80th Annual Meeting of the Northeastern Weed Science Society 2026

Proceedings - Volume 80

Hershey, Pennsylvania, USA
5-8 January 2026

ISBN: 979-8-3313-4017-9

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2026) by Northeastern Weed Science Society (NEWSS)
All rights reserved.

Printed with permission by Curran Associates, Inc. (2026)

For permission requests, please contact Northeastern Weed Science Society (NEWSS)
at the address below.

Northeastern Weed Science Society (NEWSS)
P.O. Box 25
Woodstown, NJ 08098
USA

Phone: 315-209-7580

northeasternweedscience@hotmail.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Contents

2025-2026 NEWSS EXECUTIVE COMMITTEE – OFFICERS……...……xii

2025-2026 NEWSS COMMITTEES – CHAIRS……...……xiii

2026 NEWSS PROGRAM COMMITTEE……...xv

2026 NEWSS AWARDS…….……..….....xvi

2026 NEWSS CONTEST WINNERS……...…..….xviii

2026 NEWSS ABSTRACTS…….…….xix

Abstracts are listed in sequence as per numbers

01 - IMPROVING WEED CONTROL IN HEMP: THE VALUE OF SEED SIZE AND FLUORESCENT SEED COATING. Lynn Sosnoskie[1]; [1]Cornell AgriTech - Cornell University 1

02 - SUSCEPTIBILITY OF WHITE DUTCH CLOVER AND DANDELION TO TULIPALIN, A NATURAL HERBICIDE. Jeanne Peters[1], Matthew Elmore[1]; [1]Rutgers University 2

03 - STREAMSIDE SYMPHONY: CHARACTERIZING URBAN STREAM SOUNDSCAPES IMPACTED BY RESTORATION AND INVASION. Gabrielle Ripa[1], Leighton Reid[1], Meryl Mims[1], Stacy Endriss[1], Jacob Barney[1]; [1]Virginia Tech N/A

04 - ELECTRICAL WEEDING IN AGRONOMIC AND HORTICULTURAL ROW CROPS. Lynn Sosnoskie[1]; [1]Cornell AgriTech 4

05 - IMPACT OF WATERLOGGING ON WEED SEEDLING EMERGENCE. Naomi Graseck[1], Caroline Marschner[1], Antonio DiTommaso[1]; [1]Soil and Crop Sciences, Cornell University 5

06 - GREEN ONION RESPONSE TO PRE AND POST HERBICIDES. Matthew Cutulle[1], Harrisson Campbell[1]; [1]Clemson University 6

07 - 2025'S MOST COMMON AND TROUBLESOME WEEDS IN U.S. AND CANADIAN AGRONOMIC AND SPECIALTY CROPS. Aleah Butler-Jones[1], Matthew Woolard[2], Lee Van Wychen[3]; [1]Cornell University, [2]Texas Tech University, [3]Weed Science Society of America 7

08 - SEEDBANK-BASED WEED MANAGEMENT RECOMMENDATIONS. Bryan Brown[1], Sam Anderson[2], Kassady Cerny[1], Antonio DiTommaso[2], Lori Koenick[2], Vipan Kumar[2], Lynn Sosnoskie[2]; [1]Cornell IPM, Cornell University, [2]Cornell University 8

09 - EFFICACY OF HERBICIDES AND APPLICATION METHODS IN CONTROLLING WINGED EUONYMUS (EUONYMUS ALATUS). Ethan Paine[1], Jatinder Aulakh[1]; [1]Connecticut Agricultural Experiment Station 9

10 - STRUCTURAL EQUATION MODELS REVEAL SOURCES OF VARIATION IN COVER CROP-WEED INTERACTIONS. Lilly Sencenbaugh[1], Eugene Law[2], John Wallace[1]; [1]The Pennsylvania State University, [2]The Ohio State University 10

11 - AGRIVOLTAIC SYSTEM EFFECTS ON WEED COMMUNITY COMPOSITION IN A SOYBEAN CROPPING SYSTEM. Dana Russell[1], Caroline Marschner[1], Jinwook Kim[1], Matthew Sturchio[2], *Antonio DiTommaso[1]; [1]Department of Crop and Soil Sciences, Cornell University, [2]Department of Natural Resources and the Environment, Cornell University 11

