



MISSOURI FERTILIZER REPORT

Volume 42, No. 2

July, 2000

REPORT OF ANALYSIS OF FERTILIZER SAMPLES COLLECTED

January 1 through June 30, 2000

BAGGED FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AIM LAWN & GARDEN PRODUCTS, INC		AVON LAKE, OH			
3389**	20.0- 2.0- 5.0	20.0	2.3	4.8	100.82
3379**	25.0- 3.0- 3.0	25.6	3.4	2.9	103.22
3363**	28.0- 3.0- 6.0	28.2	3.0	6.0	100.59
#TOTALS - NO. SAMPLES	3 - SMPLS MISBRANDED	0 -			101.53
ALASKA FISH FERTILIZER CO		RENTON, WA			
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			118.46
AMERICAN PLANT FOOD COMPANY		CREVE COEUR, MO			
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			112.95
AMPEL CORP		DES MOINES, IA			
2514**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
4193**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES	2 - SMPLS MISBRANDED	0 -			100.00
ASC MINERAL PROCESSING		ALLERTON, IL			
4194**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			100.00
BRADFIELD INDUSTRIES, INC		SPRINGFIELD, MO			
3397	3.0- 1.0- 5.0	3.1	1.6	6.0	118.46
3398	3.0- 1.0- 5.0	3.2	1.4	6.1	117.69
3399	3.0- 1.0- 5.0	3.0	1.6	5.5	113.08
4658	3.0- 1.0- 5.0	3.2	1.2	5.0	106.15
#TOTALS - NO. SAMPLES	4 - SMPLS MISBRANDED	0 -			113.84
BUCHHEIT INC		PERRYVILLE, MO			
2585	12.0-12.0-12.0	11.5	9.4*	12.2	90.00*
2579	13.0-13.0-13.0	14.4	12.8	11.6*	101.54
#TOTALS - NO. SAMPLES	4 - SMPLS MISBRANDED	3 -			96.64

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
CHOUTEAU LIME CO		PRYOR, OK			
4227	13.0-13.0-13.0	12.7	13.2	12.6	99.08
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			99.08
DOMESTIC FERTILIZER, INC		PARIS, KY			
3066	15.0- 7.0- 6.0	17.4	9.0	7.8	121.20
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			121.20
ENVIRO-SAFE LABORATORIES		MIAMI, FL			
2574**	13.0-13.0-13.0	13.5	13.3	13.3	102.92
3059**	18.0- 6.0- 8.0	19.4	6.6	8.7	108.39
#TOTALS - NO. SAMPLES	2 - SMPLS MISBRANDED	0 -			105.45
FARMERS CHEMICAL		KANSAS CITY, MO			
2592	6.0-24.0-24.0	6.3	23.8	22.4	98.33
2593	6.0-24.0-24.0	6.5	23.5	22.1	97.74
2841	6.0-24.0-24.0	6.1	25.0	21.0*	99.05
3314	6.0-24.0-24.0	6.2	23.6	23.9	99.40
4528	6.0-24.0-24.0	6.1	23.9	24.2	100.24
4529	6.0-24.0-24.0	5.9	24.3	24.3	100.83
4847	6.0-24.0-24.0	6.2	24.9	21.1*	99.17
4522**	10.0-20.0-10.0	10.4	20.6	10.8	104.00
2573**	13.0-13.0-13.0	13.3	12.6	12.7	99.23
2575**	13.0-13.0-13.0	13.3	12.8	12.7	99.85
2576**	13.0-13.0-13.0	13.0	12.0	13.1	97.08
2577**	13.0-13.0-13.0	12.6	12.7	12.4	96.92*
2581	13.0-13.0-13.0	13.2	12.3	12.6	97.85
3305**	13.0-13.0-13.0	13.3	12.7	12.6	99.38
3306**	13.0-13.0-13.0	12.8	12.7	12.3	97.38
4225**	13.0-13.0-13.0	13.0	12.8	13.2	99.69

