J. C. Neal. 2007. Lesser Celandine (*Ranunculus ficaria* L.) and its five subspecies in the United States. *J. of Botanical Institute of Texas* (formerly SIDA) (in review)

B. Research Bulletins: none

C. Research Reports:

Neal, J. C. and A. F. Senesac. Weed Control in Turfgrass and Ornamentals, annual data summary. Volumes 1-12, 1985-1996.

Neal, J. C. and R. E. Wooten. Weed Control in Ornamentals and Christmas Trees. Annual research reports, 1996-2005

D. Extension Publications:

1. Bulletins: Reviewed and Edited Cooperative Extension Bulletins

Neal, J. C. 1988. Weed Control. pp. 11-12 *In: Athletic Field Maintenance*. Cornell Cooperative Extension Information Bulletin 213.

Neal, J. C., E. A. Cope, and A. F. Senesac. 1993. A guide to the identification and control of the weedy speedwells. Cornell Cooperative Extension Information Bulletin 141IB229. 29 pages.

J. C. Neal, J. F. Derr, A. F. Senesac and W. A. Skroch, 1999. Weed Control Suggestions for Christmas Trees, Woody Ornamentals, and Flowers. NC Cooperative Extension publication AG-427. (currently under revision)

Evans E. D. and J. C. Neal. 1999. Weed Control chapter *in* Master Gardener Training Manual. NC Cooperative Extension Service.

Bilderback, T.E., A. Lebude, S. Warren, and J. Neal. 2006. Field Nursery Crops Best Management Practices

2. Horticulture Information Leaflets: (peer reviewed)

HIL449 Weed Management In Conifer Seedbeds, 1999

HIL570 Greenhouse Weed Control; 1997; revised 1999, 2006

HIL644 Weed Management in Annual Color Beds, 1998, revised 2006

HIL647 Controlling Nutsedges in Landscape Plantings, 1998

- HIL648 Postemergence, Non-Selective Herbicides for Landscapes and Nurseries, 1998
- HIL649 Weed Management in Conifer Seedbeds and Transplant Beds, 1998
- HIL900 Musk Thistle (WeedInfo fact sheet 00), 1998
- HIL901 Canada Thistle (WeedInfo fact sheet 01), 1998
- HIL902 Mugwort (WeedInfo fact sheet 02), 1998
- HIL903 Mulberry Weed (WeedInfo fact sheet 03), 1998
- HIL904 Florida Betony, (WeedInfo fact sheet 04), 1999
- HIL905 Japanese stiltgrass (WeedInfo fact sheet 05) 2002, revised 2004

3. Slide Sets / Powerpoint presentations (Peer reviewed):

- Herbicide application. 48 slides plus script. 1986.
- Plan Before You Plant: a 5-step process for developing a weed management plan. 56 slides plus script. 1992.
- Landscape Weeds-- the top 50 landscape weeds in NC. 80 slides and narrative. 2001
- Weeds -- a training module to accompany the Master Gardener's Training Manual. 2004
- Alternatives to Invasive Ornamental Plants. 2006

4. Other Extension Newsletter articles and fact sheets

Manuals (peer reviewed)

Neal, J. C. 2001. Principles of nursery weed management. Section 11 In: Bilderback, T. ed. Nuts and bolts of the nursery industry -- a reference and resource manual 2001. N. C. Assoc. of Nurserymen, Raleigh

Neal, J. C. and I. Gordon. 2003. Common weeds of container nurseries and their control. Centre for Native Floriculture, University of Queensland, Gatton (Australia). 8 p

Neal, J. C. and I. Gordon. 2004. Weed management in woody cut flower plantains. Centre for Native Floriculture, University of Queensland, Gatton (Australia). 8 p

Neal, J. C. and J. F. Derr. 2005. Weeds of container nurseries in the United States. NC Nurserymen's Assoc. 16 p.

Technical report (peer reviewed)

Neal, J. C. 2003. Understanding and managing nursery weeds. Nursery and Garden Industries of Australia Technical Nursery Papers No. 11. 5 p. on-line publication <http://www.ngia.com.au/np/2003No11/2003No11.html>

Annual revisions to chemical pest control guidelines

Neal, J. C. 1985-1996. Weed Management. In: Cornell pest control recommendations for commercial turfgrass management.

