

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIX
 PH: 6.2
 %OM: 6.0
 PREV.CROP: ZEAMD - CORN, DENT
 %RESIDUE: 85
 PLOT WIDTH: 10 X 33 FEET

DESIGN: RCB
 REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	05	12	
TYPE	LIQMIX	LIQMIX	
APPLICATION DATE	04/29/03	06/23/03	AME
AIR TEMPERATURE	70	90	F
% REL.HUMIDITY	48	31	
WIND DIRECTION	WEST	SOUTHWEST	
WIND SPEED		9.0	M/H
CLOUD COVER	CLEAR	CLEAR	
DEW	NO	NO	
SOIL MOISTURE	DRY/DRY	DRY/MOIST	
SOIL CONDITION	COMPACT	COMPACT	
METHOD	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	
NOZZLE NUMBER	6	6	
NOZZLE SPACING	20.000	20.000	IN
SWATH WIDTH	10.0	10.0	FT
SPRAY VOLUME	20.00	20.00	
VOLUME UNIT	GPA	GPA	
PRESSURE	32.00	32.00	PSI
DILUENT	WATER	WATER	
INC. DATE			AME
INC. START			24H
INC. END			24H
INC. DEPTH			IN
INC. EQUIPMENT	---	---	
DN/SG/MMZ			
*** PEST ***			
VELVETLEAF		MED/15 4.00/4.00	IN
RAGWEED, GIANT	HGH/12 2.00/3.00	HGH/19 8.00/8.00	IN
LAMBSQUARTERS, C		MED/19 6.00/6.00	IN
SOYBEAN ASGROW 2703 RR 05/18/2003	---/01 /	---/14 6.00/6.00	IN
SMARTWEED, PENNS		LOW/19 8.00/8.00	IN
FOXTAIL, GIANT		MED/15 6.00/6.00	IN

* TIMING CODES

05 = ----- / EPP 15DBP
 12 = ----- / POST

* STAGE CODE

01 = BEGINNING OF SEED IMBIBITION
 12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
 15 = 5 LEAVES UNFOLDED
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: No-till burndown systems in soybean SW-1600
CREATED: 04/17/2003 **REVISED:** 11/04/2003 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Dekalb **RESEARCHED BY:** UNIV. OF ILL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT **WIDE X** 33.00 FT **LONG** **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	AMBTR	GLXMA	SETFA	AMBTR	CHEAL	GLXMA
		RATE	UNIT		CON % 05/20/03	CON % 06/23/03	CON % 06/23/03	CON % 06/23/03	CON % 06/23/03	CON % 07/09/03
1A	TOUCHDN KPMG 4	0.56	LAA 5		80	0	0	40	0	0
B	LIQUID AMS	2.50	PMV 5							
C	TOUCHDN KPMG 4	0.75	LAA 12							
D	LIQUID AMS	2.50	PMV 12							
2A	WEATHERMAX 4.5	0.56	LAA 5		90	0	0	52	0	0
B	LIQUID AMS	2.50	PMV 5							
C	WEATHERMAX 4.5	0.75	LAA 12							
D	LIQUID AMS	2.50	PMV 12							
3A	(G)2,4-D-ESTER	0.50	LAA 5		99	0	0	57	0	0
B	WEATHERMAX 4.5	0.75	LAA 12							
C	LIQUID AMS	2.50	PMV 12							
4A	WEATHERMAX 4.5	0.56	LAA 5		99	0	0	53	0	0
B	(G)2,4-D-ESTER	0.50	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
5A	EXTREME 2.17L	0.81	LAA 5		98	0	99	72	98	0
B	(G)2,4-D-ESTER	0.50	LAA 5							
C	ACTIVATOR 90	0.125	PMV 5							
D	LIQUID AMS	2.50	PMV 5							
E	WEATHERMAX 4.5	0.75	LAA 12							
F	LIQUID AMS	2.50	PMV 12							
6A	WEATHERMAX 4.5	0.75	LAA 5		99	0	57	96	90	0
B	FIRSTRATE 84WG	0.032	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
7A	CHECK	0.00	NA 0		0	0	0	0	0	0
8A	WEATHERMAX 4.5	0.56	LAA 5		88	0	99	53	86	0
B	PROWL H20 3.8C	1.19	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
9A	WEATHERMAX 4.5	0.56	LAA 5		98	0	99	65	99	0
B	VALOR 51WDG	0.063	LAA 5							
C	COC	1.00	PMV 5							
D	LIQUID AMS	2.50	PMV 5							
E	WEATHERMAX 4.5	0.75	LAA 12							
F	LIQUID AMS	2.50	PMV 12							
10A	WEATHERMAX 4.5	0.56	LAA 5		99	0	96	67	98	0
B	DOMAIN 60DF	0.45	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
11A	GRAMOX MAX 3SL	0.64	LAA 5		98	0	99	70	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	COC	1.00	PMV 5							
D	TOUCHDN KPMG 4	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
12A	TOUCHDN KPMG 4	0.56	LAA 5		95	0	96	57	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	TOUCHDN KPMG 4	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
13A	TOUCHDN KPMG 4	0.56	LAA 5		98	0	99	63	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	FLEXSTAR 1.88M	0.294	LAA 12							
E	FUSION	0.21	LAA 12							