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BAGGED FERTILIZER

MANUFACTURER		% FOUND			% Relative Value	MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash		No.	Grade	Nitrogen	P ₂ O ₅	Potash	
HOWARD JOHNSON'S ENTERPRISES, INC MILWAUKEE, WI					LANGE-STEGMANN COMPANY ST LOUIS, MO						
4692**	12.0-22.0-14.0	12.7	21.5	15.6	102.44	3086	6.0-24.0-24.0	6.4	22.7	24.8	98.81
2578	13.0-13.0-13.0	13.0	13.0	12.7	99.54	3313	6.0-24.0-24.0	6.4	22.8	24.1	98.21
2582	13.0-13.0-13.0	14.4	13.4	12.7	105.08	4527	6.0-24.0-24.0	6.5	24.0	25.4	102.86
2583	13.0-13.0-13.0	14.2	11.1*	12.9	97.69	2586	12.0-12.0-12.0	11.0	10.8	11.6	92.00*
2825	13.0-13.0-13.0	12.1	11.0*	13.6	92.00*	3309	12.0-12.0-12.0	10.5*	10.6*	11.0	88.67*
2826	13.0-13.0-13.0	12.7	12.9	13.0	98.77	4517	12.0-12.0-12.0	12.4	11.3	12.8	100.33
2827	13.0-13.0-13.0	13.6	13.9	12.9	104.46	3068	13.0-13.0-13.0	11.5*	12.0	13.5	93.08*
4031	13.0-13.0-13.0	13.8	12.7	12.3	100.46	3069	13.0-13.0-13.0	12.6	11.8	12.3	94.00*
4226	13.0-13.0-13.0	13.2	12.5	13.3	99.54	3303	13.0-13.0-13.0	15.0	13.3	12.9	106.92
4392	13.0-13.0-13.0	12.6	12.0	13.5	96.46*	3603	13.0-13.0-13.0	13.6	12.2	12.4	98.46
4515	13.0-13.0-13.0	13.9	13.7	12.2	103.69	3302	18.0-24.0-12.0	17.8	23.9	11.8	99.17
4619	13.0-13.0-13.0	12.5	11.4*	12.6	92.92*	3145**	20.0- 5.0- 9.0	18.4	4.8	8.9	93.73*
4620	13.0-13.0-13.0	13.8	14.5	13.6	108.00	3058	20.0-10.0-10.0	20.4	9.5	10.7	100.71
4621	13.0-13.0-13.0	13.6	14.6	13.1	106.92	3301	20.0-10.0-10.0	19.2	9.2	12.8	99.43
4757	13.0-13.0-13.0	12.2	12.0	12.3	93.38*	4506	20.0-10.0-10.0	21.9	10.2	10.3	106.43
3602**	16.0- 8.0- 8.0	15.2	7.8	7.9	96.25*	3877	28.0- 3.0- 4.0	27.3	4.1	3.8	100.91
3388	21.0- 3.0- 7.0	21.2	2.4*	6.8	98.18	3283	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
3384**	23.0- 3.0- 8.0	20.8*	3.0	8.1	92.83*	#TOTALS - NO. SAMPLES	19 - SMPLS MISBRANDED	5 -			99.06
3385**	23.0- 3.0- 8.0	23.0	3.1	8.2	100.67	LEBANON CHEMICAL CORPORATION LEBANON, PA					
4292**	23.0- 3.0- 8.0	22.6	3.1	8.3	99.50	4695**	5.0- 5.0-20.0	6.6	6.8	18.8	114.00
4564	23.0- 3.0- 8.0	22.4	3.0	8.3	98.50	2595**	5.0-10.0- 5.0	6.3	9.7	6.2	109.14
4654**	23.0- 3.0- 8.0	24.4	3.2	8.0	105.33	2844	5.0-10.0- 5.0	6.6	11.6	5.7	120.29
4858**	25.0- 2.0-10.0	25.5	2.1	10.0	101.88	2845	5.0-10.0- 5.0	5.3	9.4	5.0	98.29
3375	25.0- 3.0- 3.0	25.3	3.0	2.9	100.85	4780	9.0-17.0- 9.0	9.0	18.4	8.8	104.26
3376	25.0- 3.0- 3.0	25.5	2.7	3.0	100.68	2835	11.0-23.0-10.0	10.9	18.8*	12.4	92.05*
3378**	25.0- 3.0- 3.0	28.8	3.9	3.2	116.27	4684**	18.0- 4.0-10.0	17.0	4.0	10.1	96.48*
3373**	26.0- 3.0- 4.0	26.6	5.6	4.8	111.61	4565	19.0- 4.0- 4.0	19.2	4.3	5.3	104.60
4289	26.0- 3.0- 4.0	25.8	3.4	4.9	102.10	3377	25.0- 3.0- 3.0	25.2	3.0	3.2	101.02
4290**	26.0- 3.0- 4.0	25.6	3.1	4.5	99.84	4086	30.0- 3.0- 4.0	31.1	3.6	4.1	105.00
4652**	26.0- 3.0- 4.0	26.8	2.5*	3.2*	99.68	4087	30.0- 3.0- 4.0	31.5	3.8	4.4	107.14
4714**	26.0- 3.0- 4.0	25.8	3.3	4.6	101.29	3357	30.0- 4.0- 4.0	30.0	4.5	5.7	103.75
4715**	26.0- 3.0- 4.0	26.0	2.9	3.3*	98.55	3358	30.0- 4.0- 4.0	29.5	4.9	5.6	103.33
3366**	27.0- 3.0- 3.0	27.1	2.9	3.0	100.00	3359	30.0- 4.0- 4.0	29.4	4.5	5.8	102.22
3367**	27.0- 3.0- 3.0	25.3	3.6	3.0	96.51*	3360	30.0- 4.0- 4.0	30.2	4.7	6.2	105.56
3599**	28.0- 3.0- 4.0	26.0	2.8	5.3	95.30*	3361	30.0- 4.0- 4.0	28.2	4.4	5.7	98.47
4287**	28.0- 3.0- 4.0	25.4*	2.8	4.0	91.52*	4559	30.0- 4.0- 4.0	28.6	5.5	7.1	104.58
4650**	28.0- 3.0- 4.0	26.5	2.7	4.2	94.85*	#TOTALS - NO. SAMPLES	17 - SMPLS MISBRANDED	2 -			103.34
4711**	28.0- 3.0- 4.0	28.4	3.0	3.8	100.91	LESCO, INC ROCKY RIVER, OH					
3362**	28.0- 3.0- 5.0	28.4	3.2	5.1	101.94	3060**	18.0-24.0-12.0	18.5	24.3	12.8	102.50
4288**	28.0- 5.0-10.0	29.0	4.8	10.0	102.11	3141**	24.0- 5.0-11.0	25.9	1.6*	12.1	97.25
#TOTALS - NO. SAMPLES	87 - SMPLS MISBRANDED	34 -			99.63	3374**	25.0- 2.0- 5.0	24.8	2.3	5.3	100.85
HOWARD JOHNSON'S ENTERPRISES INC NEOSHO, MO					#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 1 - 100.44						
4687	12.0-12.0-12.0	11.2	11.7	11.5	95.50*	MADISON COUNTY FARM SUPPLY IN FREDERICKTOWN, MO					
4690	12.0-22.0- 6.0	13.0	22.9	6.4	105.68	2843	6.0-24.0-24.0	5.5	24.9	21.5*	97.98
4686	13.0-13.0-13.0	12.7	13.0	13.3	99.54	2833**	12.0-12.0-12.0	14.2	14.1	12.1	114.50
4724**	15.0- 3.0- 5.0	15.8	2.9	4.8	102.93	3308**	12.0-12.0-12.0	13.4	11.6	15.0	108.33
4723**	16.0- 8.0- 8.0	17.8	8.6	8.1	108.75	4233**	12.0-12.0-12.0	13.4	13.6	13.4	112.33
4722**	19.0- 5.0-10.0	23.0	5.3	9.4	113.79	2570	20.0-10.0-10.0	19.9	9.8	8.8*	97.43
4735**	21.0- 0.0- 0.0	20.9	0.0	0.0	99.52	#TOTALS - NO. SAMPLES	7 - SMPLS MISBRANDED	2 -			104.77
4718**	23.0- 3.0- 8.0	23.4	3.2	8.4	102.67	MARTIN MARIETTA TECHNOLOGIES CORP XENIA, OH					
4717**	24.0- 3.0-11.0	24.3	3.2	11.2	101.85	3009**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
4716**	25.0- 5.0-12.0	24.7	4.9	12.1	99.03	#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			100.00
4704	25.0-10.0-10.0	25.8	10.6	9.8	103.25	EARL MAY SEED & NURSERY LC SHENANDOAH, IA					
4713**	27.0- 6.0- 7.0	27.1	6.3	9.2	104.11	3161**	10.0-20.0-10.0	10.6	23.2	11.3	112.71
4708**	30.0- 4.0- 6.0	32.3	4.2	6.0	106.76	4096**	30.0- 3.0- 4.0	29.3	3.3	4.1	99.00
4705**	32.0- 3.0- 8.0	30.3	3.2	9.0	97.44	4098**	30.0- 3.0- 6.0	28.6	2.9	6.4	96.39*
4706**	32.0- 3.0- 8.0	32.9	3.1	7.3	101.67	#TOTALS - NO. SAMPLES	3 - SMPLS MISBRANDED	1 -			102.64
#TOTALS - NO. SAMPLES	15 - SMPLS MISBRANDED	1 -			102.77	MFA AGRI SERVICES ELSBERRY, MO					
HYDRO - MERSCHMANN LLC (FT MADISON) WEST POINT, IA					3801** 20.0-10.0-10.0 20.2 10.8 10.3 103.29						
4350	33.5- 0.0- 0.0	33.7	0.0	0.0	100.60	#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			103.29
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			100.60	MFA PLANT FOODS COLUMBIA, MO					
IMC KALIUM BANNOCKBURN, IL					4234 6.0-24.0-24.0 6.6 23.0 23.7 98.69						
4729**	0.0- 0.0-22.0	0.0	0.0	22.4	101.82	4229	13.0-13.0-13.0	12.4	13.3	13.2	99.38
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -			101.82						
LANGE-STEGMANN COMPANY ST LOUIS, MO											
2881	0.0-46.0- 0.0	0.0	46.6	0.0	101.30						
3082	6.0-21.0-13.0	5.9	22.0	12.9	102.54						