12 - PREEMERGENCE WEED CONTROL IN NURSERY CROPS AND CHRISTMAS TREES WITH SP1190. Joseph Neal[1], Chris Harlow[1], Sam Marshall[2]; [1]North Carolina State University, [2]North Carolina Cooperative Extension 12

13 - PRECISION WEED CONTROL: VERDANT ROBOTICS SHARPSHOOTER® PERFORMANCE IN SPINACH. Thierry Besançon[1], Lynn Sosnoskie[2]; [1]Rutgers University, [2]Cornell University 13

14 - EFFECTIVE HERBICIDE STRATEGIES FOR WEED CONTROL IN GRAIN SORGHUM (SORGHUM BICOLOR) IN NEW YORK. Vipan Kumar[1], Midhat Tugoo[1], Henrique Scatena[1], Preetaman Bajwa[1]; [1]Cornell University 14

15 - WINTER ANNUAL WEED CONTROL OF CLOMAZONE AND S-METOLACHLOR IN A CARINATA (BRASSICA CARINATA) SYSTEM. Avi Goldsmith[1], Edmilson Almeida[2], Ramon Leon[1]; [1]North Carolina State University, [2]Federal University of Maranhão 15

16 - VEGETABLE CROP SAFETY WITH COMMON SOIL-APPLIED HERBICIDES. Mark VanGessel[1], Barbara Scott[1], Claudio Rubione[1]; [1]University of Delaware N/A

17 - EVALUATING LENGTH OF RESIDUAL WEED CONTROL WITH HERBICIDE AND COVER CROP INTEGRATION USING SEE & SPRAY™ TECHNOLOGY. Diego Contreras[1], Jackson Alsdorf[1], Colden Bradshaw[1], Ronel Argueta[1], Brock Dean[1], Charles Cahoon[1], Wesley Everman[2]; [1]North Carolina State University, [2]Iowa State University 17

18 - CONTINUED MONITORING OF WEEDS FOUR YEARS AFTER ESTABLISHMENT OF FLOWER STRIPS ADJACENT TO AGRICULTURAL LAND. Rebecca Stup[1], Sophie Westbrook[2], Antonio DiTommaso[1]; [1]Cornell University, [2]Kansas State University 18

19 - CAN POSTEMERGENCE HERBICIDE APPLICATIONS BE DELAYED IN CORN WHEN USING MULTIPLE INTEGRATED WEED MANAGMENT STRATEGIES? Jackson Alsdorf[1], Brock Dean[1], Diego Contreras[1], Colden Bradshaw[1], Zachary Taylor[1], David Jordan[1], Charles Cahoon[1]; [1]North Carolina State University 19

20 - CONFIRMATION AND MANAGEMENT OF GLYPHOSATE-RESISTANT HORSEWEED (CONYZA CANADENSIS) FROM NEW YORK AND CONNECTICUT. Yunqi Chen[1], Vipan Kumar[1], Jatinder Aulakh[2], Erik Smith[3]; [1]Cornell University, [2]Connecticut Agricultural Experiment Station, [3]Cornell Cooperative Extension 20

21 - EVALUATING LATE-SEASON BROADCASTED CEREAL RYE FOR ITALIAN RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM) SUPPRESSION. Colden Bradshaw[1], Charlie Cahoon[1], Wesley Everman[2], Diego Contreras[1], Brock Dean[1], Jackson Alsdorf[1], Luke Szoch[1], Ronel Argueta[1], Zachary Taylor[1]; [1]North Carolina State University, [2]Iowa State University 21

22 - IS EFFICACY OF GLYPHOSATE AFFECTED BY WATERLOGGED SOIL CONDITIONS? Shang Lyu[1], Breawna Smith[1], Vipan Kumar[1], Antonio DiTommaso[1]; [1]Soil and Crop Sciences, Cornell University 22

