UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 31 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Memorandum:

SUBJECT: 037100-00027. Diflubenzuron. Label Amendment for a Flowable Formulation, Dimilin 2F. Evaluation of Field Residue Data for Soybeans. (MRID# 424737-01, CBTS# 10835, Barcode#D184394).

FROM: Jerry B. Stokes, Chemist
Chemistry Branch/Tolerance Support
Health Effects Division (7509C)

THRU: Philip V. Errico, Section Head
Chemistry Branch/Tolerance Support
Health Effects Division (7509C)

TO: P. Hutton/P. Schroeder, PM #18
Insecticide-Rodenticide Branch
Registration Division (7505C)

Duphar Chemical Company of Graveland, Holland has requested that label of the flowable formulation, Dimilin 2F (a.i. diflubenzuron, 24%) be amended for use on soybeans. The wettable powder formulation Dimilin 25WP is allowed on soybeans. A tolerance is established for soybeans at 0.05 ppm in 40 CFR §180.377. Feed additive tolerances are established for soybean hulls (0.5 ppm) and soybean soap stock (0.1 ppm) in 40 CFR §186.2000.

The registrant has submitted side-by-side field residue data for trials conducted using the Dimilin 2F and Dimilin 25WP formulations. This data has been reviewed by Dynamac Corporation, an EPA contractor, under the guidance of CBTS. All conclusions are the decisions of CBTS. Attached is the data evaluation report of the contractor.

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CBTS Comments/Conclusions:

In the submitted field studies, residue values ranged from <0.01 ppm to 0.03 ppm in all soybean samples treated with either the 2F or WP formulations. The residue data and the established tolerances for the parent diflubenzuron are adequate to support the proposed use of the flowable formulation Dimilin 2F on soybeans. In addition, HED has determined that flowable and wettable powder formulations are sufficiently similar to allow translation of residue data between the two formulations (See memo of 8/27/93, P. Fenner-Crisp, Director, HED, to L. Culleen, Director, RD.)

Therefore CBTS can recommend that the amended use and the revised label for Dimilin 2F be accepted.

Attachment: Diflubenzuron, Data Evaluation Report, dated May 20, 1993, 8 pages

cc with Attachment: J. Stokes (CBTS); Diflubenzuron S. F.; R.F.; Circu
RDI: PErrico:1/25/94: RLoranger:1/25/94
7509C:CBTS:JStokes:js:Rm 803:CM#2:305-7561:1/27/94

DYNAMAC CORPORATION
Environmental Services

Final Report

DIFLUBENZURON

TASK 4
Data Evaluation Record

May 20, 1993

Contract No. 68-D2-0053

Submitted to:
U.S. Environmental Protection Agency
Arlington, VA 22202

Submitted by:
Dynamac Corporation
The Dynamac Building
2275 Research Boulevard
Rockville, MD 20850-3268

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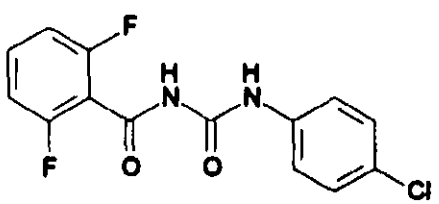
May, 1993
424737-01

DATA EVALUATION RECORD

STUDY TYPE [GUIDELINE REF. NO.]:	Magnitude of the residue in/on soybeans [171-4 (k)]
MRID NO., AUTHOR, STUDY TITLE, STUDY COMPLETION DATE:	42473701. K.A. Gaydosh. Magnitude of diflubenzuron residues in soybeans treated with Dimilin 2F and Dimilin 25W. May 25, 1992
STUDY SPONSOR:	Uniroyal Chemical Company, Inc. (Bethany, CT)
LABORATORY PROJECT ID:	Uniroyal Study No. RP-90041; Solvay Duphar Report No. 56637/23/92; NET Lab Project No. 31600/31700; Field Experiment Nos. KMM-90-041, TRH-90018, TRH-90-020, KHG-90-007, WSM-90-010, CRA-90-094, TRH-90-019, and WSM-90-011.
PERFORMING FIELD LABORATORIES:	Uniroyal Chemical Company, Inc. (Bethany, IL; West Des Moines, IA); Agri-Growth Research, Inc. (Genesco, IL); Agri-Growth Research, Inc. (Hollandale, MN); Henry Agri-Scientific (Bishop, GA); S-L Agri-Development (Senatobia, MS); and R&D Sprayers, Inc. (Opelousas, LA)
PERFORMING ANALYTICAL LABORATORY:	National Environmental Testing Laboratories (Bedford, MA)
PP#; REG. NO.; ETC.:	EPA Reg. Nos. 37100-27 and 37100-8
FORMULATION NAME:	Dimilin 2F Percent Active Ingredient: 24.0% lbs ai/gal: 2.0 Dimilin W-25 Percent Active Ingredient: 25.0%
TEST MATERIAL APPLIED TO CROP:	Diflubenzuron (CAS No. 35367-38-5)