BAGGED FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA PLANT FOODS		COLUMBIA, MO			
4756**	13.0-13.0-13.0	12.2	12.8	13.3	97.38
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	98.50
MILORGANITE DIVISION - MMSD		MILWAUKEE, WI			
3395**	6.0- 2.0- 0.0	6.2	3.1	0.0	116.25
3396**	6.0- 2.0- 0.0	6.1	3.1	0.0	115.00
4725**	6.0- 2.0- 0.0	6.3	3.4	0.0	121.25
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	117.50
MIRACLE-GRO LAWN PRODUCTS, INC		PORT WASHINGTON, NY			
4683**	15.0-30.0-15.0	15.3	31.3	15.7	103.71
3368**	27.0- 3.0- 6.0	25.6	4.5	7.0	101.82
3353**	31.0- 3.0- 9.0	30.4	3.9	10.6	102.86
3354**	31.0- 3.0- 9.0	31.7	3.6	10.4	105.19
3355**	31.0- 3.0- 9.0	31.2	3.2	10.1	102.47
3356**	31.0- 3.0- 9.0	32.0	3.6	9.4	104.68
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	103.50
MISSISSIPPI CHEMICAL COMPANY, LP		YAZOO CITY, MS			
1962	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.32
NATURAL FERTILIZER OF AMERICA		CANNON FALLS, MN			
4728**	4.0- 6.0- 4.0	4.0	6.8	5.7	113.75
4727**	5.0- 2.0- 4.0	4.9	4.2	5.9	133.89
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	122.38
NIXA HARDWARE COMPANY, INC.		NIXA, MO			
4508**	16.0-20.0- 6.0	14.4	19.6	5.2*	93.85*
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	93.85
BRUCE OAKLEY INC		BEEBE, AR			
4523	8.0-24.0-24.0	7.7	24.5	23.1	99.43
2836	10.0-20.0-10.0	9.9	20.7	9.1	100.43
4521	10.0-20.0-10.0	9.9	20.1	11.1	101.57
2580	13.0-13.0-13.0	12.7	11.8	12.7	94.92*
2824	13.0-13.0-13.0	12.7	13.4	13.2	100.62
3304	13.0-13.0-13.0	11.9	13.6	13.5	99.23
4514	13.0-13.0-13.0	12.9	12.6	15.4	102.15
4516	13.0-13.0-13.0	12.8	13.6	12.5	100.46
4685	13.0-13.0-13.0	12.5	13.4	12.5	98.92
4507	17.0-17.0-17.0	18.8	13.9*	17.8	97.88
1967	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
3466	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
#TOTALS - NO. SAMPLES		16 - SMPLS	MISBRANDED	3 -	100.24
PURSELL INDUSTRIES, INC		SYLACAUGA, AL			
2588	10.0-10.0-10.0	7.7*	8.4*	7.3*	79.00*
2590	10.0-10.0-10.0	9.6	9.9	11.0	100.00
2838	10.0-10.0-10.0	8.1*	9.0	11.7	91.80*
3077	10.0-10.0-10.0	7.6*	9.5	12.4	93.20*
3078	10.0-10.0-10.0	8.5*	9.9	7.8*	89.20*
3311	10.0-10.0-10.0	12.9	11.5	11.0	119.60
3604	10.0-10.0-10.0	10.0	10.0	10.9	101.80
3394**	15.0- 2.0- 3.0	15.9	2.2	3.2	106.49
3157	18.0-29.0- 6.0	18.6	28.9	5.8	100.80
3158	18.0-29.0- 6.0	19.0	28.4	5.3*	100.10
3159	18.0-29.0- 6.0	18.1	30.1	5.7	102.10
3155	20.0-28.0- 6.0	19.8	24.4*	6.9	93.43*
3386	22.0- 3.0-16.0	21.8	3.3	15.4	99.39
3600	25.0- 3.0- 3.0	24.9	3.2	3.5	101.19
3860**	28.0- 3.0- 3.0	27.4	3.1	3.3	98.92
3863	28.0- 3.0- 3.0	28.8	3.5	3.6	104.92
3864	28.0- 3.0- 3.0	27.1	3.2	3.3	98.31
3871	28.0- 3.0- 3.0	26.9	3.1	4.1	98.62
4125**	28.0- 3.0- 3.0	30.8	2.8	3.8	109.23
4126**	28.0- 3.0- 3.0	26.8	2.8	2.6*	95.08*
3597	28.0- 3.0- 4.0	28.4	3.0	4.6	102.12
3598	28.0- 3.0- 4.0	27.1	3.0	3.3*	96.21*
3875	28.0- 3.0- 4.0	27.0	2.7	3.9	95.91*
3876	28.0- 3.0- 4.0	27.5	2.8	4.1	98.03

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
PURSELL INDUSTRIES, INC		SYLACAUGA, AL			
4112**	29.0- 3.0- 4.0	28.9	2.4*	4.9	99.26
4113**	29.0- 3.0- 4.0	36.8	2.7	4.0	122.06
4114**	29.0- 3.0- 4.0	28.4	3.5	4.3	100.15
4115**	29.0- 3.0- 4.0	36.4	3.0	3.3*	120.74
4116**	29.0- 3.0- 4.0	29.6	4.3	5.6	107.94
4270	29.0- 3.0- 4.0	30.5	4.0	4.7	108.38
4280**	29.0- 3.0- 4.0	26.4*	2.9	4.2	92.35*
4281**	29.0- 3.0- 4.0	26.8*	3.4	5.3	96.62*
4282**	29.0- 3.0- 4.0	29.6	3.1	5.2	103.82
4119	29.0- 3.0- 5.0	28.9	3.2	5.2	100.58
4120	29.0- 3.0- 5.0	27.9	2.8	5.6	97.10
3352**	31.0- 2.0- 4.0	31.8	2.5	4.6	104.57
3346	35.0- 2.0- 4.0	34.9	2.4	3.4*	100.00
3347	35.0- 2.0- 4.0	34.9	2.4	4.2	101.03
3348	35.0- 2.0- 4.0	33.7	3.0	4.6	100.00
3349	35.0- 2.0- 4.0	34.4	2.8	3.4*	99.74
4263	35.0- 2.0- 4.0	36.4	2.7	3.9	105.26
#TOTALS - NO. SAMPLES		47 - SMPLS	MISBRANDED	15 -	101.42
SCHULTZ COMPANY		BRIDGETON, MO			
4673**	9.0-10.0-15.0	10.1	9.5	13.6	99.62
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.62
SCOTTS-SIERRA HORTICULTURAL PROD CO		MARYSVILLE, OH			
2572	14.0-14.0-14.0	14.7	13.7	14.8	102.29
3053**	15.0-16.0-17.0	17.0	18.0	19.0	112.66
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	107.78
SPECTRUM GROUP, DIV OF UNITED IND		ST LOUIS, MO			
3047**	19.0-26.0-16.0	20.2	25.8	16.5	102.36
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.36
T AND N, INC		FORISTELL, MO			
4037	6.0-24.0-24.0	6.0	23.5	23.4	98.10
4034	12.0-12.0-12.0	12.5	12.3	11.4	101.67
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.58
THE ANDERSONS LAWN FERTILIZER DIV		MAUMEE, OH			
3312	6.0-10.0- 4.0	6.2	10.0	4.5	102.50
3606**	10.0-20.0-10.0	9.7	19.8	9.3	97.57
4563**	24.0- 4.0-14.0	22.8	4.2	15.1	98.71
3350**	30.0- 3.0- 4.0	28.6	5.0	4.3	102.14
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	99.91
THE SCOTTS COMPANY		MARYSVILLE, OH			
3160**	16.0-25.0-12.0	16.8	27.2	13.2	107.66
3393**	19.0- 2.0-15.0	18.4	2.3	16.0	100.70
3390**	20.0- 3.0- 4.0	20.8	3.3	4.4	105.20
3391**	20.0- 3.0- 4.0	20.4	3.3	4.0	102.80
3148	20.0-27.0- 5.0	20.6	28.3	5.2	104.04
3149	20.0-27.0- 5.0	20.6	27.2	5.6	102.22
3150	20.0-27.0- 5.0	20.3	29.0	4.9	104.55
3151	20.0-27.0- 5.0	21.4	27.9	5.1	104.75
3152	20.0-27.0- 5.0	21.0	24.9*	6.0	98.79
3153	20.0-27.0- 5.0	21.0	28.7	4.9	105.35
3392	20.0-27.0- 5.0	21.2	27.1	5.6	103.23
3601	20.0-27.0- 5.0	20.9	28.6	4.9	104.95
3387**	21.0- 3.0- 3.0	22.2	3.4	3.6	107.45
4719**	22.0- 0.0- 6.0	21.2	0.0	6.9	98.60
3372	26.0- 3.0- 4.0	27.8	3.1	4.4	106.77
4712**	27.0- 3.0- 4.0	26.9	2.9	4.6	100.31
3369	27.0- 3.0- 6.0	27.3	3.2	6.9	102.88
3370	27.0- 4.0- 4.0	27.9	3.8	3.8	101.82
3371	27.0- 4.0- 4.0	26.8	4.1	4.6	100.61
3861	28.0- 3.0- 3.0	28.4	3.0	3.3	101.69
3862	28.0- 3.0- 3.0	27.3	3.3	3.0	98.77
3865	28.0- 3.0- 3.0	28.1	2.9	3.3	100.46
3866	28.0- 3.0- 3.0	27.9	2.9	3.2	99.69
3867	28.0- 3.0- 3.0	27.3	3.2	3.6	99.38
3868	28.0- 3.0- 3.0	27.8	3.4	3.5	101.38
3869	28.0- 3.0- 3.0	27.0	3.3	3.6	98.77