Neal, J. C., and A. F. Senesac. 1985-1996. Weed Management. In: 1996 Cornell

Recommendations for pest management for commercial production and maintenance of trees and shrubs.

Neal, J. C. 1985-1996. Recommendations for weed control in florist crops. In: Cornell recommendations for florist crops; Part II: pest management.

Neal, J.C. 1996. Weed Management in Christmas Trees. In: 1996 Cornell Recommendations for Pest Management in Christmas Trees.

Neal, J. C. 1996. Weed Control Sections In: Pest Management Around The Home, Cornell Cooperative Extension Misc. Bull. No. 74.

Neal, J. C. 1996-present. Chemical weed control. In: North Carolina Agricultural Chemicals Manual. (revised annually).

Extension Newsletters and Fact Sheets

Cornell University Turfgrass Times, Quarterly Turfgrass Newsletter initiated in 1990.

Feature articles:

Crabgrass Control; Vol. 1, No. 1 (1990)

Conducting a Bioassay for Herbicide Residues; Vol. 2, No. 2 (1991)

Annual Bluegrass Biology and Control; Vol. 3, No. 1 (1993)

The drought of 1995 and weed control in 1996; Vol. 7, No. 1 (1996)

Ecological aspects of crabgrass infestations in turf (with T.J. Kim and F.S. Rossi; Vol. 7, No. 3 (1997))

Each issue (1990-1996): contributor to the "Pest Watch" section. Timely topics have included off-season weed management decisions, optimum timing for preemergent and postemergent crabgrass control, yellow nutsedge control, autumn herbicide applications for broadleaf weed control, late fall preemergent herbicide applications for spring germinating weeds, weed control in newly seeded turf, winter annual weed control, weed control calendar, and weed scouting procedures.

Weed Facts, A Cornell Cooperative Extension Weed Management Fact Sheet Series.

- No. 1. Weed Management Guide for Herbaceous Ornamentals, A.F. Senesac and J.C. Neal, 1991, 12 p. Over 2000 copies sold.
- No. 2. Greenhouse Weed Control, J.C. Neal, 1991, 2 p.
- No. 3. Conducting a Bioassay for Herbicide Residues, J.C. Neal, 1991, 2 p. Also reprinted in the North Carolina Turfgrass Association Newsletter. (<http://www.cals.cornell.edu/dept/flori/pubs.html#WeedFacts>)
- No. 4. Woody Weeds of Landscape and Nurseries - Identification and Control, R.H. Uva and J.C. Neal, 1992, 8 p.
- No. 5. Plan Before You Plant - A 5-Step Process for Development a Landscape Weed Management Plan, J.C. Neal, 1992, 8 p. Reprinted in the Ohio Nurserymen's Assoc. Newsletter, the NCSU Landscape Newsletter, NC Turfgrass Assoc. Newsletter and Nursery Notes. Slide set available.

- (<http://www.cals.cornell.edu/dept/flori/pubs.html#WeedFacts>)
- No. 6. Weedy Grasses of the Northeastern United States, R.H. Uva and J.C. Neal, 1993, 24p.
 - No. 7. Annual Bluegrass Biology and Control, N.D. Williams and J.C. Neal, 1993, 4p.
 - No. 8. Turfgrass Weed Management -- An IPM Approach, J.C. Neal, 1994, 12 p.

NCSU On-line Christmas Tree Newsletter

Product Update: Garlon 3A in Christmas Tree Plantations; May/June 1997
Update on Roundup for Fraser Fir Production (or, glyphosate by any other name is not necessarily Roundup); July/August 1997

NCSU Extension Intra-net, Horticultural Science Agents= Toolbox'

Pennant 5G no longer available
Herbicide Update: Deciduous trees added to the Goal 2E label
Dodder control in landscape beds
Wiper-Applications of Roundup-Pro

NCSU email updates:

Weekly Word on Weeds: during the growing season from May through September weekly updates were sent out to field faculty on timely topics B weeds that were germinating, proper time to control certain weeds, etc.

E. Book and Book Chapters:

1. Book:

Uva, R. H., J. C. Neal and J. M. DiTomaso. 1997. Weeds of the Northeast. Cornell University Press, New York. 396pp.

2. Book Chapters:

Neal, J. C. 1994. Turfgrass Weed Management -- An IPM Approach. pp. 275-292 in A.R. Leslie, ed. Integrated Pest Management for Turf and Ornamentals, Lewis Publishers, Boca Raton, FL.