23 - GLYPHOSATE-RESISTANT WATERHEMP (AMARANTHUS TUBERCULATUS) CONTROL IN CORN WITH PRE AND POST HERBICIDES. Preetaman Bajwa[1], Vipan Kumar[2], Erik Smith[3], Matthew Ryan[4], Antonio DiTommaso[4], Wendong Zhang[2]; [1]Graduate Research Assistant, [2]Associate Professor, [3]Regional Ag Team Leader/Field Crop Specialist, [4]Professor 23

24 - CONFIRMATION AND MANAGEMENT OF MULTIPLE HERBICIDE-RESISTANT WATERHEMP (AMARANTHUS TUBERCULATUS) IN NEW YORK. Midhat Tugoo[1], Vipan Kumar[1], Mike Stanyard[1], Bryan Brown[1], Antonio DiTommaso[1], Lynn Sosnoskie[1]; [1]Cornell University 24

25 - EFFICACY OF PRE- AND POST-EMERGENCE HERBICIDE PROGRAMS FOR RED SORREL (RUMEX ACETOSELLA) CONTROL IN HIGHBUSH BLUEBERRY. Carrie Mansue[1], Wesley Bouchelle[1], Thierry Besançon[1]; [1]Rutgers University 25

26 - IMPACT OF ELECTRIC WEED CONTROL VERSUS CULTIVATION ON WEED AND SOIL HEALTH IN AN ESTABLISHED ORGANIC ORCHARD. Aleah Butler-Jones[1], Adam Thomas[1], John Owens[1], Gregory Peck[1], Kyle Wickings[1], Brad Hanson[2], Marcelo Moretti[3], Lynn Sosnoskie[1]; [1]Cornell University, [2]University of California, Davis, [3]Oregon State University 26

27 - A MACHINE LEARNING APPROACH TO PREDICT SPRAY DRIFT FROM UNMANNED AERIAL SYSTEM APPLICATIONS. Fatemeh Esmaeilbeiki[1], Vijay Singh[2], Daniel E Martin[3]; [1,2]Virginia Tech, [3]Pluvium, LLC 27

28 - ANNUAL BLUEGRASS SUPPRESSION IN A CREEPING BENTGRASS FAIRWAY: PLANT GROWTH REGULATORS, HERBICIDES, AND NITROGEN REGIMENS. Emmanuel Nwachukwu[1], Daniel Tuck[1], Matthew Elmore[1]; [1]Rutgers, The State University of New Jersey 28

29 - IMPROVING THE PERFORMANCE OF SUBLIME HERBICIDE ON DIFFICULT-TO-CONTROL TURFGRASS WEEDS. Samuel Crawford[1], Shawn Askew[1], Bret Corbett[2], Juan Romero[3], Navdeep Godara[4]; [1]Virginia Tech, [2]Albaugh Specialty, [3]Ecorobotix, [4]NC State University 29

30 - WEED IMAGERY DATABASE: OPPORTUNITIES FOR WEED DETECTION AND MANAGEMENT. Rutvij Wamanse[1], Vijay Singh[1], Robert Cooley[1], Dhiraj Srivastava[2]; [1]Virginia Tech Eastern Shore AREC, [2]UF Health 30

31 - CULTURAL PRACTICES AND PGRS AFFECT COMPETITION OF ELEUSINE INDICA ECOTYPES IN TURFGRASS. Katherine Tuck[1], Matthew Elmore[1]; [1]Rutgers University 31

32 - IMPLICATIONS OF DROUGHT STRESS ON GOOSEGRASS (ELEUSINE INDICA) RESPONSE TO POSTEMERGENCE HERBICIDES. Brock Dean[1], Charlie Cahoon[1], Josh Heitman[1], David Jordan[1], Erika Bucior[1], Zachary Taylor[1], Diego Contreras[1], Colden Bradshaw[1], Jackson Alsdorf[1]; [1]North Carolina State University 32

33 - TURFGRASS WEED CONTROL VIA LASER RADIATION. Aman Jakhar[1], Juan Romero[2], Shawn Askew[1]; [1]Virginia Tech, [2]EcoRobotix 33