BAGGED FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
THE SCOTTS COMPANY		MARYSVILLE, OH			
3870	28.0- 3.0- 3.0	27.6	3.4	3.4	100.62
3872	28.0- 3.0- 3.0	26.8	3.2	3.4	97.54
3873	28.0- 3.0- 3.0	27.8	3.3	3.0	100.31
3874	28.0- 3.0- 3.0	27.9	2.9	3.0	99.38
4285	28.0- 3.0- 3.0	28.6	2.9	3.0	101.54
4425	28.0- 3.0- 3.0	28.0	3.1	2.7	99.85
4561	28.0- 3.0- 3.0	27.6	2.8	3.4	98.77
4647	28.0- 3.0- 3.0	28.0	2.8	3.1	99.54
3365**	28.0- 4.0- 6.0	28.3	4.7	6.6	103.71
4099	29.0- 3.0- 3.0	28.5	3.2	3.3	99.55
4100	29.0- 3.0- 3.0	28.8	3.2	3.7	101.04
4101	29.0- 3.0- 4.0	28.6	3.1	4.0	99.12
4102	29.0- 3.0- 4.0	28.0	3.2	4.5	98.38
4103	29.0- 3.0- 4.0	29.0	2.9	3.8	99.41
4117	29.0- 3.0- 4.0	29.5	3.0	3.9	101.32
4118	29.0- 3.0- 4.0	29.4	3.0	4.1	101.32
4271	29.0- 3.0- 4.0	28.3	3.1	4.6	99.12
4276	29.0- 3.0- 4.0	30.2	2.8	3.3*	101.91
4641**	29.0- 3.0- 4.0	30.0	3.1	4.1	103.38
4642**	29.0- 3.0- 4.0	28.7	3.6	4.5	101.62
4777**	29.0- 3.0- 4.0	29.0	3.2	5.5	102.79
4085**	30.0- 3.0- 3.0	30.2	2.8	3.4	100.58
4264**	30.0- 3.0- 3.0	30.2	3.4	3.5	102.46
4265**	30.0- 3.0- 3.0	30.0	3.1	4.1	101.88
4266**	30.0- 3.0- 3.0	30.1	3.0	4.1	101.88
4707	30.0- 3.0- 3.0	30.7	3.0	3.4	102.61
4088**	30.0- 3.0- 4.0	30.2	3.1	4.2	101.14
4089**	30.0- 3.0- 4.0	30.8	3.0	4.3	102.71
4090**	30.0- 3.0- 4.0	31.0	3.0	3.9	102.71
4091**	30.0- 3.0- 4.0	30.3	3.3	4.2	102.00
4092**	30.0- 3.0- 4.0	30.8	2.8	4.3	102.14
4093**	30.0- 3.0- 4.0	31.1	3.1	4.2	103.71
4094**	30.0- 3.0- 4.0	30.9	3.1	3.9	102.71
4095**	30.0- 3.0- 4.0	30.9	3.3	4.4	104.00
4267**	30.0- 3.0- 4.0	30.9	3.1	4.2	103.14
4268**	30.0- 3.0- 4.0	31.1	3.3	4.1	104.14
4084**	31.0- 3.0-10.0	31.0	3.3	10.9	101.92
3351	33.0- 3.0-10.0	33.3	3.2	9.9	101.10
#TOTALS - NO. SAMPLES		67 -	SMPLS MISBRANDED	2 -	101.98

TRUSERV CORPORATION		MAUMEE, OH			
No.	Grade	Nitrogen	P ₂ O ₅	Potash	% Relative Value
4709**	29.0- 3.0- 4.0	28.0	3.6	4.2	99.12
#TOTALS - NO. SAMPLES		1 -	SMPLS MISBRANDED	0 -	99.12

VOLUNTARY PURCHASING GROUPS		BONHAM, TX			
No.	Grade	Nitrogen	P ₂ O ₅	Potash	% Relative Value
4836	4.0-10.0- 3.0	4.2	10.3	3.5	104.84
4841**	7.0-22.0- 8.0	8.0	25.6	8.6	114.85
3162**	9.0-13.0- 7.0	8.6	15.0	6.4	105.10
3163**	9.0-13.0- 7.0	9.3	16.8	8.2	118.43
3164**	9.0-13.0- 7.0	9.5	14.0	7.9	107.65
3165**	9.0-13.0- 7.0	9.1	16.8	7.8	116.86
4846**	9.0-13.0- 7.0	9.4	10.2*	11.7	99.80
4294	15.0- 5.0-10.0	15.7	5.9	11.4	109.20
3156**	18.0- 6.0-12.0	18.2	8.4	13.3	110.83
4655**	20.0- 3.0- 3.0	21.4	3.4	3.6	108.57
3380**	25.0- 4.0- 4.0	26.8	3.4*	4.3	104.35
3381**	25.0- 4.0- 4.0	26.3	5.0	5.0	109.03
3382**	25.0- 4.0- 4.0	24.7	5.2	5.0	104.52
4653**	25.0- 4.0- 4.0	28.2	3.0*	4.0	107.10
3364**	28.0- 4.0- 4.0	28.7	5.4	5.2	107.94
4651**	28.0- 4.0- 4.0	28.0	4.8	5.0	103.82
4857**	28.0- 4.0- 4.0	28.1	4.4	3.8	101.18
#TOTALS - NO. SAMPLES		17 -	SMPLS MISBRANDED	3 -	107.81

WILFARM, LLC		KANSAS CITY, MO			
No.	Grade	Nitrogen	P ₂ O ₅	Potash	% Relative Value
3007**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		1 -	SMPLS MISBRANDED	0 -	100.00

WILFARM, LLC		LA MONTE, MO			
No.	Grade	Nitrogen	P ₂ O ₅	Potash	% Relative Value
3008**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		1 -	SMPLS MISBRANDED	0 -	100.00

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
SCRIPTON SYSTEMS		ANNAPOLIS, MD			
3088	4.0- 4.0- 4.0	5.0	10.4	7.8	193.00
#TOTALS - NO. SAMPLES		1 -	SMPLS MISBRANDED	0 -	193.00
PLANTERS SEED CO		KANSAS CITY, MO			
3146	20.0-12.0-10.0	19.0	11.0	9.2	93.51*
#TOTALS - NO. SAMPLES		1 -	SMPLS MISBRANDED	1 -	93.51

* Subject to penalty (either 10% or two units deficient from guarantee in nutrient indicated, or 3% deficient in total value).

