

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: CL
PH: 6.1
%OM: 1.5
PREV.CROP: ZEAMD - CORN, DENT
%RESIDUE: 0
PLOT WIDTH: 10 X 30 FEET
PLOT AREA: 300 FEET

DESIGN: RCB
REPS: 3

APPL. NUMBER	01	02	03	04	UNIT
TIMINGS	09	12	14	15	
TYPE	LIQMIX	LIQMIX	LIQMIX	LIQMIX	
APPLICATION DATE	05/21/08	06/20/08	07/10/08	07/23/08	AME
AIR TEMPERATURE	70	80	80	77	F
% REL.HUMIDITY	39	54	70	64	
WIND DIRECTION	NORTHWEST	NORTHWEST	SOUTHWEST	NORTHEAST	M/H
WIND SPEED	4.0	4.0	5.0	3.0	
CLOUD COVER	CLEAR	CLEAR	CLEAR	CLEAR	
DEW	---	NO	YES	NO	
SOIL MOISTURE	DRY/MOIST	DRY/MOIST	MOIST/MOI	MOIST/MOI	
SOIL CONDITION	---	---	---	---	
METHOD	SPRAY	SPRAY	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	FLATFAN	
NOZZLE NUMBER	6	6	6	6	
NOZZLE SPACING	20.000	20.000	20.000	20.000	IN
SCREEN SIZE					
SCREEN SZ DESC	NA	NA	NA	NA	
SWATH WIDTH	10.0	10.0	10.0	10.0	FT
SPRAY VOLUME	20.00	20.00	20.00	20.00	
SCREEN SIZE	GPA	GPA	GPA	GPA	
PRESSURE	32.00	32.00	32.00	32.00	PSI
DILUENT	WATER	WATER	WATER	WATER	
INC. DATE					AME
INC. START					24H
INC. END					24H
INC. DEPTH					IN
INC. EQUIPMENT	---	---	---	---	
DENSITY /					
*** CROP ***					
SOYBEAN		---/15	---/63	---/69	
ASGROW 3906		7.00/8.00	14.0/17.0	25.0/28.0	IN
05/20/2008					
*** PEST ***					
LAMBSQUARTERS, C		---/19			
		4.00/8.00			IN
MORNINGGLORY, IV		---/15	---/11		
		2.00/4.00	1.00/1.00		IN
FOXTAIL, GIANT		---/16	---/13		
		2.00/8.00	1.00/2.00		IN
COCKLEBUR, COMMO		---/18			
		3.00/7.00			IN

* TIMING CODES

09 = ----- / PREEMERGENCE
12 = ----- / POST
14 = ----- / VLPOST
15 = ----- / PO.DIRECTED

* STAGE CODE

11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED
13 = 3 LEAVES UNFOLDED
15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
16 = 6 LEAVES UNFOLDED
18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
63 = 30% OF FLOWERS OPEN (DETERMINATE)
69 = END OF FLOWERING, FIRST PODS VISIBLE

TITLE: Weed control systems in soybean. 2404
CREATED: 05/04/2008 **REVISED:** 11/24/2008 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Perry **RESEARCHED BY:** MAXWELL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT WIDE X 30.00 FT LONG
PLOT AREA: 300.00 SFT

REPS: 03

TRT	TREATMENT	DOSAGE		GLXMA	SETFA	IPOHE	XANST	CHEAL	GLXMA
NUM	COMPONENT	RATE	UNIT TM	CON %	CON %	CON %	CON %	CON %	10 DAT
				06/20/08	06/20/08	06/20/08	06/20/08	06/20/08	07/01/08
1A»	VALOR XLT 40WG	0.088	LAA 0	0	96	98	98	95	0
	B CLASSIC 25WG	0.023	LAA 9						
	C VALOR 51WG	0.065	LAA 9						
	D»RNDUP POWERMAX	0.77	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						
2A	GANGSTER FR	0.016	LAA 9	0	86	98	98	98	0
	B GANGSTER V	0.048	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
3A	GANGSTER FR	0.021	LAA 9	0	93	97	99	94	0
	B GANGSTER V	0.064	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
4A	AUTHORITY 75WG	0.129	LAA 9	0	83	91	86	99	0
	B PURSUIT DG (70	0.026	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
5A»	SONIC 70DF	0.131	LAA 9	0	78	95	99	96	0
	B»DURANGO 4AE	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
6A»	SONIC 70DF	0.197	LAA 9	0	87	98	98	98	0
	B»DURANGO 4AE	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
7A»	AUTHORITY MTZ	0.28	LAA 9	0	70	95	78	95	0
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
8A»	AUTHOR. ASSIST	0.156	LAA 9	0	78	95	98	98	0
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
9A	PROWL H2O 3.8	1.19	LAA 9	0	82	65	82	85	0
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
10A	PROWL H2O 3.8	1.19	LAA 9	0	78	47	83	92	0
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
	D HEADLINE 2.09E	0.098	LAA 15						
	E»ACTIVATOR 90	0.125	PMV 15						
11A	PURSUIT +	0.91	LAA 9	0	97	96	98	97	0
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
12A»	BOUNDARY 6.5EC	1.22	LAA 9	0	95	40	98	97	0
	B»TOUCHDN TOTAL	0.78	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
13A»	PREFIX 5.32SL	1.33	LAA 9	0	96	47	98	94	0
	B»TOUCHDN TOTAL	0.78	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
14A»	INTRRO 4EC	2.00	LAA 9	0	93	30	72	90	0
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
15A	CLASSIC 25WG	0.005	LAA 9	0	87	82	99	96	0
	B»HARMONY 50SG	0.016	LAA 9						
	C VALOR 51WG	0.063	LAA 9						
	D»RNDUP POWERMAX	0.77	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						