34 - HERBICIDE SCREENING FOR WEED MANAGEMENT AND CROP TOLERANCE IN EDAMAME (GLYCINE MAX (L.) MERR.). Akashdeep Singh Brar[1], Michael Flessner[1], Bo Zhang[1], Mark Reiter[1], Vijay Singh[1]; [1]Virginia Tech 34

35 - SEDGE CONTROL IN TURF WITH COMBINATIONS OF SULFENTRAZONE, HALOSULFURON, AND BENTAZON. Suzannah Hale[1], Bret Corbett[2], Shawn Askew[1]; [1]Virginia Tech, [2]Albaugh Specialty 35

36 - CHARACTERIZATION OF INCREASED EPSPS COPY NUMBER IN GLYPHOSATE-RESISTANT ITALIAN RYEGRASS. Adrian Veron[1], Caio Brunharo[1]; [1]The Pennsylvania State University N/A

37 - EXPLORING SYNERGY BETWEEN COVER CROPS AND HERBICIDES IN NO-TILL SOYBEANS. Grant Hoffer[1], John Wallace[1], Mark VanGessel[2], Nicholas Basinger[3], Aaron Hager[4], Erin Haramoto[5], John Lindquist[6], Wesley Everman[7], Eugene Law[8], Karla Gage[9], Eric Miller[9]; [1]Pennsylvania State University, [2]University of Delaware, [3]University of Georgia, [4]University of Illinois, [5]University of Kentucky, [6]University of Nebraska, [7]Iowa State University, [8]Ohio State University, 9Southern Illinois University 37

38 - CULTURAL STRATEGIES FOR ENHANCING WEED SUPPRESSION IN ORGANIC SPRING OAT PRODUCTION. Emily McFadden[1], Abbe Hamilton[1], Daniela Carrijo[1], John Wallace[1]; [1]Pennsylvania State University 38

39 - PYRIDATE COMPARED TO HALOSULFURON, IMAZOSULFURON, AND SULFENTRAZONE FOR FALSE GREEN KYLLINGA (KYLLINGA GRACILLIMA) AND YELLOW NUTSEDGE (CYPERUS ESCULENTUS) CONTROL. Suzannah Hale[1], Bret Corbett[2], John Peppers[3], Juan Romero Cubas[4], Shawn Askew[1]; [1]Virginia Tech, [2]Albuagh Specialty, [3]Envu, [4]Ecorobotix 39

40 - INTEGRATION OF RESIDUAL HERBICIDE-COATED FERTILIZER FOR ITALIAN RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM) CONTROL. Colden Bradshaw[1], Charlie Cahoon[1], Wesley Everman[2], Brock Dean[1], Diego Contreras[1], Jackson Alsdorf[1], Luke Szoch[1], Ronel Argueta[1], Zachary Taylor[1]; [1]North Carolina State University, [2]Iowa State University 40

41 - APPLICATION VOLUME EFFECTS ON POSTEMERGENCE HERBICIDE EFFICACY FOR BROADLEAF WEED CONTROL. Logan Smith[1], Greg Breeden1, Alan Estes[2], Jim Brosnan[1]; [1]University of Tennessee, [2]PBI-Gordon 41

42 - PREDICTION OF WEED INDUCED YIELD LOSS IN MAIZE (ZEA MAYS) AND CARINATA (BRASSICA CARINATA). Avi Goldsmith[1], Charlie Cahoon[1], Rob Austin[1], Ramon Leon[1]; [1]North Carolina State University 42

43 - FOLIAR INJURY AND RECOVERY AFTER DIQUAT TREATMENT IN 115 ST. AUGUSTINEGRASS (STENOTAPHRUM SECUNDATUM) LINES. Aliyah Jackson1, Susana Milla-Lewis[1], James Holland[1], [2], Acer VanWallendael[1], Ramon Leon[1]; [1]North Carolina State University, [2]USDA-ARS 43

44 - EVALUATING DURATION OF PGR SUPPRESSION ON GOOSEGRASS (ELEUSINE INDICA) AND COOL-SEASON TURFGRASS SPECIES. Katherine Tuck[1], Matthew Elmore[1]; [1]Rutgers University 44