** Sample analyzed for guaranteed secondary or micronutrients, the results are tabulated beginning page 39.

Totals from July 1, 1999.

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AGRISERVICES OF BRUNSWICK, LLC		BRUNSWICK, MO			
1629	34.0- 0.0- 0.0	33.7	0.0	0.0	99.12
1992	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53
1993	34.0- 0.0- 0.0	33.3	0.0	0.0	97.94
2493	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35
2977	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53
2997	34.0- 0.0- 0.0	33.4	0.0	0.0	98.24
3232	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
3238	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88
3239	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35
3961	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12
3963	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
4175	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59
4186	34.0- 0.0- 0.0	34.0	0.0	0.0	100.00
4469	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82
1605	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
1643	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
1646	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
1656	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
1761	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
1762	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
1766	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
1789	46.0- 0.0- 0.0	45.8	0.0	0.0	99.57
1790	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
1791	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
2016	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
2020	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
2278	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
2279	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30
2518	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
2519	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
2526	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
2530	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
2531	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30
2779	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
3278	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
3513	46.0- 0.0- 0.0	45.6	0.0	0.0	99.13
3517	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30
3526	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
3767	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
3768	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
3769	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
3777	46.0- 0.0- 0.0	46.8	0.0	0.0	101.74
4215	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22
4219	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
4377	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
4492	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
4495	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
4496	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
4615	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
4837	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		258	- SMPLS MISBRANDED	0	- 100.24

AGRISERVICES OF BRUNSWICK, LLC BRUNSWICK, MO
 #TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 102.16

AGRIUM U.S. INC. DENVER, CO
 3893 0.0- 0.0- 60.0 0.0 0.0 61.1 101.83
 4305 0.0- 0.0- 60.0 0.0 0.0 60.8 101.33
 2986 34.0- 0.0- 0.0 34.9 0.0 0.0 102.65
 2987 34.0- 0.0- 0.0 35.2 0.0 0.0 103.53
 #TOTALS - NO. SAMPLES 9 - SMPLS MISBRANDED 0 - 102.39

AGRIUM U.S. INC. BEATRICE, NE
 1918 0.0- 0.0- 60.0 0.0 0.0 60.7 101.17
 2898 0.0- 0.0- 60.0 0.0 0.0 61.0 101.67
 1738 34.0- 0.0- 0.0 35.1 0.0 0.0 103.24
 1739 34.0- 0.0- 0.0 35.7 0.0 0.0 105.00
 1741 34.0- 0.0- 0.0 35.3 0.0 0.0 103.82
 1742 34.0- 0.0- 0.0 35.6 0.0 0.0 104.71
 1743 34.0- 0.0- 0.0 35.4 0.0 0.0 104.12
 1972 34.0- 0.0- 0.0 35.3 0.0 0.0 103.82

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AGRIUM U.S. INC.		BEATRICE, NE			
1989	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
1990	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
2214	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
2215	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
2238	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12
2239	34.0- 0.0- 0.0	35.7	0.0	0.0	105.00
2240	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12
2242	34.0- 0.0- 0.0	35.5	0.0	0.0	104.41
2752	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
3231	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
3234	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
3240	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
4833	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
#TOTALS - NO. SAMPLES		37	- SMPLS MISBRANDED	0	- 103.42
AGRIUM US INC		SODA SPRINGS, ID			
4141	0.0- 0.0- 60.0	0.0	0.0	60.6	101.00
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 101.00
AGRO DISTRIBUTION, LLC		SIOUX CITY, IA			
1770	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 100.43
AGRO DISTRIBUTION, LLC		ST JOSEPH, MO			
4548	18.0- 46.0- 0.0	17.3	45.7	0.0	98.44
4491	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
#TOTALS - NO. SAMPLES		2	- SMPLS MISBRANDED	0	- 99.54
AGRO-K CORPORATION		MINNEAPOLIS, MN			
2653	0.0- 0.0- 60.0	0.0	0.0	61.1	101.83
2613	18.0- 46.0- 0.0	17.5	46.2	0.0	99.53
2744	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
2745	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
2524	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
#TOTALS - NO. SAMPLES		5	- SMPLS MISBRANDED	0	- 100.93
AGRO DISTRIBUTION LLC (WALKER)		WALKER, MO			
1848	18.0- 46.0- 0.0	17.7	45.6	0.0	98.91
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 98.91
AMERICAN PLANT FOOD CORPORATION		GALENA PARK, TX			
2260**	21.0- 0.0- 0.0	20.7	0.0	0.0	98.57
#TOTALS - NO. SAMPLES		2	- SMPLS MISBRANDED	0	- 99.76
AMPEL CORP		DES MOINES, IA			
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 100.00
ASSOC RIVER TERMINAL		OTTAWA, IL			
3175	0.0- 0.0- 60.0	0.0	0.0	60.2	100.33
3123	18.0- 46.0- 0.0	17.9	45.1	0.0	98.44
#TOTALS - NO. SAMPLES		2	- SMPLS MISBRANDED	0	- 99.04

BARTLETT & COMPANY KANSAS CITY, MO
 1681 18.0- 46.0- 0.0 17.9 46.2 0.0 100.16
 3593 18.0- 46.0- 0.0 18.4 46.7 0.0 101.72
 #TOTALS - NO. SAMPLES 5 - SMPLS MISBRANDED 0 - 100.90

BEN-TREI, LTD TULSA, OK
 1682 18.0- 46.0- 0.0 18.2 45.2 0.0 99.06
 1688 18.0- 46.0- 0.0 18.4 46.0 0.0 100.63
 1844 18.0- 46.0- 0.0 17.9 45.9 0.0 99.69
 2073 18.0- 46.0- 0.0 18.1 45.6 0.0 99.53
 2098 18.0- 46.0- 0.0 18.0 45.8 0.0 99.69
 2363 18.0- 46.0- 0.0 17.0 46.6 0.0 99.38
 2626 18.0- 46.0- 0.0 17.7 45.9 0.0 99.38
 2627 18.0- 46.0- 0.0 17.9 45.9 0.0 99.69
 2629 18.0- 46.0- 0.0 18.2 45.7 0.0 99.84
 2630 18.0- 46.0- 0.0 17.7 46.1 0.0 99.69
 2862 18.0- 46.0- 0.0 17.8 45.9 0.0 99.53
 2865 18.0- 46.0- 0.0 18.5 45.7 0.0 100.31
 3569 18.0- 46.0- 0.0 18.8 45.9 0.0 101.09

