

(01-LCC-2)

Postemergence applied Steadfast with various tank-mixtures for woolly cupgrass control in Liberty Link corn, Lewis, Iowa, 2001. Owen, Micheal D.K., James F. Lux, and Damian D. Franzenburg. The purpose of this study was to evaluate sulfonylurea herbicides for woolly cupgrass efficacy and crop phytotoxicity on a glufosinate resistant corn hybrid. The soil was a Marshall, Exira, silty clay loam with a pH 6.0 and 5.0% organic matter. The experimental design was a randomized complete block with three replications and plots were 10 by 25 ft. The 2000 crop was soybean. Fertilization included 130 lb/A actual N applied as anhydrous ammonia. Tillage included a spring cultivation. Crop residue on the soil surface was 20 to 25% at planting. "Pioneer hybrid 33P69 LL" corn was planted 2 inches deep on May 9, at 30,200 seeds/A in 30-inch rows. May rainfall included: 0.44, 0.84, 0.23, 0.49, 0.41, 0.33, 0.05, 1.35, 1.78, 0.06, 0.01, 0.01, 0.09, 0.13, 0.02, 1.2 and 0.34 inches on May 1, 2, 3, 4, 9, 10, 12, 13, 20, 23, 24, 25, 27, 28, 29, 30 and 31, respectively. Total rainfall for May was 7.79 inches. June rainfall included: 0.20, 0.15, 0.44, 0.74, 0.46, 0.43, 0.20, 0.03 and 0.01 inches on June 1, 4, 5, 10, 14, 18, 19, 20 and 21, respectively. Total rainfall for June was 2.66 inches. July rainfall included: 0.60 inches and 0.46 inches from July 1 through 15 and 16 through 31, respectively. Rainfall total for August was 1.65 inches. Application information is listed below:

Date	May 9	June 13
Treatment	PRE	POST
Sprayer		
gpa	20	20
psi	30	30
nozzle	11002	11002
Temperature (C)		
air	24	32
soil (4 inch)	14	27
Soil moisture	dry	dry
Wind (mph)	10-15 SW	8-15 SE
Sky	clear	pt. cloudy
Relative humidity (%)	38%	56%
Corn growth		
leaf no.	-	V5
height (inch)	-	6-7
Woolly cupgrass		
leaf no.	-	2-4, 0-4 tillers
height (inch)	-	0.25-4
infestation (ft ²)	-	0-10
Common lambsquarters		
leaf no.	-	cotyl-numerous
height (inch)	-	0.25-3
infestation (ft ²)	-	0-1
Common waterhemp		
leaf no.	-	cotyl-numerous
height (inch)	-	0.25-4
infestation (ft ²)	-	0-10

Significant differences in corn population were not a result of herbicide treatment, but due to variable emergence. PRE applied herbicides provided 68 to 77% woolly cupgrass control on June 13, prior to sequential POST applications. Common waterhemp control ranged from 75 to 90% with these treatments. No

corn injury was noted on June 26 or July 12 from POST applications. Steadfast alone and in various POST applied tank-mixture combinations provided 80 to 88% woolly cupgrass control when observed on June 26. Liberty plus Atrazine applied POST achieved 96% control. Eighty-eight to 95% woolly cupgrass control was noted with POST applied Steadfast in combination with Callisto or Marksman following a PRE treatment. Poor to excellent common waterhemp control was noted on June 26. POST applied treatments of Steadfast, DPX-79406 and Accent alone did not control common waterhemp, nor did Steadfast in tank-mixture with Atrazine or Hornet WDG, and DPX-79406 plus Hornet WDG plus Atrazine. Common lambsquarters control when noted on June 26 was good to excellent with nearly all POST applied treatments. DPX-79406 alone and Steadfast plus Hornet WDG did not provide acceptable control of common lambsquarters. On July 12 and August 17, weed control reflected earlier treatment trends, but with diminished control. (Dept. of Agronomy, Iowa State University, Ames)