TITLE: Weed control systems in soybean. 2404

TRT	TREATMENT	DOSAGE	GLXMA	SETFA	IPOHE	XANST	CHEAL	GLXMA
NUM	COMPONENT	RATE	UNIT	CON %	CON %	CON %	CON %	10 DAT
			TM	06/20/08	06/20/08	06/20/08	06/20/08	07/01/08
16A	CHECK	0.00	NA	0	0	0	0	0
17A	»RNDUP POWERMAX	0.77	LAA	12	C	C	C	2
	B FIRSTRATE 84WG	0.016	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
18A	»RNDUP POWERMAX	0.77	LAA	12	C	C	C	8
	B COBRA 2EC	0.094	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
19A	»RNDUP POWERMAX	0.77	LAA	12	C	C	C	9
	B COBRA 2EC	0.094	LAA	12				
	C»COC	1.00	PMV	12				
	D»LIQUID AMS	2.50	PMV	12				
20A	»DURANGO 4AE	0.75	LAA	12	C	C	C	0
	B FIRSTRATE 84WG	0.016	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
	D»DURANGO 4AE	0.75	LAA	14				
	E»LIQUID AMS	2.50	PMV	14				
LSD (0.05)				0.00	4.21	15.27	17.29	1.13
STANDARD DEVIATION				0.00	2.08	7.55	8.55	0.557

TITLE: Weed control systems in soybean. 2404
CREATED: 05/04/2008 **REVISED:** 11/24/2008 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Perry **RESEARCHED BY:** MAXWELL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT WIDE X 30.00 FT LONG
PLOT AREA: 300.00 SFT

REPS: 03

TRT	TREATMENT	DOSAGE		SETFA	IPOHE	XANST	CHEAL	GLXMA	SETFA
NUM	COMPONENT	RATE	UNIT TM	10 DAT 07/01/08	10 DAT 07/01/08	10 DAT 07/01/08	10 DAT 07/01/08	30 DAT 07/23/08	30 DAT 07/23/08
1A»	VALOR XLT 40WG	0.088	LAA 0	97	96	99	97	0	85
	B CLASSIC 25WG	0.023	LAA 9						
	C VALOR 51WG	0.065	LAA 9						
	D»RNDUP POWERMAX	0.77	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						
2A	GANGSTER FR	0.016	LAA 9	95	95	98	99	0	75
	B GANGSTER V	0.048	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
3A	GANGSTER FR	0.021	LAA 9	97	96	99	99	0	78
	B GANGSTER V	0.064	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
4A	AUTHORITY 75WG	0.129	LAA 9	98	96	98	99	0	80
	B PURSUIT DG (70	0.026	LAA 9						
	C»RNDUP POWERMAX	0.77	LAA 12						
	D»LIQUID AMS	2.50	PMV 12						
5A»	SONIC 70DF	0.131	LAA 9	96	94	97	98	0	73
	B»DURANGO 4AE	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
6A»	SONIC 70DF	0.197	LAA 9	97	96	98	99	0	80
	B»DURANGO 4AE	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
7A»	AUTHORITY MTZ	0.28	LAA 9	96	95	98	99	0	77
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
8A»	AUTHOR. ASSIST	0.156	LAA 9	97	96	99	99	0	78
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
9A	PROWL H2O 3.8	1.19	LAA 9	97	87	99	99	0	80
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
10A	PROWL H2O 3.8	1.19	LAA 9	97	82	99	99	0	82
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
	D HEADLINE 2.09E	0.098	LAA 15						
	E»ACTIVATOR 90	0.125	PMV 15						
11A	PURSUIT +	0.91	LAA 9	98	93	98	98	0	90
	B»RNDUP POWERMAX	0.75	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
12A»	BOUNDARY 6.5EC	1.22	LAA 9	98	82	99	99	0	92
	B»TOUCHDN TOTAL	0.78	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
13A»	PREFIX 5.32SL	1.33	LAA 9	99	84	98	99	0	94
	B»TOUCHDN TOTAL	0.78	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
14A»	INTRRO 4EC	2.00	LAA 9	97	68	97	98	0	75
	B»RNDUP POWERMAX	0.77	LAA 12						
	C»LIQUID AMS	2.50	PMV 12						
15A	CLASSIC 25WG	0.005	LAA 9	95	92	99	99	0	75
	B»HARMONY 50SG	0.016	LAA 9						
	C VALOR 51WG	0.063	LAA 9						
	D»RNDUP POWERMAX	0.77	LAA 12						
	E»LIQUID AMS	2.50	PMV 12						