TITLE: No-till burndown systems in soybean SW-1600

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	AMBTR	GLXMA	SETFA	AMBTR	CHEAL	GLXMA
		RATE	UNIT		CON % 05/20/03	CON % 06/23/03	CON % 06/23/03	CON % 06/23/03	CON % 06/23/03	CON % 07/09/03
	F»MSO	1.00		PMV	12					
	G 28% UAN	2.50		PMV	12					
14A»	WEATHERMAX 4.5	0.56	LAA	5	98	0	94	98	99	0
	B»CANOPY XL 56.3	0.148	LAA	0						
	C»AUTHORITY	0.123	LAA	5						
	D CLASSIC 25WG	0.025	LAA	5						
	E»LIQUID AMS	2.50	PMV	5						
	F»WEATHERMAX 4.5	0.75	LAA	12						
	G»LIQUID AMS	2.50	PMV	12						
15A»	GLYPHOMAX HC 5	0.56	LAA	5	98	0	63	73	99	0
	B»PYTHON 80WG	0.063	LAA	5						
	C»LIQUID AMS	2.50	PMV	5						
	D»GLYPHOMAX HC 5	0.75	LAA	12						
	E»LIQUID AMS	2.50	PMV	12						
16A»	WEATHERMAX 4.5	0.56	LAA	5	90	0	91	63	99	0
	B COMMAND 3ME	0.75	LAA	5						
	C»LIQUID AMS	2.50	PMV	5						
	D»WEATHERMAX 4.5	0.75	LAA	12						
	E»LIQUID AMS	2.50	PMV	12						
		LSD (0.05)			10.37	0.00	10.48	14.85	6.40	0.00
		STANDARD DEVIATION			5.08	0.00	5.13	7.27	3.13	0.00

TITLE: No-till burndown systems in soybean SW-1600
CREATED: 04/17/2003 **REVISED:** 11/04/2003 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Dekalb **RESEARCHED BY:** UNIV. OF ILL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT WIDE X 33.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	SETFA	AMBTR	ABUTH	CHEAL	POLPY	GLXMA
		RATE	UNIT		CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/22/03
1A	TOUCHDN KPMG 4	0.56	LAA 5		99	90	99	99	99	0
B	LIQUID AMS	2.50	PMV 5							
C	TOUCHDN KPMG 4	0.75	LAA 12							
D	LIQUID AMS	2.50	PMV 12							
2A	WEATHERMAX 4.5	0.56	LAA 5		99	96	99	98	99	0
B	LIQUID AMS	2.50	PMV 5							
C	WEATHERMAX 4.5	0.75	LAA 12							
D	LIQUID AMS	2.50	PMV 12							
3A	(G)2,4-D-ESTER	0.50	LAA 5		99	94	99	99	96	0
B	WEATHERMAX 4.5	0.75	LAA 12							
C	LIQUID AMS	2.50	PMV 12							
4A	WEATHERMAX 4.5	0.56	LAA 5		99	95	99	98	98	0
B	(G)2,4-D-ESTER	0.50	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
5A	EXTREME 2.17L	0.81	LAA 5		99	95	98	98	99	0
B	(G)2,4-D-ESTER	0.50	LAA 5							
C	ACTIVATOR 90	0.125	PMV 5							
D	LIQUID AMS	2.50	PMV 5							
E	WEATHERMAX 4.5	0.75	LAA 12							
F	LIQUID AMS	2.50	PMV 12							
6A	WEATHERMAX 4.5	0.75	LAA 5		99	97	99	98	99	0
B	FIRSTRATE 84WG	0.032	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
7A	CHECK	0.00	NA 0		0	0	0	0	0	0
8A	WEATHERMAX 4.5	0.56	LAA 5		99	91	98	99	99	0
B	PROWL H20 3.8C	1.19	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
9A	WEATHERMAX 4.5	0.56	LAA 5		99	93	99	99	99	0
B	VALOR 51WDG	0.063	LAA 5							
C	COC	1.00	PMV 5							
D	LIQUID AMS	2.50	PMV 5							
E	WEATHERMAX 4.5	0.75	LAA 12							
F	LIQUID AMS	2.50	PMV 12							
10A	WEATHERMAX 4.5	0.56	LAA 5		99	96	99	99	99	0
B	DOMAIN 60DF	0.45	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	WEATHERMAX 4.5	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
11A	GRAMOX MAX 3SL	0.64	LAA 5		99	93	99	99	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	COC	1.00	PMV 5							
D	TOUCHDN KPMG 4	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
12A	TOUCHDN KPMG 4	0.56	LAA 5		99	92	99	99	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	TOUCHDN KPMG 4	0.75	LAA 12							
E	LIQUID AMS	2.50	PMV 12							
13A	TOUCHDN KPMG 4	0.56	LAA 5		99	94	98	95	99	0
B	BOUNDARY 6.5EC	1.22	LAA 5							
C	LIQUID AMS	2.50	PMV 5							
D	FLEXSTAR 1.88M	0.294	LAA 12							
E	FUSION	0.21	LAA 12							