45 - IMPLICATIONS OF DICAMBA AND 2,4-D ON GLYPHOSATE CONTROL OF ANNUAL GRASSES. Brock Dean[1], Charlie Cahoon[1], David Jordan[1], Zachary Taylor[1], Diego Contreras[1], Colden Bradshaw[1], Jackson Alsdorf[1], Luke Szoch[1]; [1]North Carolina State University 45

46 - EFFECTIVENESS OF INTER-ROW MOWING, ELECTROCUTION, AND SEED IMPACT MILL FOR WEED CONTROL IN SOYBEAN. Preetaman Bajwa[1], Vipan Kumar[2], Christopher Pelzer[3], Matthew Ryan[4], Antonio DiTommaso[4, 5], Wendong Zhang[2]; [1]Graduate research assistant, [2]Associate Professor, [3]Research Support Specialist, [4]Professor, [5]Associate Dean and Director, Cornell AES 46

47 - GLYPHOSATE RESISTANT ANNUAL RYEGRASS (LOLIUM PERENNE) IN NEW YORK: CONFIRMATION, RESISTANCE MECHANISM, AND ALTERNATIVE HERBICIDE STRATEGIES. Midhat Tugoo[1], Vipan Kumar[1], Antonio DiTommaso[1], Mike Stanyard[1], Jason Norsworthy[2]; [1]Cornell University, [2]University of Arkansas 47

48 - CHALLENGES AND CONSIDERATIONS OF MEASURING SPRAY FROM DRONE APPLICATIONS - A NEW APPROACH WITH AN IN-FIELD MEASUREMENT SYSTEM. James Guenard[1], Seamus Murphy[2], Michael Beeston[2]; [1]Oxford Lasers Inc., [2]Oxford Lasers Ltd. 48

49 - REPONSES OF NY AND NJ PALMER AMARANTH TO ATRAZINE AND HPPD-INHIBITORS APPLIED ALONE AND IN COMBINATION. Lynn Sosnoskie[1], Thierry Besancon[2], Caio Brunharo[3], James Polashock[4]; [1]Cornell AgriTech, [2]Rutgers, [3]Penn State, [4]USDA 49

50 - CONFIRMING GLYPHOSATE RESISTANCE IN NEW JERSEY GOOSEGRASS (ELEUSINE INDICA) POPULATIONS. Carrie Mansue[1], Sosnoskie Lynn[2], Caio Brunharo[3], Adrian Veron[3], Thierry Besançon[1]; [1]Rutgers University, [2]Cornell University, [3]The Pennsylvania State University 50

51 - ENDANGERED SPECIES ACT: NOT ALL FIELDS WILL REQUIRE MITIGATION. Bill Chism[1]; Mark VanGessel[2]; [1]Weed Science Society of America, [2]University of Delaware 51

52 - TARGETED SPRAYING TECHNOLOGY AND WEED ESCAPES. John Wallace[1], Grant Hoffer[1]; [1]Penn State University 52

53 - SMOOTH BEDSTRAW (GALIUM MOLLUGO): WHAT ARE THE BEST HERBICIDES IN PASTURE/HAYFIELD? Dwight Lingenfelter[1]; [1]Penn State University 53

54 - EVALUATING ATRAZINE PERSISTENCE IN PENNSYLVANIA'S INTENSIFIED DAIRY CROPPING SYSTEMS. Noelle Connors[1], Caio Brunharo[1], Heather Karsten[1], John Wallace[1]; [1]Pennsylvania State University 54

55 - CRABGRASS SUPPRESSION WITH MIXTURES OF WHITE CLOVER AND TURFGRASS SPECIES. Emmanuel Nwachukwu[1], Daniel Tuck[1], Brandon McNally[2], Aaron Patton[2], Matthew Elmore[1]; [1]Rutgers, The State University of New Jersey, [2]Purdue University 55