RESIDUE MEASURED: Diflubenzuron

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SUMMARY OF DATA

Uniroyal Chemical Company (1992; MRID 42473701) submitted field residue data from 16 tests conducted in GA(2), IL(4), IA(4), LA(2), MA(2), and MS(2) depicting residues of diflubenzuron in/on soybeans and reflecting use of the 25% WP (EPA Reg. No. 37100-8) and 2 lb/gal FIC (EPA Reg. No. 37100-27) formulations. Presently, only the WP formulation is registered for use on soybeans. The present study was conducted to compare the effectiveness of the two formulations and to determine the adequacy of the established tolerance in/on soybeans (0.05 ppm, expressed as diflubenzuron *per se*, 40 CFR §180.377) following applications according to the maximum registered/proposed use patterns.

Soybeans were harvested 20-23 days following the last of two postemergence foliar applications, made at a 30-day interval, of the WP and FIC formulations at 0.0625 lb ai/A/application (1x the maximum registered single and seasonal rates for the WP formulation). Diflubenzuron was initially applied 2-3 months postplanting using either ground (ca. 25 gal of finished spray/A) or aerial (3-5 gal/A) equipment. No data were provided for soybean forage and hay since the label for the WP formulation prohibits the grazing of treated soybean forage by livestock and the cutting for hay. Table 1 presents the results of the residue field trials. Residues (corrected by the petitioner for method recoveries) in/on all treated soybean samples were below the established tolerance. The apparent residues of diflubenzuron were <0.01 ppm (nondetectable) in/on seven untreated control samples of soybeans. One additional control sample from IA bore detectable residues of 0.01 ppm.

Table 1. Residues of diflubenzuron found in/on soybeans following two postemergence foliar applications of FIC or WP formulation at 0.0625 lb ai/A/application.

PTI [a] (Days)	Equipment	Test State(s)	Residues in ppm (No. of Samples) [b]
		2 lb/gal FIC Formulation	
20	Aerial	MA	<0.01 (2)
21	Aerial	IA	<0.01 (2)
21	Ground	IL, MS	<0.01-0.02 (4)
22	Ground	GA, IL, LA	<0.01-0.01 (6)
23	Ground	IA	<0.01, 0.01 (2)
		25% WP Formulation	
20	Aerial	MA	<0.01 (2)
21	Aerial	IA	<0.01 (2)
21	Ground	IL, MS	<0.01-0.01 (4)
22	Ground	GA, IL, LA	<0.01-0.03 (6)
23	Ground	IA	<0.01, 0.01 (2)
		Untreated Controls	
		IL, GA, LA, MA, MS	<0.01 (7)
		IA	0.01 (1)

[a] Posttreatment interval.
[b] Ppm values were corrected by the petitioner for concurrent method recoveries.

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Geographic representation is adequate since the test states of GA(1%), IL(18%), IA(17%), LA(2%) and MS(2%) along with the neighboring states of IN(9%), MN(9%), and MO(6%) accounted for ca. 64% of the 1990 U.S. soybean production (1991; Agricultural Statistics: USDA Census of Agriculture).

Residue Analytical Methods

Residues of diflubenzuron in/on soybean samples were determined using an HPLC/UV method (designated as Uniroyal Method L-3-86-4). Briefly, samples were blended and extracted three times with ethyl acetate. The ethyl acetate extracts were combined and evaporated to dryness. The residues were further extracted with hexane and partitioned with acetonitrile. The hexane layer was discarded while the acetonitrile layer was re-extracted with hexane, discarding the hexane after the partition. The acetonitrile extract was evaporated to dryness, dissolved in methylene chloride, and subjected to florisil column cleanup. The florisil column was washed with petroleum ether and acetone:petroleum ether (1:9 and 1:4; v:v). The eluted residues were evaporated to dryness, dissolved in acetonitrile:water (55:45; v:v), and analyzed by HPLC/UV (254 nm). The quantitation limit for the method is 0.01 ppm for diflubenzuron in/on soybeans.

