

Table of Contents

General Statement	ii
Acknowledgments	iii
Table of Contents	iv

ADJUVANT STUDIES, CORN OR SOYBEAN

Callisto Adjuvant Study	1
Option Adjuvant Screen	6
Option Plus Callisto Adjuvant Study	12
Option Adjuvant Study on Johnsongrass	18
Phoenix Adjuvant Study	23
Agrilience Cornerstone (glyphosate) Adjuvant Study	29
Loveland Glyphosate Adjuvant Study	34
Miller Glyphosate Adjuvant Study	40
Precision Labs Glyphosate Adjuvant Study	48
Rosen's Glyphosate Adjuvant Study	56
Glyphosate Surfactant Comparison in Soybean	64
Comparison of "Full Load" Glyphosate Formulations in Roundup Ready Soybean	70
Comparison of "Full Load" Glyphosate Formulations in Roundup Ready Soybean - Waterhemp	76
Influence of AMS on Drift Reduction Antagonisms	82
Glyphosate Rate and Application Volume Effects on Drift Reduction Nozzles and Agents	88
Viscosity Agents vs. Invert Emulsions for Glyphosate Efficacy	94
Herbicide Drift Reduction Methods - Study 1	102
Herbicide Drift Reduction Methods - Study 2	109
Star-of-Bethlehem Adjuvant Study	115

FALL APPLIED HERBICIDES

Comparison of Fall Applied Herbicides in Corn	120
Comparison of Fall Applied Herbicides in Soybean	128
Control of Winter Annual Grasses with Fall Applications of Soybean Herbicides	138
Evaluation of Pendimethalin CS and EC	145
Fall Applications of Basis and Express in Corn	151
Fall vs. Spring Application of Extreme and Backdraft	157

CORN, NO-TILL

General Burndown and Residual Herbicides in No-Till Corn.	163
Balance Pro Cleanstart in Corn.	173
Mesotrione Premixes in No-Till Corn Burndown.	179
Evaluation of Grass Control in No-Till Corn.	185
Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.	195
Star-of-Bethlehem Control in No-Till Corn.	208
Tillage X Fertility Study.	213

CORN, TILLED

General Herbicide Programs in Corn.	218
DuPont Sales Demonstration in Conventional Corn.	226
Complete Crop Protection Programs in Corn.	232
Comparison of Soil Residual Grass Herbicides in Corn.	238
Experimental Premixes Applied Preemergence in Corn.	242
Experimental Postemergence Corn Herbicide Evaluation.	250
Sequential Herbicide Programs in Liberty Link Corn.	255
Postemergence Broadleaf Herbicide Comparisons in Corn.	263
Weed Management in Roundup Ready Corn.	271
Balance Pro vs Callisto Preemergence.	279
Option Tank-Mix Partners in Corn.	283
Steadfast and Option Comparison.	290
Liberty and Callisto Total Postemergence Programs.	296
Lightning plus Distinct and Callisto Tankmixtures.	304
Aim Late Season Rescue in Corn.	310
Common Pokeweed Control in Corn.	314
Control of Morningglory in Roundup Ready Corn with S-3153.	319
Control of Volunteer Horseradish in Corn.	324
Effect of Nitrogen on Common Waterhemp Control in Corn.	328
Specialty Corn Demonstration.	333

SOYBEAN, NO-TILL

Residual Herbicides in No-Till Soybean Burndown Programs.	337
Evaluation of Atrazine, Princep, and Balance Applied Early Preplant in Roundup Ready Soybean. ...	347
UAP Acid Herbicide Burndown Study.	351
UAP Experimental Burndown Herbicides in No-Till Soybean.	357
Star-of-Bethlehem Control in No-Till Soybean.	365
Perennial Eastern Black Nightshade.	370
Common Pokeweed Control in Soybean.	374

SOYBEAN, TILLED

Weed Management in Conventional Soybean - Study 1.	378
Weed Management in Conventional Soybean - Study 2.	388
Herbicide Programs in Roundup Ready Soybean.	396
Effect of Soil Residual on Weed Spectrum at Postemergence Timing - Study 1.	406
Effect of Soil Residual on Weed Spectrum at Postemergence Timing - Study 2.	414
Evaluation of Generic Clethodim - Study 1.	424
Evaluation of Generic Clethodim - Study 2.	429
Phoenix and Select Tankmixtures.	434
Evaluation of Herbicide Efficacy on a Waterhemp Population.	439
Herbicide Programs for Control of a Waterhemp Population.	444
Waterhemp Control Programs in Soybean.	449
Effect of Grass Competition on Common Waterhemp Control.	455
Effect of Nitrogen on Common Waterhemp Control in Soybean.	461
Morningglory Control in Soybean with S-3153, FirstRate, and Aim.	466
Evaluation of Roundup Ready Soybean Tolerance to Formulations of Glyphosate.	471
Evaluation of Soybean Injury with Authority and Valor.	476
Evaluation of Aim as a Preharvest Aid.	481
Evaluation of Phoenix for Suppression of SDS.	485
Time of Day Effects with Glyphosate.	489
Commercial vs. Small Plot Herbicide Applications.	496

WHEAT

Control of Little Barley in Winter Wheat.	502
Control of Wild Garlic and Winter Annual Weeds in Winter Wheat.	507
Control of Downy Brome in Winter Wheat.	517
Wheat Management Strategies.	522
Wheat Variety Trial.	526
Evaluation of Wheat Yield Following Corn and Soybean in No-Till and Reduced-Till.	531

HORTICULTURAL CROPS

Pumpkin Winter Rye Weed Management Study.	535
Zucchini No-Till Weed Management Study.	541
Evaluation of Various Winter Rye Cultivars for Weed Control in No-Till Squash.	546

APPENDICES

Index of Weeds, Common Names.	552
Index of Weeds, Five Letter Codes.	553
Index of Herbicides.	554
Index of Adjuvants.	557
Index of Crops.	559
Index of Other Experimental Details.	560
Index of Project Codes.	562
Illinois Climate Network Monthly Summaries.	565