

# University of Georgia

**Pepper growth on LDPE and metalized mulch when using methyl bromide alternatives.**

Trial ID: Veg22-06  
 Location: TVP

Study Dir.: Culpepper, Sumner, Davis  
 Investigator: Stanley Culpepper

Reps: 3                      Plots: 6 by 30 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .69451)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product Measure	Plot No. 1	Plot No. 2	Plot No. 3	By Rep
1	Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil									101	202	301	
2	Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)									102	201	302	
3	MIDAS 50:50 400 lb LDPE black/black 1.25 mil									103	204	303	
4	MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)									104	203	304	
5	MB 67:33 400 lb LDPE black/black 1.25 mil									107	208	305	
6	MB 67:33 400 lb Metalized smooth 1.3 mil (striped)									108	207	306	
7	None LDPE black/black 1.25 mil									105	206	307	
8	None Metalized smooth 1.3 mil (striped)									106	205	308	

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
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\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Evaluate pepper growth when MB fumigant alternatives were applied under LDPE or metalized mulch in a weed free environment.

GAS EMISSION:

1. Gas measurements were taken with GAS-TEC MODEL GV-100 GAS SAMPLING PUMP WITH STANDARD DETECTOR TUBS FOR EACH GAS. A 6.5 inch funnel was glued upside down to the top of each mulch to eliminate cross contamination. At time of measurement a stopper with the detector tub was inserted into the funnel with the measurement made.
2. Reported data has two sets of results for treatments 2, 4, and 6. At the top of each column one will note the word either silver or strip. When measuring the metalized mulch, which had a black heat strip down the middle which was not metalized, measurements were taken on the metalized component (noted silver) or in the center of the heat strip (noted strip).

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3. Chloropicrin was the only gas measured from the 3 way treatment.
  1. No Pic was detected at 1 hour after fumigation.
  2. At 24 and 48 hr, the metalized mulch reduced emissions 11 X and 2 X, respectively, compared to LDPE.
  3. Cumulative emission showed 4X less Pic emission from the metalized component compared to the LDPE.
  4. Measurements taken from the LDPE and heat strip were similar.
4. MIDAS.
  1. Emissions were similar for metalized mulch area and LDPE at 1 hr and 48 hour.
  2. Emissions were 2.5 X greater on LDPE when compared to metalized mulch area at 24 hr.
  3. Measurements taken from the LDPE and heat strip area were similar.
5. MB.
  1. Emissions were 8 to 50 times less in areas with metalized mulch compared to LDPE.
  2. Measurements taken from the LDPE and heat strip area were similar.

VISUAL INJURY (pepper transplanted 20 d after fumigation, holes poked and crop planted simultaneously):

1. Methyl bromide caused less than 7% visual stunting regardless of mulch type.
2. MIDAS applied under LDPE mulch caused little injury but injury was severe when applied under metalized mulch (23%).
3. Telone/Pic/Vapam applied under LDPE mulch stunted pepper 10% and stunted pepper 43% when applied under metalized mulch.

PEPPER HEIGHTS (20 plants per plot measured 28 d after transplanting):

1. Compared to the non-treated, all fumigants reduced plant heights.
2. Compared to MB under LDPE mulch, Telone/Pic/Vapam or MIDAS under metalized mulch reduced plant growth at least 20%.

YIELDS: (Jumbo pepper were harvested four times):

1. At harvest 1 and for the total harvest, yields were generally less when applying Telone/Pic/Vapam or MIDAS under metalized mulch. Additionally, trends for less yield at harvest 1 for Telone/Pic/Vapam were noted on LDPE mulch because of early season stunting.

CONCLUSIONS:

1. Metalized mulches used to reduce fumigant loss will thereby increase plant back injury issues even at 20 d after fumigation.
2. Silver mulch in the early spring will likely not be acceptable because of cooler soils which future reducing fumigant losses and reduce plant vigor thereby negatively impacting the ability of the crop to sustain minimal fumigant injury.