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
BEN-TREI, LTD					
TULSA, OK					
4411	18.0-46.0- 0.0	18.4	45.7	0.0	100.16
4412	18.0-46.0- 0.0	18.3	45.7	0.0	100.00
1737	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
2495	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
2498	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
2984	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24
2985	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53
3713	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
4181	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
4340	34.0- 0.0- 0.0	34.0	0.0	0.0	100.00
4341	34.0- 0.0- 0.0	34.0	0.0	0.0	100.00
4598	34.0- 0.0- 0.0	32.8	0.0	0.0	96.47*
#TOTALS - NO. SAMPLES 32 - SMPLS MISBRANDED 1 - 100.26					
BREHMER FERTILIZER, INC					
DEXTER, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.46					
BUCHHEIT INC					
PERRYVILLE, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 101.56					
CARGILL FERTILIZER, INC					
NEW MADRID, MO					
1695	0.0- 0.0-60.0	0.0	0.0	60.6	101.00
2398	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
2401	0.0- 0.0-60.0	0.0	0.0	61.1	101.83
2894	0.0- 0.0-60.0	0.0	0.0	60.7	101.17
3409	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
3617	0.0- 0.0-60.0	0.0	0.0	60.6	101.00
3896	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
4135	0.0- 0.0-60.0	0.0	0.0	60.4	100.67
4138	0.0- 0.0-60.0	0.0	0.0	61.2	102.00
4303	0.0- 0.0-60.0	0.0	0.0	61.1	101.83
4304	0.0- 0.0-60.0	0.0	0.0	60.5	100.83
4437	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
4573	0.0- 0.0-60.0	0.0	0.0	61.0	101.67
4662	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
4785	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
2378	0.0-46.0- 0.0	0.0	47.4	0.0	103.04
2876	0.0-46.0- 0.0	0.0	47.2	0.0	102.61
3881	0.0-46.0- 0.0	0.0	46.4	0.0	100.87
4127	0.0-46.0- 0.0	0.0	46.2	0.0	100.43
1673	18.0-46.0- 0.0	18.2	46.2	0.0	100.63
2099	18.0-46.0- 0.0	18.1	46.8	0.0	101.41
2372	18.0-46.0- 0.0	17.3	45.9	0.0	98.75
2855	18.0-46.0- 0.0	17.7	46.3	0.0	100.00
3567	18.0-46.0- 0.0	18.3	46.4	0.0	101.09
4063	18.0-46.0- 0.0	17.7	45.9	0.0	99.38
4249	18.0-46.0- 0.0	17.9	46.2	0.0	100.16
4410	18.0-46.0- 0.0	18.0	46.2	0.0	100.31
4543	18.0-46.0- 0.0	17.4	46.2	0.0	99.38
4640	18.0-46.0- 0.0	17.9	45.9	0.0	99.69
4767	18.0-46.0- 0.0	17.9	45.9	0.0	99.69
4472**	20.5- 0.0- 0.0	20.9	0.0	0.0	101.95
1747**	21.0- 0.0- 0.0	21.3	0.0	0.0	101.43
2006**	21.0- 0.0- 0.0	21.5	0.0	0.0	102.38
3004**	21.0- 0.0- 0.0	21.1	0.0	0.0	100.48
4187**	21.0- 0.0- 0.0	21.2	0.0	0.0	100.95
4351**	21.0- 0.0- 0.0	21.3	0.0	0.0	101.43
4352**	21.0- 0.0- 0.0	21.3	0.0	0.0	101.43
4671**	21.0- 0.0- 0.0	20.7	0.0	0.0	98.57
4809**	21.0- 0.0- 0.0	20.8	0.0	0.0	99.05
1654	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
2282	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
2283	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
2284	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
2775	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
3511	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
3776	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
4213	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
4488	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
4617	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
CARGILL FERTILIZER, INC					
NEW MADRID, MO					
4749	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES 85 - SMPLS MISBRANDED 0 - 100.77					
CENTRAL COOPERATIVES INC					
HOLDEN, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.16					
CF INDUSTRIES, INC					
LONG GROVE, IL					
1641	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
1765	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 0 - 100.50					
CONAGRA FERTILIZER					
PEKIN, IL					
4435**	0.0- 0.0-20.0	0.0	0.0	21.1	105.50
1898	0.0- 0.0-60.0	0.0	0.0	59.9	99.83
2901	0.0- 0.0-60.0	0.0	0.0	60.2	100.33
4438	0.0- 0.0-60.0	0.0	0.0	60.7	101.17
4439	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
2409	0.0- 0.0-62.0	0.0	0.0	62.8	101.29
2879	0.0-46.0- 0.0	0.0	46.7	0.0	101.52
1818	11.0-52.0- 0.0	11.9	51.6	0.0	100.79
2620	18.0-46.0- 0.0	17.4	45.9	0.0	98.91
3344	18.0-46.0- 0.0	18.9	45.6	0.0	100.78
3487	33.5- 0.0- 0.0	34.3	0.0	0.0	102.39
3957	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
1775	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22
2782	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
3289	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
4376	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
#TOTALS - NO. SAMPLES 21 - SMPLS MISBRANDED 0 - 100.79					
CONAGRA FERTILIZER					
ST JOSEPH, MO					
1920	0.0- 0.0-60.0	0.0	0.0	60.1	100.17
1940	0.0- 0.0-62.0	0.0	0.0	62.4	100.65
1859	18.0-46.0- 0.0	18.1	45.8	0.0	99.84
1985	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
#TOTALS - NO. SAMPLES 10 - SMPLS MISBRANDED 0 - 100.87					
CROP PRODUCTION SERVICES					
LAPLATA, MO					
1973	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 103.53					
CYPRESS CHEMICAL COMPANY					
HELENA, AR					
2559**	20.5- 0.0- 0.0	19.6	0.0	0.0	95.61*
4191**	20.5- 0.0- 0.0	19.4	0.0	0.0	94.63*
2005**	21.0- 0.0- 0.0	19.7	0.0	0.0	93.81*
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 3 - 94.67					
DEBRUCE FERTILIZER					
N KANSAS CITY, MO					
2389**	0.0- 0.0-22.0	0.0	0.0	21.5	97.73
1623	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
1701	0.0- 0.0-60.0	0.0	0.0	60.0	100.00
1703	0.0- 0.0-60.0	0.0	0.0	60.1	100.17
1909	0.0- 0.0-60.0	0.0	0.0	60.3	100.50
1921	0.0- 0.0-60.0	0.0	0.0	60.2	100.33
2148	0.0- 0.0-60.0	0.0	0.0	61.0	101.67
2397	0.0- 0.0-60.0	0.0	0.0	62.3	103.83
2651	0.0- 0.0-60.0	0.0	0.0	61.2	102.00
2652	0.0- 0.0-60.0	0.0	0.0	62.2	103.67
2655	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
2657	0.0- 0.0-60.0	0.0	0.0	60.0	100.00
2899	0.0- 0.0-60.0	0.0	0.0	60.7	101.17
3412	0.0- 0.0-60.0	0.0	0.0	61.0	101.67
3414	0.0- 0.0-60.0	0.0	0.0	61.3	102.17
3417	0.0- 0.0-60.0	0.0	0.0	61.3	102.17
3624	0.0- 0.0-60.0	0.0	0.0	59.8	99.67
4306	0.0- 0.0-60.0	0.0	0.0	60.3	100.50
4308	0.0- 0.0-60.0	0.0	0.0	60.4	100.67
4440	0.0- 0.0-60.0	0.0	0.0	60.6	101.00
4441	0.0- 0.0-60.0	0.0	0.0	61.1	101.83
4442	0.0- 0.0-60.0	0.0	0.0	61.4	102.33