Concurrent method recoveries from untreated soybean samples fortified with diflubenzuron were: (i) 74-105% (7 samples fortified at 0.01 ppm); (ii) 69-92% (4 samples fortified at 0.50 ppm); and (iii) 75-100% (5 samples fortified at 1.00 ppm). These data indicate that Method L-3-86-4 is adequate for collecting data on diflubenzuron residues from soybeans.

Storage Stability Data

No storage stability data were included with the present submission. Soybean samples were received by the analytical laboratory within 30 days of sampling. At the analytical laboratory, samples were stored frozen (-15 ± 5 C) for 146-188 days prior to extraction. Samples were then analyzed within 10-35 days of extraction. We estimate that the total storage interval between sample harvest and analysis is 5-7 months.

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Diflubenzuron - Soybeans Formulation = 25% WP, 2 lb/gal FlC LOD: 0.01

MRID	YR	LOC	NO OF SAMPLES	COMM	APPL RAC	APPL METHOD	EQUIP	FORM.	NO. APPL	lb ai/A/ Applic	PTI (days)	Residues (ppm) Diflubenzuron	UNTREAT. CONTROL Diflubenzuron	FORT. (ppm)	PERCENT RECOVERY	STORAGE INTERVAL (days) Extr.	Anal.	TEMP
424737011	1990	GA	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	82	146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	94	146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	control		-	-	-	-	<0.01				146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	0.01				146	155	-15 ± 5
424737011	1990	GA	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				146	155	-15 ± 5
424737011	1990	GA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				146	155	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	74	175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	85	175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-	<0.01				175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
424737011	1990	IL	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	<0.01				175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	0.01				175	185	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	103	175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	92	175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	control		-	-	-	-	<0.01				175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
424737011	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
424737011	1990	IL	dup	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	100	188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	89	188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-	0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	23	<0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	23	0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	g	25WP	2	0.0625	23	0.01				188	198	-15 ± 5
424737011	1990	IA	dup	soybeans	seed	foliar	g	25WP	2	0.0625	23	0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	g	25WP	2	0.0625	23	<0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	77	188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	100	188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	control		-	-	-	-	<0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	a	2FlC	2	0.0625	21	<0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	a	2FlC	2	0.0625	21	<0.01				188	198	-15 ± 5
424737011	1990	IA	dup	soybeans	seed	foliar	a	2FlC	2	0.0625	21	0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	a	25WP	2	0.0625	21	<0.01				188	198	-15 ± 5
424737011	1990	IA	1	soybeans	seed	foliar	a	25WP	2	0.0625	21	<0.01				188	198	-15 ± 5
424737011	1990	LA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	81	161	168	-15 ± 5
424737011	1990	LA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	75	161	168	-15 ± 5
424737011	1990	LA	1	soybeans	seed	control		-	-	-	-	<0.01				161	168	-15 ± 5
424737011	1990	LA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				161	168	-15 ± 5
424737011	1990	LA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				161	168	-15 ± 5
424737011	1990	LA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				161	168	-15 ± 5
424737011	1990	LA	dup	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				161	168	-15 ± 5
424737011	1990	LA	[illegible]	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.03				161	168	-15 ± 5

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Diflubenzuron - Soybeans Formulation = 25% WP, 2 lb/gal FlC LOD: 0.01

MRID	YR	LOC	NO OF SAMPLES	COMM	RAC	APPL METHOD	EQUIP	FORM.	NO. APPL	lb ai/A/ Applic	PTI (days)	Residues (ppm) Diflubenzuron	UNTREAT. CONTROL Diflubenzuron	FORT. (ppm)	PERCENT RECOVERY	STORAGE INTERVAL (days) Extr.	Anal.	TEMP
424737811	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	100	148	183	-15 ± 5
424737811	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	68	148	183	-15 ± 5
424737811	1990	MS	1	soybeans	seed	control		-	-	-	-	<0.01				148	183	-15 ± 5
424737811	1990	MS	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	0.02				148	183	-15 ± 5
424737811	1990	MS	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				148	183	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				148	183	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	0.01				148	183	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	<0.01				148	183	-15 ± 5
424737011	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	105	164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	93	164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	control		-	-	-	-	<0.01				164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5
424737011	1990	MS	dup	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	a	25WP	2	0.0625	20	<0.01				164	173	-15 ± 5
424737011	1990	MS	1	soybeans	seed	foliar	a	25WP	2	0.0625	20	<0.01				164	173	-15 ± 5