Neal, J. C. 1994. Plan Before You Plant: A Five Step Process for Developing a Landscape Weed Management Plan. pp. 293-300 in A.R. Leslie, ed. Integrated Pest Management for Turf and Ornamentals, Lewis Publishers, Boca Raton, FL.

Senesac, A. F. and J. C. Neal. 1994. Weed Management Guide for Herbaceous Ornamentals. pp. 301-313 in A.R. Leslie, ed. Integrated Pest Management for Turf and Ornamentals, Lewis Publishers, Boca Raton, FL.

Neal, J. C. 1995. Weed Management in Turf and Arthropod Interactions. pp. 119-121 in: R.L. Brandenburg, and M.G. Villani, eds. Handbook of Turfgrass Insect Pests. A handbook

of the Entomological Society of America..

F. Abstracts (listed alphabetically, by year):

1. Wagner, D. F. and J. C. Neal. 1982. Coal cinders evaluated as container media components. *HortSci.* 17(3):486.
2. Neal, J. C. and W. A. Skroch. 1984. Responses of five ground cover species to applications of glyphosate; effects of rate and time. *Proc. Weed Sci. Soc. Amer.* 24:25-26.
3. Neal, J. C. and W. A. Skroch. 1984. Rate and time effects on glyphosate toxicity to ornamentals. *Proc. So. Weed Sci. Soc.* 37:326.
4. Neal, J. C. and W. A. Skroch. 1984. Comparative weed control for container-grown compacta holly. *Proc. So. Nurs. Assoc. Res. Conf.* 29:240-243.
5. Neal, J. C. and W. A. Skroch. 1984. Roundup tolerance studies on ornamentals. *Proc. So. Nurs. Assoc. Res. Conf.* 29:9-10.
6. Skroch, W. A. and J. C. Neal. 1984. Responses of Fraser fir, Norway spruce and hemlock to glyphosate: effects of rate and time of application. *Proc. Weed Sci. Soc. Amer.* 24:25.
7. Neal, J. C. and W. A. Skroch. 1985. Growth stage effects on glyphosate absorption and transport in ligustrum and juniper. *Proc. Weed Sci. Soc. Amer.* 25:35-36.
8. Neal, J. C., A. Senesac, and A. Bing. 1986. Influence of crabgrass growth stage on efficacy of fenoxaprop and tridiphane. *Proc. Northeastern Weed Sci. Soc.* 40:284-285.
9. Neal, J. C., A. Senesac, and A. Bing. 1986. Varietal differences in juniper tolerance of postemergent graminicides. *HortSci.* 21(3):281.
10. Senesac, A., J. Neal, and A. Bing. 1986. Differential response of bedding plant cultivars to soil applied herbicides. *HortSci.* 21(3):281.
11. Neal, J. C. and A. F. Senesac. 1987. Weed management and competition in first year field grown ornamentals. *Proc. Northeastern Weed Sci. Soc.* 41:192.
12. Neal, J. C. and A. F. Senesac. 1987. Factors influencing fenoxaprop efficacy. *Proc. Northeastern Weed Sci. Soc.* 41:222.
13. Senesac, A. F. and J. C. Neal. 1987. Effects of turfgrass herbicides on ornamentals.