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value	MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash		No.	Grade	Nitrogen	P ₂ O ₅	Potash	
DEBRUCE FERTILIZER						N KANSAS CITY, MO					
4443	0.0- 0.0-60.0	0.0	0.0	61.0	101.67	2027	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
2403	0.0- 0.0-61.0	0.0	0.0	62.2	101.97	2028	46.0- 0.0- 0.0	45.5	0.0	0.0	98.91
1717	0.0- 0.0-62.0	0.0	0.0	62.5	100.81	2276	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
1718	0.0- 0.0-62.0	0.0	0.0	62.7	101.13	2523	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
1934	0.0- 0.0-62.0	0.0	0.0	62.8	101.29	3291	46.0- 0.0- 0.0	45.5	0.0	0.0	98.91
2178	0.0- 0.0-62.0	0.0	0.0	62.2	100.32	3518	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
2914	0.0- 0.0-62.0	0.0	0.0	61.5	99.19	4375	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
3640	0.0- 0.0-62.0	0.0	0.0	62.8	101.29	4616	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00
2641	0.0-46.0- 0.0	0.0	47.2	0.0	102.61	#TOTALS - NO. SAMPLES 145 - SMPLS MISBRANDED 6 - 100.51					
3609	0.0-46.0- 0.0	0.0	46.5	0.0	101.09	DYNO NOBEL, INC LOUISIANA, MO					
4783	0.0-46.0- 0.0	0.0	47.1	0.0	102.39	2491	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24
1670	11.0-52.0- 0.0	11.5	51.1	0.0	99.37	#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 103.24					
1812	11.0-52.0- 0.0	11.1	51.9	0.0	100.00	EL DORADO CHEMICAL COMPANY EL DORADO, AR					
2055	11.0-52.0- 0.0	11.6	51.5	0.0	100.16	1965	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
2341	11.0-52.0- 0.0	11.0	50.9	0.0	98.25	3724	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
2342	11.0-52.0- 0.0	11.4	51.2	0.0	99.37	#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 102.05					
4765	11.0-52.0- 0.0	13.2	51.5	0.0	102.70	EOLIA FERTILIZER EOLIA, MO					
1675	18.0-46.0- 0.0	17.9	45.6	0.0	99.22	2251	33.5- 0.0- 0.0	34.9	0.0	0.0	104.18
1676	18.0-46.0- 0.0	17.2	45.7	0.0	98.28	#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 104.18					
1677	18.0-46.0- 0.0	17.8	45.6	0.0	99.06	FARMERS CHEMICAL KANSAS CITY, MO					
1683	18.0-46.0- 0.0	18.3	45.9	0.0	100.31	3085	6.0-24.0-24.0	7.0	25.2	21.6*	102.38
1849	18.0-46.0- 0.0	18.1	46.2	0.0	100.47	#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 1 - 102.38					
1860	18.0-46.0- 0.0	18.2	46.4	0.0	100.94	FARMERS AG CENTER MOUNTAIN GROVE, MO					
1861	18.0-46.0- 0.0	18.1	46.7	0.0	101.25	2422	0.0- 0.0-62.0	0.0	0.0	60.9	98.23
1869	18.0-46.0- 0.0	18.3	46.3	0.0	100.94	3187	0.0- 0.0-62.0	0.0	0.0	59.3*	95.65*
2071	18.0-46.0- 0.0	18.2	46.7	0.0	101.41	2358	18.0-46.0- 0.0	16.6	42.8*	0.0	92.81*
2360	18.0-46.0- 0.0	17.7	45.6	0.0	98.91	#TOTALS - NO. SAMPLES 5 - SMPLS MISBRANDED 3 - 88.84					
2612	18.0-46.0- 0.0	18.0	46.2	0.0	100.31	FARMERS PRODUCE EXCHANGE-GROVESPRING LEBANON, MO					
2615	18.0-46.0- 0.0	17.6	45.6	0.0	98.75	3717	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
3326	18.0-46.0- 0.0	18.0	46.6	0.0	100.94	#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 103.53					
3334	18.0-46.0- 0.0	17.9	45.6	0.0	99.22	FARMLAND INDUSTRIES, INC KANSAS CITY, MO					
3582	18.0-46.0- 0.0	17.6	46.2	0.0	99.69	1888**	0.0- 0.0-22.0	0.0	0.0	21.6	98.18
3839	18.0-46.0- 0.0	18.0	45.6	0.0	99.38	1705	0.0- 0.0-60.0	0.0	0.0	60.7	101.17
3847	18.0-46.0- 0.0	17.8	45.8	0.0	99.38	1908	0.0- 0.0-60.0	0.0	0.0	60.5	100.83
4252	18.0-46.0- 0.0	17.6	45.8	0.0	99.06	2159	0.0- 0.0-60.0	0.0	0.0	60.2	100.33
4254	18.0-46.0- 0.0	17.9	45.6	0.0	99.22	3411	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
4413	18.0-46.0- 0.0	17.9	45.7	0.0	99.38	3413	0.0- 0.0-60.0	0.0	0.0	60.6	101.00
4421	18.0-46.0- 0.0	17.9	45.7	0.0	99.38	3416	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
4638	18.0-46.0- 0.0	17.5	45.3	0.0	98.13	3891	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
4192**	19.0- 0.0- 0.0	19.6	0.0	0.0	103.16	4312	0.0- 0.0-60.0	0.0	0.0	61.0	101.67
2004**	20.5- 0.0- 0.0	19.0	0.0	0.0	92.68*	4786	0.0- 0.0-60.0	0.0	0.0	61.3	102.17
1746**	21.0- 0.0- 0.0	19.7	0.0	0.0	93.81*	1942	0.0- 0.0-62.0	0.0	0.0	62.6	100.97
3003**	21.0- 0.0- 0.0	19.4	0.0	0.0	92.38*	2177	0.0- 0.0-62.0	0.0	0.0	62.2	100.32
3492**	21.0- 0.0- 0.0	19.0	0.0	0.0	90.48*	2181	0.0- 0.0-62.0	0.0	0.0	62.2	100.32
1628	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12	2182	0.0- 0.0-62.0	0.0	0.0	62.0	100.00
1734	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59	2675	0.0- 0.0-62.0	0.0	0.0	62.5	100.81
1740	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82	3423	0.0- 0.0-62.0	0.0	0.0	62.8	101.29
1971	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	3644	0.0- 0.0-62.0	0.0	0.0	63.0	101.61
1981	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	1693	0.0-46.0- 0.0	0.0	46.4	0.0	100.87
1994	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	2877	0.0-46.0- 0.0	0.0	46.1	0.0	100.22
1995	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94	3403	0.0-46.0- 0.0	0.0	47.0	0.0	102.17
2197	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76	3879	0.0-46.0- 0.0	0.0	46.5	0.0	101.09
2222	34.0- 0.0- 0.0	35.6	0.0	0.0	104.71	4427	0.0-46.0- 0.0	0.0	47.4	0.0	103.04
2244	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24	4782	0.0-46.0- 0.0	0.0	46.4	0.0	100.87
2489	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59	4871	0.0-46.0- 0.0	0.0	46.7	0.0	101.52
2751	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	1817	11.0-52.0- 0.0	11.0	51.8	0.0	99.68
2995	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	2336	11.0-52.0- 0.0	10.7	51.8	0.0	99.21
3236	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06	3115	11.0-52.0- 0.0	11.4	51.1	0.0	99.21
3473	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	3565	11.0-52.0- 0.0	11.3	52.3	0.0	100.95
3477	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	4403	11.0-52.0- 0.0	11.1	51.8	0.0	99.84
3726	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	4404	11.0-52.0- 0.0	11.6	51.9	0.0	100.79
4336	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	4405	11.0-52.0- 0.0	11.6	51.4	0.0	100.00
4338	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	1684	18.0-46.0- 0.0	18.1	45.6	0.0	99.53
4339	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	1831	18.0-46.0- 0.0	17.4	45.9	0.0	98.91
4467	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88						
4668	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18						
4734	34.0- 0.0- 0.0	32.8	0.0	0.0	96.47*						
1604	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22						
1652	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00						
1657	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65						
1767	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65						