GENERAL INFORMATION:

Mulch Information:

1. LDPE was a black on black mulch 1.25 mil.
2. Metalized mulch was silver on black with a black strip down the center of the silver side. Silver side with the black strip was laid up.

Application Information:

1. MB, MIDAS and Chloropicrin applied with a super bedder plastic layer injecting fumigant 8 inches deep with three knives for a 32 inch bed top.
2. Telone II applied 12 inches deep with a yetter rig.
3. Vapam applied 4 inches deep with knives 4 inches apart on a 32 inch bed top.

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Trial ID: Veg22-06

Study Dir.: Culpepper, Sumner, Davis

Location: TVP

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Weed Code	Fumigant emission silver -1hr	Fumigant emission silver -24h	Fumigant emission silver -48h	Cumulative emission silver	Fumigant emission strip -1hr	Fumigant emission strip -24h	Fumigant emission strip -48h	Cumulative emission strip									
Crop Code	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm									
Rating Data Type																	
Rating Unit																	
Rating Date																	
Trt-Eval Interval				T4				T5									
ARM Action Codes																	
# Subsamples, Dec.																	
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8						
1	Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil	0	a	6	a	7	a	13	a	0	a	6	a	7	a	13	a
2	Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)	0	a	1	b	3	a	4	b	0	a	5	a	7	a	12	a
3	MIDAS 50:50 400 lb LDPE black/black 1.25 mil																
4	MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)																
5	MB 67:33 400 lb LDPE black/black 1.25 mil																
6	MB 67:33 400 lb Metalized smooth 1.3 mil (striped)																
7	None LDPE black/black 1.25 mil																
8	None Metalized smooth 1.3 mil (striped)																
LSD (P=.05)		0.0		1.9		6.4		8.1		0.0		1.4		10.8		11.7	
Standard Deviation		0.0		0.5		1.8		2.3		0.0		0.4		3.1		3.3	
CV		0.0		17.52		35.69		28.39		0.0		7.42		44.03		26.73	
Bartlett's X2		0.0		0.31		0.025		0.0		0.0		0.866		0.558		0.705	
P(Bartlett's X2)		.		0.577		0.875		0.985		.		0.352		0.455		0.401	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 4: T4 = [C1]+[C2]+[C3]

Column 8: T5 = [C5]+[C6]+[C7]

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Weed Code	Fumigant emission silver -1hr ppm	Fumigant emission silver -24h ppm	Fumigant emission silver -48h ppm	Cumulati emission silver ppm	Fumigant emission strip -1hr ppm	Fumigant emission strip -24h ppm	Fumigant emission strip-48h ppm	Cumulati emission strip ppm			
Crop Code											
Rating Data Type											
Rating Unit											
Rating Date											
Trt-Eval Interval											
ARM Action Codes				T6				T7			
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil										
2	Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)										
3	MIDAS 50:50 400 lb LDPE black/black 1.25 mil	6 a		27 a		13 a	46 a	6 b	27 a	13 a	46 b
4	MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)	7 a		10 b		15 a	32 a	41 a	41 a	28 a	110 a
5	MB 67:33 400 lb LDPE black/black 1.25 mil										
6	MB 67:33 400 lb Metalized smooth 1.3 mil (striped)										
7	None LDPE black/black 1.25 mil										
8	None Metalized smooth 1.3 mil (striped)										
LSD (P=.05)	10.0	13.7	29.6	39.0	26.1	42.6	18.0	46.9			
Standard Deviation	2.9	3.9	8.4	11.1	7.4	12.1	5.1	13.3			
CV	43.97	21.24	60.26	28.58	31.38	35.86	25.16	17.15			
Bartlett's X2	0.083	0.164	0.866	2.787	0.01	1.323	0.438	2.441			
P(Bartlett's X2)	0.773	0.686	0.352	0.095	0.92	0.25	0.508	0.118			

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 12: T6 = [C9]+[C10]+[C11]

Column 16: T7 = [C13]+[C14]+[C15]