- Proc. Northeastern Weed Sci. Soc. 41:243.
14. Neal, J. C. 1988. Yellow nutsedge control in cool-season turfgrass. Proc Weed Sci. Soc. Amer. 28-30.
 15. Neal, J. C. and M. P. Mascianica. 1988. Phenoxy and non-phenoxy herbicides for controlling dandelion, plantain, clover, and veronica. Proc. Northeastern Weed Sci. Soc. 42:183-184.
 16. Neal, J. C., M. P. Pritts, and A. F. Senesac. 1988. Sensitivity of tissue culture propagated raspberry plants to preemergence herbicides. Proc. Weed Sci. Soc. Amer. 28:93-94.
 17. Neal, J. C. and A. F. Senesac. 1988. Broadleafed weed control in woody ornamentals with isoxaben. Proc. Northeastern Weed Sci. Soc. 42:124-125.
 18. Rossi, F. S., J. C. Neal, and A. F. Senesac. 1988. Tank mixing with preemergent materials to enhance fenoxaprop efficacy. Proc. Northeastern Weed Sci. Soc. 42:150-154.
 19. Senesac, A. F., M. Macksel, and J. C. Neal. 1988. Response of tulip cultivars to postemergent graminicides. Proc. Northeastern Weed Sci. Soc. 42:141.
 20. Senesac, A. F. and J. C. Neal. 1988. Tolerance of several container and field grown herbaceous perennials to herbicides. Proc. Weed Sci. Soc. of Amer. 28-33.
 21. Neal, J. C. 1989. *Veronica filiformis* control in cool season turfgrasses. Proc. Northeastern Weed Sci. Soc. 43:88-89.
 22. Neal, J. C. 1989. Controlling broadleaf plantain (*Plantago major* L.), dandelion (*Taraxacum officinale* Weber in Wiggers), and white clover (*Trifolium repens* L.) with phenoxy and nonphenoxy tank mixes. Proc. Weed Sci. Soc. Amer. 29:34
 23. Neal J. C. and M. Pritts. 1989. Sensitivity of tissue-cultured raspberries to preemergent herbicides. HortScience 24(2):218 (abstr)
 24. Kearns, C. M., J. C. Neal, T. H. Whitlow, and A. F. Senesac. 1989. The influence of ground cover management systems and stress components on growth of woody ornamentals. Proc. Northeastern Weed Sci. Soc. 43:115.
 25. Rossi, F. S., J. C. Neal, and A. F. Senesac. 1989. Comparison of seasonal herbicide application timings for crabgrass (*Digitaria* spp.) control in cool-season turfgrass. Proc. Weed Sci. Soc. Amer. 29:34-35.
 26. Rossi, F. S., J. C. Neal, and A. F. Senesac. 1989. Effect of crabgrass growth stage on MON 15151. Proc. Northeastern Weed Sci. Soc. 43:95.

27. Rossi, F. S., J. C. Neal, and A. F. Senesac. 1989. Methods for enhancing fenoxaprop efficacy under drought stress. Proc. Northeastern Weed Sci. Soc. 43:82.
28. Senesac, A. F., and J. C. Neal. 1989. Herbicide tolerance and weed control in several container grown ornamentals. Proc. Northeastern Weed Sci. Soc. 43:107.
29. Senesac, A. F., and J. C. Neal. 1989. Tolerance of field-grown annual cut flower species to preemergent herbicides. Proc. Weed Sci. Soc. Amer. 29:33.
30. Neal, J. C., K. W. Mudge, and C. M. Kearns. 1990. Quinclorac (BAS 514 00H) - induced ethylene synthesis in susceptible and tolerant species. Proc. Northeastern Weed Sci. Soc. 44:51.
31. Neal, J. C. and A. F. Senesac. 1990. Preemergent herbicides for container-grown ornamental grasses. Proc. Weed Sci. Soc. Amer. 30:31.
32. Kearns, C. M., J. C. Neal, and A. F. Senesac. 1990. The identification and control of perennial *Veronica* species in turf. Proc. Northeastern Weed Sci. Soc. 44:121.
33. Rossi, F. S. and J. C. Neal. 1990. Absorption and translocation of fenoxaprop in smooth crabgrass, *Digitaria ischaemum* (Schreb. ex. Schweig.). Proc. Weed Sci. Soc. Amer. 30:69.
34. Rossi, F. S. and J. C. Neal. 1990. Evaluation of goosegrass control strategies for creeping bentgrass putting green turf. Proc. Northeastern Weed Sci. Soc. 44:112.
35. Senesac, A. F., J. C. Neal, and A. Bing. 1990. Five year summary of bedding plant tolerance to preemergence herbicides. Proc. Northeastern Weed Sci. Soc. 44:102.
36. Senesac, A. F. and J. C. Neal. 1990. Tolerance of bedding plants to preemergent herbicides. Proc. Weed Sci. Soc. Amer. 30:30.
37. Neal, J. C. and A. F. Senesac. 1991. Groundivy and healall control in turf. Proc. Northeastern Weed Sci. Soc. 45:120.
38. Neal, J. C. and A. F. Senesac. 1991. Tank mixes for postemergent smooth crabgrass (*Digitaria ischaemum*) control in turf - enhancement and antagonism. Proc. Weed Sci. Soc. of Amer. 31:26.
39. Rossi, F. S. and J. C. Neal. 1991. Fate of fenoxaprop applied to moisture stressed crabgrass (*Digitaria ischaemum*). Proc. Weed Sci. Soc. of Amer. 31:56.
40. Rossi, F. S. and J. C. Neal. 1991. Crabgrass control in golf course fairway turf. Proc. Northeastern Weed Sci. Soc. 45:114.