TITLE: No-till burndown systems in soybean SW-1600

TRT NUM	TREATMENT COMPONENT	DOSAGE		SETFA	AMBTR	ABUTH	CHEAL	POLPY	GLXMA
		RATE	UNIT TM	CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/09/03	CON % 07/22/03
	F»MSO	1.00	PMV 12						
	G 28% UAN	2.50	PMV 12						
14A»	WEATHERMAX 4.5	0.56	LAA 5	99	99	99	99	99	0
	B»CANOPY XL 56.3	0.148	LAA 0						
	C»AUTHORITY	0.123	LAA 5						
	D CLASSIC 25WG	0.025	LAA 5						
	E»LIQUID AMS	2.50	PMV 5						
	F»WEATHERMAX 4.5	0.75	LAA 12						
	G»LIQUID AMS	2.50	PMV 12						
15A»	GLYPHOMAX HC 5	0.56	LAA 5	99	96	99	96	99	0
	B»PYTHON 80WG	0.063	LAA 5						
	C»LIQUID AMS	2.50	PMV 5						
	D»GLYPHOMAX HC 5	0.75	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						
16A»	WEATHERMAX 4.5	0.56	LAA 5	99	92	99	99	99	0
	B COMMAND 3ME	0.75	LAA 5						
	C»LIQUID AMS	2.50	PMV 5						
	D»WEATHERMAX 4.5	0.75	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						
		LSD (0.05)		0.00	4.52	1.45	2.80	2.31	0.00
		STANDARD DEVIATION		0.00	2.22	0.712	1.37	1.13	0.00

TITLE: No-till burndown systems in soybean SW-1600
CREATED: 04/17/2003 **REVISED:** 11/04/2003 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Dekalb **RESEARCHED BY:** UNIV. OF ILL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT **WIDE X** 33.00 FT **LONG** **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	SETFA	AMBTR	ABUTH	CHEAL	POLPY
		RATE	UNIT		CON % 07/22/03	CON % 07/22/03	CON % 07/22/03	CON % 07/22/03	CON % 07/22/03
1A	TOUCHDN KPMG 4	0.56	LAA 5		99	82	96	99	99
B	LIQUID AMS	2.50	PMV 5						
C	TOUCHDN KPMG 4	0.75	LAA 12						
D	LIQUID AMS	2.50	PMV 12						
2A	WEATHERMAX 4.5	0.56	LAA 5		99	92	99	99	99
B	LIQUID AMS	2.50	PMV 5						
C	WEATHERMAX 4.5	0.75	LAA 12						
D	LIQUID AMS	2.50	PMV 12						
3A	(G)2,4-D-ESTER	0.50	LAA 5		99	92	99	99	99
B	WEATHERMAX 4.5	0.75	LAA 12						
C	LIQUID AMS	2.50	PMV 12						
4A	WEATHERMAX 4.5	0.56	LAA 5		99	89	99	99	99
B	(G)2,4-D-ESTER	0.50	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	WEATHERMAX 4.5	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
5A	EXTREME 2.17L	0.81	LAA 5		99	91	99	99	99
B	(G)2,4-D-ESTER	0.50	LAA 5						
C	ACTIVATOR 90	0.125	PMV 5						
D	LIQUID AMS	2.50	PMV 5						
E	WEATHERMAX 4.5	0.75	LAA 12						
F	LIQUID AMS	2.50	PMV 12						
6A	WEATHERMAX 4.5	0.75	LAA 5		99	95	99	98	99
B	FIRSTRATE 84WG	0.032	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	WEATHERMAX 4.5	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
7A	CHECK	0.00	NA 0		0	0	0	0	0
8A	WEATHERMAX 4.5	0.56	LAA 5		99	83	96	99	99
B	PROWL H20 3.8C	1.19	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	WEATHERMAX 4.5	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
9A	WEATHERMAX 4.5	0.56	LAA 5		99	88	99	99	99
B	VALOR 51WDG	0.063	LAA 5						
C	COC	1.00	PMV 5						
D	LIQUID AMS	2.50	PMV 5						
E	WEATHERMAX 4.5	0.75	LAA 12						
F	LIQUID AMS	2.50	PMV 12						
10A	WEATHERMAX 4.5	0.56	LAA 5		99	92	98	99	99
B	DOMAIN 60DF	0.45	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	WEATHERMAX 4.5	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
11A	GRAMOX MAX 3SL	0.64	LAA 5		99	91	99	99	99
B	BOUNDARY 6.5EC	1.22	LAA 5						
C	COC	1.00	PMV 5						
D	TOUCHDN KPMG 4	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
12A	TOUCHDN KPMG 4	0.56	LAA 5		99	83	99	99	99
B	BOUNDARY 6.5EC	1.22	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	TOUCHDN KPMG 4	0.75	LAA 12						
E	LIQUID AMS	2.50	PMV 12						
13A	TOUCHDN KPMG 4	0.56	LAA 5		99	90	94	96	99
B	BOUNDARY 6.5EC	1.22	LAA 5						
C	LIQUID AMS	2.50	PMV 5						
D	FLEXSTAR 1.88M	0.294	LAA 12						
E	FUSION	0.21	LAA 12						