# University of Georgia

Weed Code	Fumigant emission silver -1hr ppm	Fumigant emission silver -24h ppm	Fumigant emission silver -48h ppm	Cumulati emission silver ppm	Fumigant emission strip -1hr ppm	Fumigant emission strip -24h ppm	Fumigant emission strip-48h ppm	Cumulati emission strip ppm	
Crop Code									
Rating Data Type									
Rating Unit									
Rating Date									
Trt-Eval Interval									
ARM Action Codes				T8				T9	
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	17	18	19	20	21	22	23	24
1 Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil									
2 Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)									
3 MIDAS 50:50 400 lb LDPE black/black 1.25 mil									
4 MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)									
5 MB 67:33 400 lb LDPE black/black 1.25 mil	70 a	67 a	32 a	168 a	70 a	67 a	32 a	168 a	
6 MB 67:33 400 lb Metalized smooth 1.3 mil (striped)	1 a	4 b	4 b	10 b	42 a	80 a	47 a	169 a	
7 None LDPE black/black 1.25 mil									
8 None Metalized smooth 1.3 mil (striped)									
LSD (P=.05)	91.8	18.6	6.3	74.6	74.7	62.5	21.5	124.3	
Standard Deviation	26.1	5.3	1.8	21.2	21.2	17.8	6.1	35.4	
CV	73.26	14.95	9.98	23.87	37.94	24.27	15.64	20.99	
Bartlett's X2	7.833	0.242	0.485	6.078	1.124	2.441	2.924	0.188	
P(Bartlett's X2)	0.005*	0.623	0.486	0.014*	0.289	0.118	0.087	0.665	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 20: T8 = [C17]+[C18]+[C19]

Column 24: T9 = [21]+[22]+[23]

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Weed Code	pepper	plant 1 pepper	plant 2 pepper	plant 3 pepper	plant 4 pepper	plant 5 pepper	plant 6 pepper	plant 7 pepper	
Crop Code									
Rating Data Type	stunt	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	percent	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-17-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	
Trt-Eval Interval	53 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	25	26	27	28	29	30	31	32
1 Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil	10 c	15 ab	16 bc	14 ab	15 bcd	16 a	17 abc	15 abc	
2 Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)	43 a	14 ab	12 c	12 b	11 d	13 a	12 bc	10 bc	
3 MIDAS 50:50 400 lb LDPE black/black 1.25 mil	4 de	15 ab	17 abc	16 ab	14 bcd	16 a	17 abc	17 ab	
4 MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)	23 b	13 b	12 c	13 ab	13 cd	13 a	12 c	12 bc	
5 MB 67:33 400 lb LDPE black/black 1.25 mil	3 de	18 a	18 ab	16 ab	19 ab	18 a	17 ab	10 c	
6 MB 67:33 400 lb Metalized smooth 1.3 mil (striped)	7 cd	17 ab	16 bc	17 ab	16 a-d	16 a	17 abc	16 abc	
7 None LDPE black/black 1.25 mil	0 e	17 ab	21 a	17 ab	20 a	17 a	18 a	22 a	
8 None Metalized smooth 1.3 mil (striped)	5 de	17 ab	17 abc	18 a	16 abc	16 a	16 abc	21 a	
LSD (P=.05)	4.8	3.6	4.7	5.3	4.2	5.6	4.6	6.3	
Standard Deviation	2.7	2.1	2.7	3.0	2.4	3.2	2.6	3.6	
CV	22.95	13.08	16.72	19.72	15.5	20.52	16.52	23.27	
Bartlett's X2	3.424	7.982	5.443	5.26	1.846	5.366	6.038	16.345	
P(Bartlett's X2)	0.49	0.334	0.606	0.628	0.968	0.615	0.535	0.022*	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 8	plant 9	plant 10	plant 11	plant 12	plant 13	plant 14	plant 15	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	
Trt-Eval Interval	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	33	34	35	36	37	38	39	
1 Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil		16 bc	17 abc	15 bc	17 a	17 a	17 a	12 a	15 b
2 Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)		16 bc	13 c	15 bc	13 ab	14 a	8 b	16 a	14 b
3 MIDAS 50:50 400 lb LDPE black/black 1.25 mil		17 bc	15 bc	17 b	15 ab	16 a	14 a	16 a	18 ab
4 MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)		12 d	14 bc	13 c	11 b	13 a	14 ab	14 a	15 b
5 MB 67:33 400 lb LDPE black/black 1.25 mil		14 cd	17 abc	18 ab	17 a	16 a	18 a	17 a	15 b
6 MB 67:33 400 lb Metalized smooth 1.3 mil (striped)		16 bc	18 ab	17 b	16 ab	15 a	15 a	15 a	15 b
7 None LDPE black/black 1.25 mil		21 a	21 a	21 a	18 a	16 a	18 a	17 a	20 a
8 None Metalized smooth 1.3 mil (striped)		18 ab	17 abc	18 ab	15 ab	16 a	17 a	17 a	14 b
LSD (P=.05)		2.5	4.3	3.6	5.0	7.0	6.4	7.9	3.6
Standard Deviation		1.4	2.5	2.0	2.8	4.0	3.6	4.5	2.1
CV		8.88	15.1	12.03	18.52	25.85	24.05	29.06	13.18
Bartlett's X2		6.887	8.467	6.077	10.071	9.552	14.607	15.51	4.543
P(Bartlett's X2)		0.441	0.293	0.531	0.185	0.215	0.024*	0.03*	0.716

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code	plant 16	plant 17	plant 18	plant 19	plant 20	plant av	harv 1	harv 1	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	ht	ht	ht	ht	ht	ht	fruit	fruit	
Rating Unit	cm	cm	cm	cm	cm	cm	#	wt/lb	
Rating Date	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	Apr-12-06	May-24-06	May-24-06	
Trt-Eval Interval	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	48 DA-A	90 DA-A	90 DA-A	
ARM Action Codes						T1			
# Subsamples, Dec.									
Trt Treatment	Rate								
No. Name	Rate Unit	41	42	43	44	45	46	47	48
1 Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil		15 ab	16 a	16 bc	16 a	17 a	16 b	41 cd	16 d
2 Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)		14 b	15 a	14 bc	9 b	14 ab	13 c	23 d	8 e
3 MIDAS 50:50 400 lb LDPE black/black 1.25 mil		16 ab	16 a	16 abc	17 a	18 a	16 b	62 bc	27 c
4 MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)		13 b	14 a	13 c	14 ab	11 b	13 c	36 d	13 de
5 MB 67:33 400 lb LDPE black/black 1.25 mil		16 ab	16 a	15 bc	17 a	14 ab	16 b	73 ab	28 bc
6 MB 67:33 400 lb Metalized smooth 1.3 mil (striped)		15 ab	15 a	14 bc	16 a	17 ab	16 b	79 ab	31 abc
7 None LDPE black/black 1.25 mil		18 a	16 a	20 a	17 a	17 ab	19 a	93 a	37 a
8 None Metalized smooth 1.3 mil (striped)		17 ab	17 a	17 ab	18 a	16 ab	17 ab	90 a	35 ab
LSD (P=.05)		3.8	3.4	3.9	6.0	5.2	1.8	21.3	6.4
Standard Deviation		2.1	1.9	2.2	3.4	2.9	1.0	12.2	3.7
CV		13.82	12.46	14.32	21.69	18.82	6.55	19.63	15.0
Bartlett's X2		6.988	5.69	3.217	15.192	8.023	10.06	5.514	3.957
P(Bartlett's X2)		0.43	0.459	0.864	0.034*	0.236	0.185	0.597	0.785

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 46: T1 = ([C26]+[C27]+[C28]+[C29]+[C30]+[C31]+[C32]+[C33]+[C34]+[C35]+[C36]+[C37]+[C38]+[C39]+[C40]+[C41]+[C42]+>



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Weed Code	harv 2	harv 2	harv 3	harv 3	harv 4	harv 4	Harv1-4	Harv1-4	
Crop Code	pepper	pepper	pepper	pepper	pepper	pepper	pepper	pepper	
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit	
Rating Unit	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	
Rating Date	May-30-06	May-30-06	Jun-06-06	Jun-06-06	Jun-14-06	Jun-14-06	Jun-14-06	Jun-14-06	
Trt-Eval Interval	96 DA-A	96 DA-A	103 DA-A	103 DA-A	111 DA-A	111 DA-A	111 DA-A	111 DA-A	
ARM Action Codes							T2	T3	
# Subsamples, Dec.							1		
Trt Treatment	Rate								
No. Name	Rate Unit	49	50	51	52	53	54	55	56
1 Telone 12 G Chloropicrin 150 lb Vapam 75 G LDPE black/black 1.25 mil	60 a	24 a	80 a	32 a	40 ab	14 bcd	220.0 b	86 bc	
2 Telone 12 G Chloropicrin 150 lb Vapam 75 G Metalized smooth 1.3 mil (striped)	32 a	12 a	45 a	18 a	40 ab	14 a-d	138.7 c	53 d	
3 MIDAS 50:50 400 lb LDPE black/black 1.25 mil	79 a	32 a	45 a	18 a	46 ab	15 abc	232.3 b	93 b	
4 MIDAS 50:50 400 lb Metalized smooth 1.3 mil (striped)	68 a	27 a	42 a	16 a	35 ab	12 cd	181.0 bc	68 cd	
5 MB 67:33 400 lb LDPE black/black 1.25 mil	75 a	31 a	51 a	19 a	33 b	11 cd	232.7 b	89 b	
6 MB 67:33 400 lb Metalized smooth 1.3 mil (striped)	67 a	27 a	50 a	20 a	29 b	7 d	225.3 b	86 bc	
7 None LDPE black/black 1.25 mil	69 a	26 a	72 a	28 a	61 a	22 a	294.7 a	113 a	
8 None Metalized smooth 1.3 mil (striped)	67 a	28 a	94 a	36 a	52 ab	21 ab	302.7 a	120 a	
LSD (P=.05)	47.5	18.0	46.6	19.2	23.6	7.0	48.38	19.6	
Standard Deviation	27.1	10.3	26.6	10.9	13.5	4.0	27.62	11.2	
CV	41.99	39.71	44.48	46.71	32.21	27.19	12.09	12.67	
Bartlett's X2	10.062	11.261	7.85	7.919	6.095	9.573	2.503	2.927	
P(Bartlett's X2)	0.185	0.128	0.346	0.34	0.529	0.214	0.927	0.892	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 55: T2 = [C47]+[C49]+[C51]+[C53]

Column 56: T3 = [C48]+[C50]+[C52]+[C54]



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No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

**SOIL DESCRIPTION**

% Sand: 88      % OM: 1.1      Texture: sand  
 % Silt: 10      pH: 6.4      Soil Name: Tifton sandy loam  
 % Clay: 2      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: \_\_\_\_\_

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

**APPLICATION DESCRIPTION**

	A
Application Date:	Feb-23-06
Time of Day:	2 pm
Application Method:	in bed
Application Timing:	preplant
Applic. Placement:	in soil
Air Temp., Unit:	70 F
% Relative Humidity:	34
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	66 F
Soil Moisture:	moist
% Cloud Cover:	25

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	CPSAN
Stage Scale:	DESC
Height, Unit:	3 IN

**WEED STAGE AT EACH APPLICATION**

	A
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

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## APPLICATION EQUIPMENT

	A
Appl. Equipment:	see
Operating Pressure:	comments
Nozzle Type:	
Nozzle Size:	
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	
Ground Speed, Unit:	
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	
Spray Volume, Unit:	
Spray pH:	
Propellant:	
Tank Mix (Y/N):	

Trt No	Treatment Application Comment