56 - WEED AND SOIL BIOLOGICAL RESPONSES TO ZASSO ELECTRICAL WEEDING. Aleah Butler-Jones[1], Adam Thomas[1], Gregory Peck[1], Kyle Wickings[1], Brad Hanson[2], Marcelo Moretti[3], Lynn Sosnoskie[1]; [1]Cornell University, [2]University of California, Davis, [3]Oregon State University N/A

57 - IS INTERSEEDING SUMMER COVER CROPS A VIABLE OPTION FOR SUPPRESSING ITALIAN RYEGRASS (LOLIUM PERENNE SSP. MULTIFLORUM) IN THE FALL? Jackson Alsdorf[1], Diego Contreras[1], Zachary Taylor[1], Colden Bradshaw[1], Brock Dean[1], Wesley Everman[2], Charles Cahoon[1]; [1]North Carolina State University, [2]Iowa State University 57

58 - HAS ITALIAN RYEGRASS (LOLIUM PERENNE SPP. MULTIFLORUM) IN NORTH CAROLINA EVOLVED RESISTANCE TO PREEMERGENCE HERBICIDES? Diego Contreras[1], Jackson Alsdorf[1], Colden Bradshaw[1], Brock Dean[1], Zach Taylor[1], Wesley Everman[2], Charles Cahoon[1]; [1]North Carolina State University, [2]Iowa State University 58

59 - HERBICIDE RESISTANCE GENE FLOW IN ITALIAN RYEGRASS ACROSS THE US. Adrian Veron[1], Caio Brunharo[1]; [1]The Pennsylvania State University 59

60 - INTEGRATING COVER CROPS FOR WEED MANAGEMENT IN EDAMAME (GLYCINE MAX (L.) MERR.) IN THE MID-ATLANTIC REGION. Akashdeep Singh Brar[1], Michael Flessner[1], Bo Zhang[1], Mark Reiter[1], Vijay Singh[1]; [1]Virginia Tech 60

61 - EVALUATION OF LINCHPIN (HALOSULFURON-METHYL, MESOTRIONE, AND QUINCLORAC) FOR WEED CONTROL IN VIRGINIA TURFGRASS. Samuel Crawford[1], Shawn Askew[1], Juan Romero[2], Michael Prudhomme[3]; [1]Virginia Tech, [2]Ecorobotix, [3]Sipcam Agro USA 61

62 - DOES COVER CROP- MEDIATED WATERHEMP (AMARANTHUS TUBERCULATUS) DEMOGRAPHY AFFECT GLUFOSINATE EFFICACY? Laurel Wellman[1], John Wallace[1]; [1]Pennsylvania State University 62

63 - WHAT'S NEW IN INDUSTRY. Sudeep Mathew[1], Mark Kitt[1], David Belles[1], Eric Palmer[1]; [1]Syngenta Crop Protection, LLC N/A

64 - EPYRIFENACIL (RAPIDICIL®), A NOVEL BROAD SPECTRUM PPO HERBICIDE FOR BURNDOWN WEED CONTROL. Gregory G. Clarke[1], Eric J. Ott[1], Randall L. Landry[1], Pat Clay[1]; [1]VALENT USA LLC 64

65 - OPTIMIZED HERBICIDE SOLUTIONS FOR EFFECTIVE CONTROL OF MULTIPLE HERBICIDE RESISTANT AMARANTHUS. Erin Hitchner[1], Scott Cully[1], David Belles[1], Mark Kitt[1], Jesse Haarmann[1]; [1]Syngenta 65

66 - TESTING POTENTIAL STRATEGIES TO SPEED UP CARROT CANOPY CLOSURE. Maria Gannett[1]; [1]University of Massachusetts 66

67 - ZAPPING PERENNIAL WEEDS: ZASSO™ ELECTRICAL WEEDING TECHNOLOGY PERFORMANCE IN HIGHBUSH BLUEBERRY. Thierry Besançon[1], Aleah Butler-Jones[2], Wesley Bouchelle[1], Lynn Sosnoskie[2]; [1]Rutgers University, [2]Cornell University 67