DATA MEAN

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CREATED: 06/05/2001 **REVISED:** 11/30/2001

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: LEWIS, IA

RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT **WIDE X** 25.00 FT **LONG**

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	ERBVI	AMATA	ZEAMD
		RATE	UNIT		17.5 FT	PHY %	CON %	CON %	PHY %
					06/28/01	06/13/01	06/13/01	06/13/01	06/26/01
1A	UNTREATED CHECK	0.00	NA	0	20	0	0	0	0
2A	»STEADFAST (75WDG)	0.035	LAA	2	23	0	0	0	0
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
3A	»DPX-79406 (75WG)	0.023	LAA	2	24	0	0	0	0
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
4A	ACCENT (75WG)	0.031	LAA	2	21	0	0	0	0
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
5A	»STEADFAST (75WDG)	0.035	LAA	2	23	0	0	0	0
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
6A	»STEADFAST (75WDG)	0.035	LAA	2	22	0	0	0	0
	B MARKSMAN (3.2SC)	0.40	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
7A	»STEADFAST (75WDG)	0.035	LAA	2	24	0	0	0	0
	B ATRAZINE 90DF (WG)	0.45	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
8A	»STEADFAST (75WDG)	0.035	LAA	2	24	0	0	0	0
	B»HORNET WDG (68.5WG)	0.0856	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
9A	»STEADFAST (75WDG)	0.035	LAA	2	24	0	0	0	0
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
10A	»STEADFAST (75WDG)	0.035	LAA	2	22	0	0	0	0
	B»CALLISTO (4SC)	0.063	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
11A	»STEADFAST (75WDG)	0.035	LAA	2	23	0	0	0	0
	B»CALLISTO (4SC)	0.063	LAA	2					
	C ATRAZINE 90DF (WG)	0.225	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
12A	»STEADFAST (75WDG)	0.035	LAA	2	22	0	0	0	0
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
13A	»STEADFAST (75WDG)	0.035	LAA	2	22	0	0	0	0
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
14A	»STEADFAST (75WDG)	0.035	LAA	2	24	0	0	0	0
	B CLARITY (4SL)	0.25	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					

DATA MEAN

TITLE: Postemergence applied Steadfast with various tank-mixtures for woolly cupgrass control in Liberty Link corn.

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	ZEAMD	ERBVI	AMATA	ZEAMD
		RATE	UNIT		17.5 FT 06/28/01	PHY % 06/13/01	CON % 06/13/01	CON % 06/13/01	PHY % 06/26/01
15A	ACCENT (75WG)	0.031	LAA	2	23	0	0	0	0
	B»DISTINCT (70WG)	0.175	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
16A»	LIBERTY (1.67SL)	0.313	LAA	2	23	0	0	0	0
	B ATRAZINE 90DF (WG)	1.00	LAA	2					
	C»AMMONIUM SULFATE	3.00	LMA	2					
17A»	DPX-79406 (75WG)	0.023	LAA	2	23	0	0	0	0
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C ATRAZINE 90DF (WG)	0.45	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
18A»	LEADOFF (5SL)	0.94	LAA	1	23	0	77	85	0
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C»CALLISTO (4SC)	0.063	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
19A»	LEADOFF (5SL)	0.94	LAA	1	22	0	75	87	0
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
20A»	DUAL II MAGNUM (7.64EC)	0.64	LAA	1	24	0	70	75	0
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
21A	HARNES (7EC)	0.875	LAA	1	26	0	77	90	0
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
22A»	DUAL II MAGNUM (7.64EC)	0.64	LAA	1	20	0	68	83	0
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
LSD (0.05)					4.56	0.00	10.50	7.78	0.00

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LOCATION: LEWIS, IA

RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT **WIDE X** 25.00 FT **LONG**