TITLE: No-till burndown systems in soybean SW-1600

TRT NUM	TREATMENT COMPONENT	DOSAGE RATE	UNIT	TM	SETFA CON % 07/22/03	AMBTR CON % 07/22/03	ABUTH CON % 07/22/03	CHEAL CON % 07/22/03	POLPY CON % 07/22/03
	F»MSO	1.00	PMV	12					
	G 28% UAN	2.50	PMV	12					
14A»	WEATHERMAX 4.5	0.56	LAA	5	96	96	99	99	99
	B»CANOPY XL 56.3	0.148	LAA	0					
	C»AUTHORITY	0.123	LAA	5					
	D CLASSIC 25WG	0.025	LAA	5					
	E»LIQUID AMS	2.50	PMV	5					
	F»WEATHERMAX 4.5	0.75	LAA	12					
	G»LIQUID AMS	2.50	PMV	12					
15A»	GLYPHOMAX HC 5	0.56	LAA	5	99	93	99	99	99
	B»PYTHON 80WG	0.063	LAA	5					
	C»LIQUID AMS	2.50	PMV	5					
	D»GLYPHOMAX HC 5	0.75	LAA	12					
	E»LIQUID AMS	2.50	PMV	12					
16A»	WEATHERMAX 4.5	0.56	LAA	5	99	85	98	99	99
	B COMMAND 3ME	0.75	LAA	5					
	C»LIQUID AMS	2.50	PMV	5					
	D»WEATHERMAX 4.5	0.75	LAA	12					
	E»LIQUID AMS	2.50	PMV	12					
		LSD (0.05)			2.17	10.72	4.72	2.19	0.00
		STANDARD DEVIATION			1.06	5.25	2.31	1.07	0.00

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = ----- / UNTREATED TIMING
 05 = ----- / EPP 15DBP 04/29/2003(1)
 12 = ----- / POST 06/23/2003(2)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRTR	SS	NOTE
001	AMBTR	CON %	05/20/2003	03	P	AMBTR		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	GLXMA	CON %	06/23/2003	01	P	GLXMA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	SETFA	CON %	06/23/2003	02	P	SETFA	15	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMBTR	CON %	06/23/2003	03	P	AMBTR	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	CHEAL	CON %	06/23/2003	05	P	CHEAL	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	GLXMA	CON %	07/09/2003	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	CON %	07/09/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMBTR	CON %	07/09/2003	03	P	AMBTR		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	ABUTH	CON %	07/09/2003	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	CHEAL	CON %	07/09/2003	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	POLPY	CON %	07/09/2003	06	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	GLXMA	CON %	07/22/2003	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	SETFA	CON %	07/22/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	AMBTR	CON %	07/22/2003	03	P	AMBTR		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	ABUTH	CON %	07/22/2003	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	CHEAL	CON %	07/22/2003	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	POLPY	CON %	07/22/2003	06	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = ASGROW 2703 RR

* STAGE CODE

14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
 15 = 5 LEAVES UNFOLDED
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED