



Biomasters, Inc.



Since 1996

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GRASS SEED GERMINATION, EMERGENCE, AND GROWTH TEST



Purpose

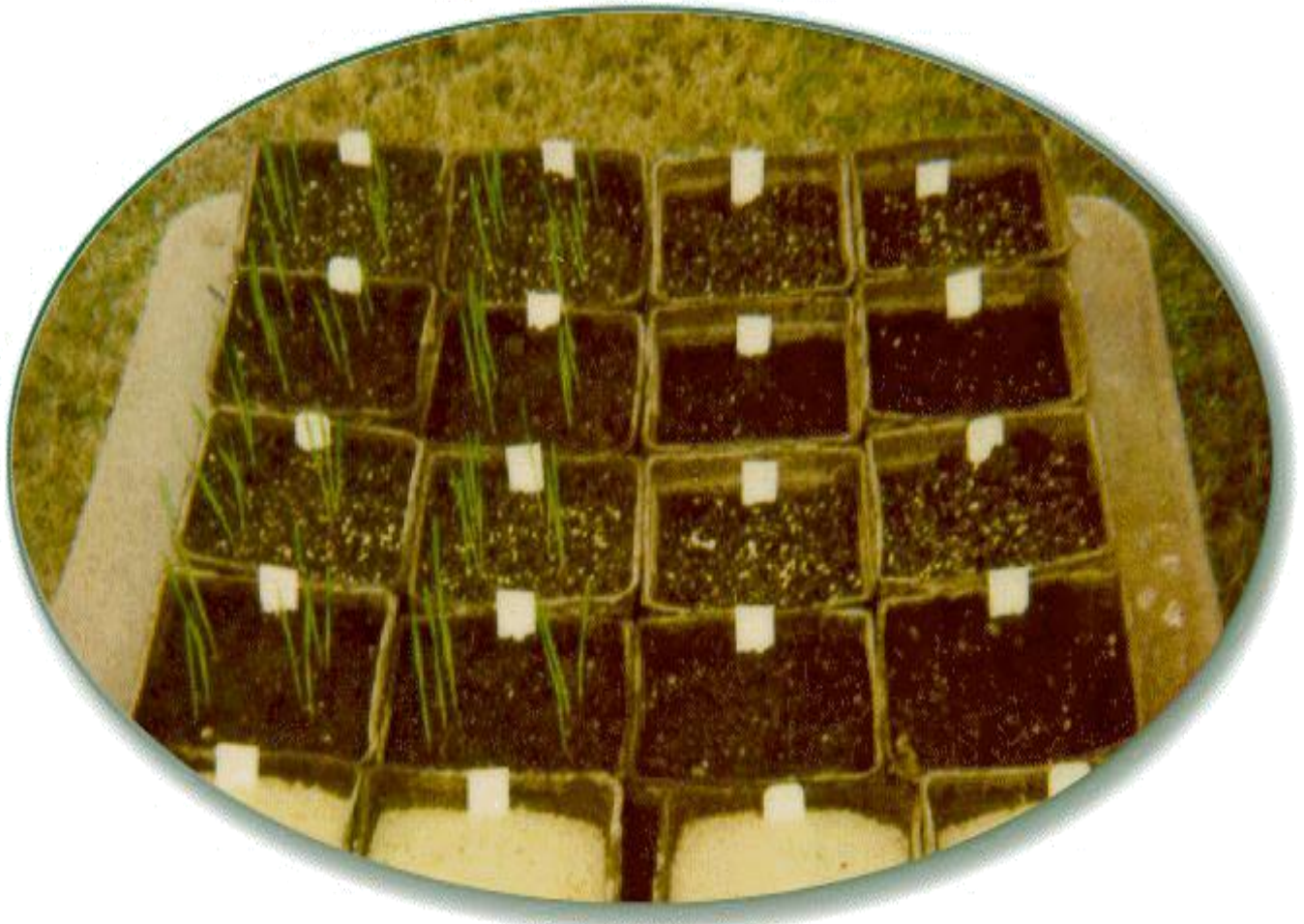
To compare the effectiveness of MicroSoil® with the standard grass seed planting procedures.

Treatments

The seed was treated with MicroSoil® (MicroSoil® was sprayed directly on the seeds) and returned to the seed company for the emergence and growth tests, which employed the scientific sampling standard of 3 repetitions each.

Emergence Count Results

Period After Planting	Emergence Counts														
	3 days			4 days			5 days			7 days			10 days		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Replication (3 Repetitions Each)															
Treatment															
Buffelgrass, MicroSoil® Treated (50 Seeds per Tray)	7	4	8	13	10	10	16	12	13	19	15	16	19	15	16
Buffelgrass - Untreated (50 Seeds per Tray)	-	-	1	3	3	5	9	9	7	14	11	9	14	11	9
Kleingrass, Verde - MicroSoil® Treated (50 Seeds per Tray)	-	-	-	3	2	5	7	7	10	18	11	19	19	17	19
Kleingrass, Verde - Untreated (50 Seeds per Tray)	-	-	-	2	-	-	3	1	2	9	5	8	10	9	8



MICROSOIL® TREATED SEEDS ON THE LEFT SIDE OF THE PHOTO ABOVE.

UNTREATED SEEDS ARE IN RIGHT SIDE..

Conclusions

MicroSoil® improved the emergence rate with grasses, in fact, the Kleingrass rate was doubled and the Buffelgrass rate was almost doubled the 5th day.

Note: On large volumes of such spraying a MicroSoil® dilution of 4:1 (4 parts water to 1 part MicroSoil®) directly on the seed is acceptable, however, for best results, use MicroSoil® directly on the **soil**, as is normally specified. This is highly recommended, as the soil is the microorganisms' native environment.



EMERGENCE RESULTS OF A TEXAS BASED SEED COMPANY

MicroSoil

The seed was flash treated (sprayed) with MicroSoil at full strength and returned to the seed company for emergence and growth tests. 3 Reps.

Treatments:

E : Buffelgrass - treated 50 seed per tray
 F : Buffelgrass -untreated 50 seed per tray
 G : Kleingrass, Verde -treated 50 seed per tray
 H : Kleingrass, Verde -untreated 50 seed per tray

Emergence Count:

Days after planting:		3			4			5			7			10			
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
Replication:	Treatment:	E :	7	4	8	13	10	10	16	12	13	19	15	16	19	15	16
		F :	-	-	1	3	3	5	9	9	7	14	11	9	14	11	9
		G :	-	-	-	3	2	5	7	7	10	18	11	19	19	17	19
		H :	-	-	-	2	-	-	3	1	2	9	5	8	10	9	8

CONCLUSIONS: MicroSoil improved the emergence rate with grasses, in fact, the kleingrass rate was doubled and buffelgrass rate was almost doubled through the 5th day.

NOTE: On large volumes of such spraying a MicroSoil dilution of 4:1 (4 parts water to 1 part MicroSoil) directly on the seed is acceptable, however, for best results, using MicroSoil directly on the soil, as normally specified, is highly recommended as the soil is the micro-organisms' native environment.