

# List of Studies

## Adjuvant Studies, Corn or Soybean

Oil Adjuvants with Option - Agrilience. . . . .	1
Liberty (reduced-rate) Adjuvant Study in Corn - Precision Labs. . . . .	3
Liberty (full-rate) Adjuvant Study in Corn - Precision Labs. . . . .	5
Liberty Adjuvant Study in Corn - Soil Service. . . . .	7
Liberty AMS Replacements - United Suppliers. . . . .	9
Postemergence HPPD Inhibitor Adjuvant Study. . . . .	12
Influence of Spray pH on Laudis Efficacy. . . . .	14
AMS Replacements with Glyphosate - United Suppliers. . . . .	16
AMS Replacements with Glyphosate - Agrilience. . . . .	18
AMS Replacements with Glyphosate - Big Rivers. . . . .	21
AMS Replacements for Glyphosate Applications. . . . .	24
Non-ionic Surfactants with Glyphosate - Agrilience. . . . .	26
Foliar Micronutrients with Glyphosate - Agrilience. . . . .	28
Adjuvant Evaluation with DuPont Product Concepts. . . . .	30
Control of Volunteer Roundup Ready Corn. . . . .	33
Control of Volunteer Roundup Ready Corn - Agrilience. . . . .	35
Control of Volunteer Roundup Ready Corn in Soybean - United Suppliers. . . . .	37
Headline Adjuvant Evaluation in Corn - Soil Service. . . . .	39

## No-Till Corn Weed Control Studies

Gramoxone Inteon Burndown for Roundup Ready Corn - Glyphosate-Resistant Marestalk. . . . .	41
Valor Early Preplant Applications in Corn. . . . .	49
Valor versus Competitive Corn Standards. . . . .	52
Weed Control with Permit. . . . .	55
Pokeweed Control with Permit. . . . .	57

## No-Till Soybean Weed Control Studies

Weed Management for Conventional Soybean in No-Till. . . . .	59
General Evaluation of Spring Burndown Programs for Soybean. . . . .	66
Early Spring Burndown with Valor XLT. . . . .	78
Glyfos X-tra and Pursuit Combinations for Weed Management in No-Till Soybean. . . . .	81
Glyphosate, Carfentrazone, and 2,4-D burndown products. . . . .	87
Glyfos X-tra and Metribuzin Combinations for Weed Management in No-Till Soybean. . . . .	89
Weed Control in No-Till Liberty Link Soybean - General Burndown. . . . .	95
Weed Control in No-Till Liberty Link Soybean - Glyphosate-Resistant Marestalk. . . . .	102

General Evaluation of Fall Herbicides Prior to Soybean - Glyphosate-Resistant Marestalk. . . . .	107
Burndown Combinations for Glyphosate-Resistant Marestalk in No-Till Soybean. . . . .	116
Burndown and In-Season Herbicide Options for Glyphosate-Resistant Marestalk in Soybean. . . . .	120
Gramoxone Inteon for Glyphosate-Resistant Marestalk. . . . .	131
Roundup OriginalMax Burndown Tank-Mix Interactions - Glyphosate-Resistant Marestalk. . . . .	142
Prefix Programs for Glyphosate-Resistant Marestalk. . . . .	147
Interaction of Soil Residual Herbicides and Preplant Growth Regulator Herbicides on Soybean Development. . . . .	154
Influence of Preplant Growth Regulator Herbicide on Soybean Development. . . . .	161
Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation. . . . .	168

## **Corn, Tilled Weed Control Studies**

Corn Hybrid Tolerance to Nicosulfuron Formulations. . . . .	178
Roundup Ready Corn Program Comparison - Monsanto. . . . .	185
Impact Sequential Programs. . . . .	191
Evaluation of Halex GT and Competitive Standards. . . . .	198
Rimsulfuron plus Isoxaflutole Foundation in Corn. . . . .	205
Early Postemergence Programs in Glyphosate-Resistant Corn. . . . .	213
Program Approaches with New Isoxadifen Product Blends. . . . .	218
Isoxadifen Crop Safety Screen with Sulfonylurea Corn Herbicides. . . . .	227
Total Postemergence and Sequential Programs in Corn. . . . .	232
POST Glyphosate Timing in Roundup Ready Corn. . . . .	240
Residual Herbicide Rate and Timing Study in Glyphosate-Resistant Corn. . . . .	249
Influence of Residual Herbicides on Weed Spectrum in Glyphosate-Resistant Corn. . . . .	259
Metolachlor Utility in Roundup Ready Corn. . . . .	279
Early Postemergence Applications of Premixes with Glyphosate in Roundup Ready Corn. . . . .	286
Sequential Programs in Liberty Link Corn. . . . .	289
One-Pass PRE Programs with KIH-485. . . . .	294
Sequential Herbicide Programs in Roundup Ready Corn with KIH-485. . . . .	298
Permit and Yukon Foliar and Residual Activity. . . . .	301
Weed Management Programs in Conventional Corn. . . . .	307
Assessment of Carryover from Preplant Soybean Herbicides Applied in 2006. . . . .	314
Laudis Programs. . . . .	319
Laudis Tank-Mixtures in Liberty Link Corn. . . . .	325
Tank-Mixtures of Accent and Atrazine with AE 0172747 - Belleville. . . . .	329
Tank-Mixtures of Accent and Atrazine with AE 0172747 - Carbondale. . . . .	334
Tank-Mixtures of AE 0172747 with Option and Accent - Belleville. . . . .	339
Tank-Mixtures of AE 0172747 with Option and Accent - Carbondale. . . . .	344
AE 172747 Tank-mix Study. . . . .	349

Control of Johnsongrass with Laudis. . . . .	352
Control of Johnsongrass with Nicosulfuron. . . . .	355
Corn Tolerance from Planting into Select Max Soil Residues. . . . .	358
Roundup Ready Corn Burndown with Clethodim. . . . .	360
Permit Postemergence Combinations. . . . .	362

## **Soybean, Tilled Weed Control Studies**

Weed Management for Conventional Soybean in Reduced-Till. . . . .	365
Weed Control in Liberty Link Soybean. . . . .	374
Influence of Row Spacing on Weed Control in Liberty Link Soybean. . . . .	378
Residual Herbicides in Roundup Ready Soybeans - 1. . . . .	385
Residual Herbicides in Roundup Ready Soybean - 2. . . . .	394
Residual Herbicides in Roundup Ready Soybean - 3. . . . .	405
Common Waterhemp Control with Valor. . . . .	409
Glyphosate plus Cobra Tank-Mixtures for Waterhemp Control. . . . .	414
Control of PPO-Resistant Waterhemp in Liberty Link Soybean. . . . .	416
Control of Volunteer Roundup Ready Corn in Soybean with Targa. . . . .	418
Control of Volunteer Roundup Ready Corn with Scepter. . . . .	420

## **Fall Applied Herbicides**

General Evaluation of Fall Herbicides Prior to Soybean. . . . .	422
General Fall Herbicide Comparison in Corn. . . . .	426
Syngenta Fall Applied Herbicide Demonstration Study. . . . .	432

## **Wheat**

Aphid Management in Winter Wheat. . . . .	435
Aphid Management in Winter Wheat. . . . .	437
Grass and Broadleaf Management in Winter Wheat. . . . .	440
Finesse Grass and Broadleaf Timing Study. . . . .	445
General Foliar Fungicide Evaluation in Wheat. . . . .	448
Bayer and DuPont Foliar Fungicides in Wheat. . . . .	451

## **Pasture, Alfalfa and Horticultural Crops**

Broadleaf Weed Control in Pastures - 2006. . . . .	454
Broadleaf Weed Control in Pastures - 2007. . . . .	458
Roundup Ready Alfalfa Evaluation. . . . .	460
Rimsulfuron in Grapes. . . . .	462
Rimsulfuron in Peaches. . . . .	465
Cover Crops for Weed Management in Grapes. . . . .	469

## **Fungicide Studies, Soybean or Corn**

Corn Foliar Fungicide by Hybrid Evaluation. . . . .	471
General Foliar Fungicide Screen in Soybean. . . . .	477
Headline by Soybean Variety Evaluation - Tamms. . . . .	481
Topguard Evaluation in Soybean. . . . .	484

## **Indexes**

Index of Weeds by Common Name . . . . .	487
Index of Weeds by Five-Letter Code . . . . .	489
Index of Herbicides (and other pesticides) . . . . .	491
Index of Adjuvants . . . . .	496
Index of other Experimental Details . . . . .	498
Index of Crops . . . . .	499
Index of Project Codes . . . . .	501
Index of Protocols. . . . .	504

## **Weather Data**

Illinois Climate Network Monthly Summaries - Belleville, IL. . . . .	505
Illinois Climate Network Monthly Summaries - Carbondale, IL. . . . .	520