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Diflubenzuron - Soybeans Formulation = 25% WP, 2 lb/gal FlC LOD: 0.01

MRID	YR	LOC	NO OF SAMPLES	COMM	APPL RAC	APPL METHOD	EQUIP	FORM.	NO. APPL	lb ai/A/ Applic	PTI (days)	Residues (ppm) Diflubenzuron	UNTREAT.CONTROL Diflubenzuron	FORT. (ppm)	PERCENT RECOVERY	STORAGE INTERVAL (days) Extr.	Anal.	TEMP
42473701	1990	GA	1	soybeans	seed	control		-	-	-	-	<0.01				146	155	-15 ± 5
42473701	1990	GA	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	82	146	155	-15 ± 5
42473701	1990	GA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	94	146	155	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-	0.01				188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	100	188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	100	188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	89	188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	77	188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	control		-	-	-	-	<0.01				188	198	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	103	175	178	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	92	175	178	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	85	175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	74	175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-	<0.01				175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	control		-	-	-	-	<0.01				175	178	-15 ± 5
42473701	1990	LA	1	soybeans	seed	control		-	-	-	-	<0.01				161	168	-15 ± 5
42473701	1990	LA	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	81	161	168	-15 ± 5
42473701	1990	LA	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	75	161	168	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-	<0.01				148	183	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.50	68	148	183	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	100	148	183	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-	<0.01				164	173	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	1.00	93	164	173	-15 ± 5
42473701	1990	MS	1	soybeans	seed	control		-	-	-	-		<0.01	0.01	105	164	173	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	a	25WP	2	0.0625	21	<0.01				188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	a	25WP	2	0.0625	21	<0.01				188	198	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	a	25WP	2	0.0625	20	<0.01				164	173	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	a	25WP	2	0.0625	20	<0.01				164	173	-15 ± 5
42473701	1990	GA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				146	155	-15 ± 5
42473701	1990	GA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				146	155	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	g	25WP	2	0.0625	23	<0.01				188	198	-15 ± 5
42473701	1990	IA	dup	soybeans	seed	foliar	g	25WP	2	0.0625	23	0.01				188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	g	25WP	2	0.0625	23	0.01				188	198	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	<0.01				175	185	-15 ± 5
42473701	1990	IL	dup	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	0.01				175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	<0.01				175	178	-15 ± 5
42473701	1990	LA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.03				161	168	-15 ± 5
42473701	1990	LA	dup	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				161	168	-15 ± 5
42473701	1990	LA	1	soybeans	seed	foliar	g	25WP	2	0.0625	22	0.02				161	168	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	<0.01				148	183	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	g	25WP	2	0.0625	21	0.01				148	183	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	a	2FlC	2	0.0625	21	<0.01				188	198	-15 ± 5
42473701	1990	IA	dup	soybeans	seed	foliar	a	2FlC	2	0.0625	21	0.01				188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	a	2FlC	2	0.0625	21	<0.01				188	198	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5
42473701	1990	MS	dup	soybeans	seed	foliar	a	2FlC	2	0.0625	20	<0.01				164	173	-15 ± 5

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Diflubenzuron - Soybeans Formulation = 25% WP, 2 lb/gal FlC LOD: 0.01

MRID	YR	LOC	NO OF SAMPLES	COMM	RAC	APPL METHOD	EQUIP	FORM.	NO. APPL	lb ai/A/ Applic	PTI (days)	Residues (ppm) Diflubenzuron	UNTREAT.CONTROL Diflubenzuron	FORT. (ppm)	PERCENT RECOVERY	STORAGE INTERVAL (days) Extr.	Anal.	TEMP
42473701	1990	GA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				146	155	-15 ± 5
42473701	1990	GA	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				146	155	-15 ± 5
42473701	1990	GA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	0.01				146	155	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	23	<0.01				188	198	-15 ± 5
42473701	1990	IA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	23	0.01				188	198	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
42473701	1990	IL	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				175	185	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				175	178	-15 ± 5
42473701	1990	IL	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				175	178	-15 ± 5
42473701	1990	LA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				161	168	-15 ± 5
42473701	1990	LA	1	soybeans	seed	foliar	g	2FlC	2	0.0625	22	<0.01				161	168	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				148	183	-15 ± 5
42473701	1990	MS	dup	soybeans	seed	foliar	g	2FlC	2	0.0625	21	<0.01				148	183	-15 ± 5
42473701	1990	MS	1	soybeans	seed	foliar	g	2FlC	2	0.0625	21	0.02				148	183	-15 ± 5

Attachment
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