TITLE: Weed control systems in soybean. 2404

TRT	TREATMENT	DOSAGE	SETFA	IPOHE	XANST	CHEAL	GLXMA	SETFA
NUM	COMPONENT	RATE	UNIT	TM	10 DAT	10 DAT	10 DAT	30 DAT
					07/01/08	07/01/08	07/01/08	07/23/08
16A	CHECK	0.00	NA	0	0	0	0	0
17A	»RNDUP POWERMAX	0.77	LAA	12	98	87	99	98
	B FIRSTRATE 84WG	0.016	LAA	12				0
	C»LIQUID AMS	2.50	PMV	12				87
18A	»RNDUP POWERMAX	0.77	LAA	12	97	87	98	98
	B COBRA 2EC	0.094	LAA	12				0
	C»LIQUID AMS	2.50	PMV	12				75
19A	»RNDUP POWERMAX	0.77	LAA	12	97	87	99	98
	B COBRA 2EC	0.094	LAA	12				0
	C»COC	1.00	PMV	12				78
	D»LIQUID AMS	2.50	PMV	12				
20A	»DURANGO 4AE	0.75	LAA	12	97	97	99	99
	B FIRSTRATE 84WG	0.016	LAA	12				0
	C»LIQUID AMS	2.50	PMV	12				96
	D»DURANGO 4AE	0.75	LAA	14				
	E»LIQUID AMS	2.50	PMV	14				
LSD (0.05)					1.15	7.00	1.89	1.23
STANDARD DEVIATION					0.571	3.47	0.935	0.607
							0.00	0.00
								6.09
								3.00

TITLE: Weed control systems in soybean. 2404
CREATED: 05/04/2008 **REVISED:** 11/24/2008 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Perry **RESEARCHED BY:** MAXWELL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT WIDE X 30.00 FT LONG
PLOT AREA: 300.00 SFT

REPS: 03

TRT	TREATMENT	DOSAGE		IPOHE	XANST	CHEAL	YIELD
NUM	COMPONENT	RATE	UNIT TM	30 DAT 07/23/08	30 DAT 07/23/08	30 DAT 07/23/08	BU/A 10/12/08
1A»	VALOR XLT 40WG	0.088	LAA 0	96	98	99	47.6
	B CLASSIC 25WG	0.023	LAA 9				
	C VALOR 51WG	0.065	LAA 9				
	D»RNDUP POWERMAX	0.77	LAA 12				
	E»LIQUID AMS	2.50	PMV 12				
2A	GANGSTER FR	0.016	LAA 9	68	98	99	47.8
	B GANGSTER V	0.048	LAA 9				
	C»RNDUP POWERMAX	0.77	LAA 12				
	D»LIQUID AMS	2.50	PMV 12				
3A	GANGSTER FR	0.021	LAA 9	75	96	99	49.8
	B GANGSTER V	0.064	LAA 9				
	C»RNDUP POWERMAX	0.77	LAA 12				
	D»LIQUID AMS	2.50	PMV 12				
4A	AUTHORITY 75WG	0.129	LAA 9	88	83	99	49.7
	B PURSUIT DG (70	0.026	LAA 9				
	C»RNDUP POWERMAX	0.77	LAA 12				
	D»LIQUID AMS	2.50	PMV 12				
5A»	SONIC 70DF	0.131	LAA 9	83	93	99	47.4
	B»DURANGO 4AE	0.75	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
6A»	SONIC 70DF	0.197	LAA 9	90	99	99	48.0
	B»DURANGO 4AE	0.75	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
7A»	AUTHORITY MTZ	0.28	LAA 9	85	93	99	46.9
	B»RNDUP POWERMAX	0.77	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
8A»	AUTHOR. ASSIST	0.156	LAA 9	85	99	99	46.1
	B»RNDUP POWERMAX	0.77	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
9A	PROWL H2O 3.8	1.19	LAA 9	70	96	98	44.5
	B»RNDUP POWERMAX	0.75	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
10A	PROWL H2O 3.8	1.19	LAA 9	70	99	98	52.9
	B»RNDUP POWERMAX	0.75	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
	D HEADLINE 2.09E	0.098	LAA 15				
	E»ACTIVATOR 90	0.125	PMV 15				
11A	PURSUIT +	0.91	LAA 9	72	91	99	47.2
	B»RNDUP POWERMAX	0.75	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
12A»	BOUNDARY 6.5EC	1.22	LAA 9	73	98	96	52.5
	B»TOUCHDN TOTAL	0.78	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
13A»	PREFIX 5.32SL	1.33	LAA 9	83	89	98	51.4
	B»TOUCHDN TOTAL	0.78	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
14A»	INTRRO 4EC	2.00	LAA 9	72	93	92	52.3
	B»RNDUP POWERMAX	0.77	LAA 12				
	C»LIQUID AMS	2.50	PMV 12				
15A	CLASSIC 25WG	0.005	LAA 9	73	93	99	51.3
	B»HARMONY 50SG	0.016	LAA 9				
	C VALOR 51WG	0.063	LAA 9				
	D»RNDUP POWERMAX	0.77	LAA 12				
	E»LIQUID AMS	2.50	PMV 12				