41. Senesac, A. F. and J. C. Neal. 1991. Reduced rates of isoxaben for long term weed control in woody ornamentals. Proc. Weed Science Soc. of America. 31:25.
42. Senesac, A. F. and J. C. Neal. 1991. Tolerance of direct seeded outflowes to preemergence herbicides. Proc. Northeastern Weed Sci. Soc. 45:78.
43. Koo, S. J. and J. C. Neal. 1992. Electrolyte leakage as a physiological effect induced by BAS 514..H treatment of smooth crabgrass [*Digitaria ischaemum* (Schreb. ex Schweig) Schreb. ex Muhl] seedlings. Proc. Weed Sci. Soc. Amer 32:91.
44. Koo, S. J., N. D. Webber, and J. C. Neal. 1992. Variability in the efficacy of BAS 514..H on crabgrass. Proc. Northeastern Weed Sci. Soc. 46:14.
45. Neal, J. C. and A. F. Senesac. 1992. Effects of herbicide residues on the establishment of oat cover crops in nursery stock. Proc. Northeastern Weed Sci. Soc. 46:103
46. Neal, J. C. and J. F. Osmeloski. 1992. Dithiopyr residue effects on turfgrass seedling establishment. Proc. Northeastern Weed Sci. Soc. 46:133
47. Neal, J. C. and J. F. Osmeleski. 1992. Granular formulations for postemergent broadleaf weed control in cool-season turf. Proc. Weed Sci. Soc. Amer. 32:28.
48. Senesac, A. F. and J. C. Neal. 1992. Isoxaben longevity for field grown ornamentals. Proc. Northeastern Weed Sci. Soc. 46:102.
49. Webber, N. D., E. B. Nelson, and J. C. Neal. 1992. Biological control of annual bluegrass (*Poa annua* var. *reptans*) with *Xanthomonas campestris* pv. *poannua*. Proc. Northeastern Weed Sci. Soc. 46:19.
50. Webber, N. D. and J. C. Neal. 1992. Movement of the bacterium, *Xanthomonas campestris* pv. MSU-450, in turf after application as a biological control agent for annual bluegrass (*Poa annua* L. *reptans*). Proc. Weed Sci. Soc. Amer. 32:85.
51. Koo, S. J. and J. C. Neal. 1993. Smooth crabgrass seed source and growth stage effects on quinclorac efficacy. Proc. Northeastern Weed Sci. Soc. 47:93.
52. Neal, J. C. 1993. Safety of herbicides on overseeded and newly seeded turfgrass. Proc. Northeastern Weed Sci. Soc. 47:134.
53. Neal, J. C. and A. F. Senesac. 1993. Preemergent tank mixes with MON13200 for control of summer annuals, winter annuals and yellow nutsedge. Proc. Northeastern Weed Sci. Soc. 47:65.

54. Uva, R. H., A. F. Senesac, and J. C. Neal. 1993. Identification, biology, and control of yellow goat's beard, an increasing problem in nursery crops. Proc. Northeastern Weed Sci. Soc. 47:68.
55. Uva, R. H. and J. C. Neal. 1993. Development of an identification manual for weeds of the northeastern United States. Proc. Northeastern Weed Sci. Soc. 47:9.
56. Koo, S. J. and J. C. Neal. 1994. Smooth crabgrass seed source and growth stage effects on quinclorac efficacy. Proc. Northeastern Weed Sci. Soc. 48:81-82.
57. Koo, S. J., J. C. Neal, and J. M. DiTomaso. 1994. Quinclorac inhibits cell wall biosynthesis in corn (*Zea mays* L.) roots. Proc. Weed Sci. Soc. Amer. 34:52.
58. Macksel, M. T., A. F. Senesac and J. C. Neal. 1994. Herbicide contaminant injury symptoms on greenhouse grown poinsettia and geranium. Proc. Northeastern Weed Sci. Soc. 48:9.
59. Morse, C. C. and J. C. Neal. 1994. Granular postemergent crabgrass control. Proc. Northeastern Weed Sci. Soc. 48:121.
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2. Directed

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