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			ERBVI CON % 06/26/01	AMATA CON % 06/26/01	CHEAL CON % 06/26/01	ZEAMD PHY % 07/12/01	ERBVI CON % 07/12/01
		RATE	UNIT	TM					
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	»STEADFAST (75WDG)	0.035	LAA	2	85	67	85	0	73
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
3A	»DPX-79406 (75WG)	0.023	LAA	2	80	70	62	0	67
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
4A	»ACCENT (75WG)	0.031	LAA	2	87	67	88	0	68
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
5A	»STEADFAST (75WDG)	0.035	LAA	2	87	85	95	0	65
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
6A	»STEADFAST (75WDG)	0.035	LAA	2	87	83	99	0	77
	B MARKSMAN (3.2SC)	0.40	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
7A	»STEADFAST (75WDG)	0.035	LAA	2	83	62	87	0	70
	B ATRAZINE 90DF (WG)	0.45	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
8A	»STEADFAST (75WDG)	0.035	LAA	2	85	63	75	0	72
	B»HORNET WDG (68.5WG)	0.0856	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
9A	»STEADFAST (75WDG)	0.035	LAA	2	87	93	95	0	72
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
10A	»STEADFAST (75WDG)	0.035	LAA	2	80	90	99	0	50
	B»CALLISTO (4SC)	0.063	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
11A	»STEADFAST (75WDG)	0.035	LAA	2	87	98	99	0	77
	B»CALLISTO (4SC)	0.063	LAA	2					
	C ATRAZINE 90DF (WG)	0.225	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
12A	»STEADFAST (75WDG)	0.035	LAA	2	82	90	92	0	63
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
13A	»STEADFAST (75WDG)	0.035	LAA	2	88	83	88	0	70
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
14A	»STEADFAST (75WDG)	0.035	LAA	2	87	87	91	0	70
	B CLARITY (4SL)	0.25	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					

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TRT NUM	TREATMENT COMPONENT	DOSAGE			ERBVI	AMATA	CHEAL	ZEAMD	ERBVI
		RATE	UNIT	TM	CON % 06/26/01	CON % 06/26/01	CON % 06/26/01	PHY % 07/12/01	CON % 07/12/01
15A	ACCENT (75WG)	0.031	LAA	2	82	92	96	0	70
	B»DISTINCT (70WG)	0.175	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
16A	»LIBERTY (1.67SL)	0.313	LAA	2	96	87	99	0	93
	B ATRAZINE 90DF (WG)	1.00	LAA	2					
	C»AMMONIUM SULFATE	3.00	LMA	2					
17A	»DPX-79406 (75WG)	0.023	LAA	2	75	58	82	0	58
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C ATRAZINE 90DF (WG)	0.45	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
18A	»LEADOFF (5SL)	0.94	LAA	1	90	99	99	0	77
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C»CALLISTO (4SC)	0.063	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
19A	»LEADOFF (5SL)	0.94	LAA	1	93	96	99	0	83
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
20A	»DUAL II MAGNUM (7.64EC)	0.64	LAA	1	88	95	98	0	77
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
21A	HARNES (7EC)	0.875	LAA	1	95	99	99	0	85
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
22A	»DUAL II MAGNUM (7.64EC)	0.64	LAA	1	68	93	87	0	58
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
		LSD (0.05)			10.53	15.60	12.70	0.00	20.06

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RESEARCHED BY: IA State University

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT **WIDE X** 25.00 FT **LONG**