TITLE: Weed control systems in soybean. 2404

TRT	TREATMENT	DOSAGE		IPOHE	XANST	CHEAL	YIELD	
NUM	COMPONENT	RATE	UNIT	TM	30 DAT	30 DAT	30 DAT	BU/A
					07/23/08	07/23/08	07/23/08	10/12/08
16A	CHECK	0.00	NA	0	0	0	0	13.5
17A	»RNDUP POWERMAX	0.77	LAA	12	88	99	93	42.1
	B FIRSTRATE 84WG	0.016	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
18A	»RNDUP POWERMAX	0.77	LAA	12	73	93	93	42.9
	B COBRA 2EC	0.094	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
19A	»RNDUP POWERMAX	0.77	LAA	12	68	93	78	45.1
	B COBRA 2EC	0.094	LAA	12				
	C»COC	1.00	PMV	12				
	D»LIQUID AMS	2.50	PMV	12				
20A	»DURANGO 4AE	0.75	LAA	12	99	99	99	46.7
	B FIRSTRATE 84WG	0.016	LAA	12				
	C»LIQUID AMS	2.50	PMV	12				
	D»DURANGO 4AE	0.75	LAA	14				
	E»LIQUID AMS	2.50	PMV	14				
LSD (0.05)					8.00	13.56	2.80	5.41
STANDARD DEVIATION					3.94	6.71	1.39	2.68

» = SUPPLEMENTAL CHEMICAL

---,M,C,D = MISSING DATA

* TIMING CODES

00 = ----- / UNTREATED TIMING
 09 = ----- / PREEMERGENCE 05/21/2008(1)
 12 = ----- / POST 06/20/2008(2)
 14 = ----- / VLPOST 07/10/2008(3)
 15 = ----- / PO.DIRECTED 07/23/2008(4)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	GLXMA	CON %	06/20/2008	01	P	GLXMA	15	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/20/2008	02	P	SETFA	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	IPOHE	CON %	06/20/2008	03	P	IPOHE	15	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	XANST	CON %	06/20/2008	04	P	XANST	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	CHEAL	CON %	06/20/2008	05	P	CHEAL	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	GLXMA	10 DAT	07/01/2008	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	10 DAT	07/01/2008	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	IPOHE	10 DAT	07/01/2008	03	P	IPOHE		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	XANST	10 DAT	07/01/2008	04	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	CHEAL	10 DAT	07/01/2008	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	GLXMA	30 DAT	07/23/2008	01	P	GLXMA	69	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	SETFA	30 DAT	07/23/2008	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	IPOHE	30 DAT	07/23/2008	03	P	IPOHE		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	XANST	30 DAT	07/23/2008	04	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	CHEAL	30 DAT	07/23/2008	05	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	YIELD	BU/A	10/12/2008	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

* SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)

01 = ASGROW 3906

* STAGE CODE

15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES
 15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 16 = 6 LEAVES UNFOLDED
 18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 69 = END OF FLOWERING, FIRST PODS VISIBLE