68 - FABACEAE CROP TOLERANCE TO PRE-EMERGENCE AND POST-EMERGENCE METAMITRON APPLICATION. Thierry Besançon[1], Mark VanGessel[2], Lynn Sosnoskie[3]; [1]Rutgers University, [2]University of Delaware, [3]Cornell University 68

69 - EVALUATION OF ELECTRIC WEED CONTROL AS AN ALTERNATIVE FLOOR MANAGEMENT SYSTEM IN A NEWLY ESTABLISHED APPLE ORCHARD AND GRAPE VINEYARD. Aleah Butler-Jones[1], Adam Thomas[1], Gregory Peck[1], Kyle Wickings[1], Lynn Sosnoskie[1]; [1]Cornell University 69

70 - EVALUATING COVER CROP SEEDING AND TERMINATION METHODS FOR WEED CONTROL IN PLASTICULTURE VEGETABLES. Kurt Vollmer[1], Thierry Besançon[2], Wesley Bouchelle[2]; [1]University of Maryland, [2]Rutgers University 70

71 - UNDERSTANDING RED BEET GROWTH AND DEVELOPMENT TO IMPROVE WEED CONTROL. Thierry Besancon[1], *Lynn Sosnoskie[2], Jane Petzoldt[2], Rye Weber[2], Yu Jiang[2]; [1]Rutgers University, [2]Cornell AgriTech - Cornell University 71

72 - IMPACTS OF LASER WEEDING ON WEED CONTROL AND CROP VIGOR IN NEW YORK ONIONS. Lynn Sosnoskie[1], Brian Nault[1], Christy Hoepting[1]; [1]Cornell University 72

73 - COMPARING WEED CONTROL OF WEED AND FEED PRODUCTS USED ON TURFGRASS. Douglas Linde[1], Steve McDonald[2]; [1]Delaware Valley University, [2]Turfgrass Disease Solutions, LLC 73

74 - TOLERANCE AND EFFICACY OF PETHOXAMID IN CONTAINER PRODUCTION. Jeffrey Derr[1]; [1]Virginia Tech 74

75 - RESPONSE OF CONTAINER-GROWN HYDRANGEA TO GRANULAR PRE-EMERGENCE HERBICIDE APPLICATION METHOD. Anthony Witcher[1]; [1]Tennessee State University 75

76 - FALSE-GREEN KYLLINGA: SUMMARY OF RECENT RESEARCH AND FUTURE DIRECTIONS. Matthew Elmore[1], Daniel Tuck[1]; [1]Rutgers University 76

77 - EVALUATION OF LIQUID AND GRANULAR CHELATED IRON APPLICATION RATES AND TIMINGS IN TURFGRASS. Kelly Nichols[1]; [1]University of Maryland 77

78 - USING HERBICIDES AND PERENNIAL RYEGRASS TO RENOVATE TURF DOMINATED BY ANNUAL BLUEGRASS AT A NEW JERSEY HIGH SCHOOL. Bradley Park[1], Michael Morvay[2], Matthew Elmore[1], James Murphy[1]; [1]Rutgers University, [2]Middlesex County Magnet Schools 78

79 - DETERMINING THE DRIFT POTENTIAL OF UNMANNED AERIAL SYSTEMS. Vijay Singh[1], Fatemeh Esmaeilbeiki[1], Daniel Matrin[2]; [1]Virginia Polytechnic Institute and State University, [2]Pluvium LLC 79

80 - EFFECTIVENESS OF ORGANIC AND INORGANIC MULCHES IN CONTROLLING MUGWORT (ARTEMISIA VULGARIS L.). Jatinder Aulakh[1], Ethan Paine[1]; [1]Connecticut Agricultural Experiment Station 80

81 – DATA DUMPS AND DECISION SUPPORT: APPLYING AI (AUGMENTED INTELLIGENCE) IN EXTENSION. Mark Locklear[1]; [1]Extension Foundation 81

82 - HUMAN GAZE ANGLE AND HERBICIDE ASSOCIATED IMPACTS TO TURF AESTHETICS Aman Jakhar, Suzannah Hale, Samuel Crawford, Shawn Askew 82