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			AMATA	CHEAL	ERBVI	AMATA	CHEAL
		RATE	UNIT	TM	CON % 07/12/01	CON % 07/12/01	CON % 08/17/01	CON % 08/17/01	CON % 08/17/01
1A	UNTREATED CHECK	0.00	NA	0	0	0	0	0	0
2A	»STEADFAST (75WDG)	0.035	LAA	2	47	88	72	45	88
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
3A	»DPX-79406 (75WG)	0.023	LAA	2	45	53	63	40	52
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
4A	»ACCENT (75WG)	0.031	LAA	2	55	90	70	47	91
	B»28%N	2.00	QMA	2					
	C»CROP OIL CONCENTRATE	1.00	PMV	2					
5A	»STEADFAST (75WDG)	0.035	LAA	2	78	99	60	77	99
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
6A	»STEADFAST (75WDG)	0.035	LAA	2	83	99	73	80	99
	B MARKSMAN (3.2SC)	0.40	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
7A	»STEADFAST (75WDG)	0.035	LAA	2	45	90	65	42	90
	B ATRAZINE 90DF (WG)	0.45	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
8A	»STEADFAST (75WDG)	0.035	LAA	2	50	80	72	43	78
	B»HORNET WDG (68.5WG)	0.0856	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
9A	»STEADFAST (75WDG)	0.035	LAA	2	93	99	67	95	99
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
10A	»STEADFAST (75WDG)	0.035	LAA	2	90	99	45	90	99
	B»CALLISTO (4SC)	0.063	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
11A	»STEADFAST (75WDG)	0.035	LAA	2	98	99	75	98	99
	B»CALLISTO (4SC)	0.063	LAA	2					
	C ATRAZINE 90DF (WG)	0.225	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
12A	»STEADFAST (75WDG)	0.035	LAA	2	92	98	60	92	98
	B»DISTINCT (70WG)	0.088	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
13A	»STEADFAST (75WDG)	0.035	LAA	2	70	98	67	70	99
	B CLARITY (4SL)	0.125	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
14A	»STEADFAST (75WDG)	0.035	LAA	2	85	99	70	83	99
	B CLARITY (4SL)	0.25	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					

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TRT NUM	TREATMENT COMPONENT	DOSAGE			AMATA	CHEAL	ERBVI	AMATA	CHEAL
		RATE	UNIT	TM	CON % 07/12/01	CON % 07/12/01	CON % 08/17/01	CON % 08/17/01	CON % 08/17/01
15A	ACCENT (75WG)	0.031	LAA	2	93	99	65	95	99
	B»DISTINCT (70WG)	0.175	LAA	2					
	C»28%N	2.00	QMA	2					
	D»NIS	0.25	PMV	2					
16A»	LIBERTY (1.67SL)	0.313	LAA	2	78	99	92	72	99
	B ATRAZINE 90DF (WG)	1.00	LAA	2					
	C»AMMONIUM SULFATE	3.00	LMA	2					
17A»	DPX-79406 (75WG)	0.023	LAA	2	53	98	53	48	98
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C ATRAZINE 90DF (WG)	0.45	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
18A»	LEADOFF (5SL)	0.94	LAA	1	99	99	73	99	99
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C»CALLISTO (4SC)	0.063	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
19A»	LEADOFF (5SL)	0.94	LAA	1	90	99	80	87	99
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
20A»	DUAL II MAGNUM (7.64EC)	0.64	LAA	1	91	99	72	91	99
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
21A	HARNESS (7EC)	0.875	LAA	1	96	99	83	95	99
	B»STEADFAST (75WDG)	0.035	LAA	2					
	C MARKSMAN (3.2SC)	0.40	LAA	2					
	D»28%N	2.00	QMA	2					
	E»CROP OIL CONCENTRATE	1.00	PMV	2					
22A»	DUAL II MAGNUM (7.64EC)	0.64	LAA	1	88	77	55	88	77
	B»HORNET WDG (68.5WG)	0.128	LAA	2					
	C»28%N	2.00	QMA	2					
	D»CROP OIL CONCENTRATE	1.00	PMV	2					
LSD (0.05)					18.00	12.00	21.84	18.87	12.84

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = UNTRCHK / UNTREATED TIMING (FP)
 01 = PREPRE / PRE 05/09/2001(1)
 02 = POSPOS / POST 06/13/2001(2)