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value	MANUFACTURER		% FOUND			% Relative Value																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
No.	Grade	Nitrogen	P ₂ O ₅	Potash		No.	Grade	Nitrogen	P ₂ O ₅	Potash																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
MFA PLANT FOODS					COLUMBIA, MO					MFA PLANT FOODS					COLUMBIA, MO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3481	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	2527	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	3716	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	2528	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	3719	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94	2529	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	3720	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24	2532	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	3722	34.0- 0.0- 0.0	32.7	0.0	0.0	96.18*	2533	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	3723	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76	2783	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	3725	34.0- 0.0- 0.0	33.2	0.0	0.0	97.65	3025	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	3960	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	3026	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	3968	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	3029	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	4174	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06	3280	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	4182	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53	3281	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4183	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82	3284	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4184	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24	3285	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	4185	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	3286	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4196	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12	3287	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4335	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	3288	46.0- 0.0- 0.0	45.8	0.0	0.0	99.57	4342	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	3290	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	4345	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82	3292	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	4346	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	3515	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	4347	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82	3516	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	4348	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82	3519	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4349	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06	3520	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4462	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	3521	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4463	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82	3523	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4464	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24	3764	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4468	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53	3765	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	4470	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	3771	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30	4597	34.0- 0.0- 0.0	34.0	0.0	0.0	100.00	3772	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4599	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	3774	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	4600	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	4007	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	4669	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82	4009	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	4670	34.0- 0.0- 0.0	33.4	0.0	0.0	98.24	4012	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4804	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53	4217	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4866	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	4378	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	1607	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	4379	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1640	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4490	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30	1651	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4493	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	1653	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4494	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1760	46.0- 0.0- 0.0	46.6	0.0	0.0	101.30	4618	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	1769	46.0- 0.0- 0.0	45.5	0.0	0.0	98.91	4679	46.0- 0.0- 0.0	45.7	0.0	0.0	99.35	1771	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	4750	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	1772	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4752	46.0- 0.0- 0.0	45.7	0.0	0.0	99.35	1773	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	4753	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	1776	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4838	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	1778	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	#TOTALS - NO. SAMPLES 923 - SMPLS MISBRANDED 4 - 100.54										
MFA PLANT FOODS					HAYTI, MO					MFA PLANT FOODS					HAYTI, MO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
1783	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22	2386**	0.0- 0.0-20.0	0.0	0.0	21.4	107.00	1784	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43	1893	0.0- 0.0-60.0	0.0	0.0	61.1	101.83	1786	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	1895	0.0- 0.0-60.0	0.0	0.0	61.3	102.17	1792	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	2400	0.0- 0.0-60.0	0.0	0.0	61.7	102.83	1793	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	2649	0.0- 0.0-60.0	0.0	0.0	61.5	102.50	2017	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	2893	0.0- 0.0-60.0	0.0	0.0	61.3	102.17	2018	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	3170	0.0- 0.0-60.0	0.0	0.0	60.6	101.00	2019	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	4574	0.0- 0.0-60.0	0.0	0.0	61.2	102.00	2021	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1873	0.0-46.0- 0.0	0.0	46.4	0.0	100.87	2022	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22	1874	0.0-46.0- 0.0	0.0	47.5	0.0	103.26	2023	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22	2376	0.0-46.0- 0.0	0.0	46.0	0.0	100.00	2024	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22	2635	0.0-46.0- 0.0	0.0	46.0	0.0	100.00	2030	46.0- 0.0- 0.0	45.7	0.0	0.0	99.35	2874	0.0-46.0- 0.0	0.0	46.4	0.0	100.87	2033	46.0- 0.0- 0.0	47.4	0.0	0.0	103.04	2847	5.0-20.0-20.0	5.2	20.9	20.2	103.43	2035	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78	1825	18.0-46.0- 0.0	17.4	45.5	0.0	98.28	2036	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	2610	18.0-46.0- 0.0	17.7	45.5	0.0	98.75	2037	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	2854	18.0-46.0- 0.0	17.6	45.6	0.0	98.75	2038	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	4544	18.0-46.0- 0.0	17.6	45.6	0.0	98.75	2039	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	2511**	21.0- 0.0- 0.0	20.9	0.0	0.0	99.52	2271	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	2557**	21.0- 0.0- 0.0	21.1	0.0	0.0	100.48	2273	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65	3005**	21.0- 0.0- 0.0	21.3	0.0	0.0	101.43	2275	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	1964	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82	2277	46.0- 0.0- 0.0	46.0	0.0	0.0	100.00	1966	34.0- 0.0- 0.0	33.9	0.0	0.0	99.71	2520	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09	2552	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82																																																																																																																																																																																																																																																																	

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value	MANUFACTURER		% FOUND			% Relative Value	
No.	Grade	Nitrogen	P ₂ O ₅	Potash		No.	Grade	Nitrogen	P ₂ O ₅	Potash		
MIDWEST FERTILIZER, INC					PAOLA, KS							
2153	0.0- 0.0-60.0	0.0	0.0	59.6	99.33	MISSISSIPPI PHOSPHATES CORPORATION					YAZOO CITY, MS	
2395	0.0- 0.0-60.0	0.0	0.0	60.6	101.00	4775	18.0-46.0- 0.0	18.0	45.8	0.0	99.69	
2654	0.0- 0.0-60.0	0.0	0.0	60.7	101.17	#TOTALS - NO. SAMPLES					2 - SMPLS MISBRANDED 0 - 99.45	
2666	0.0- 0.0-60.0	0.0	0.0	59.6	99.33	MISSISSIPPI POTASH INC.					YAZOO CITY, MS	
3890	0.0- 0.0-60.0	0.0	0.0	60.3	100.50	1699	0.0- 0.0-60.0	0.0	0.0	60.5	100.83	
4143	0.0- 0.0-60.0	0.0	0.0	60.8	101.33	1897	0.0- 0.0-60.0	0.0	0.0	62.6	104.33	
4310	0.0- 0.0-60.0	0.0	0.0	60.1	100.17	1899	0.0- 0.0-60.0	0.0	0.0	62.3	103.83	
4575	0.0- 0.0-60.0	0.0	0.0	61.9	103.17	1900	0.0- 0.0-60.0	0.0	0.0	62.6	104.33	
4576	0.0- 0.0-60.0	0.0	0.0	61.0	101.67	1901	0.0- 0.0-60.0	0.0	0.0	62.4	104.00	
1883	0.0-11.3- 0.0	0.0	12.8	0.0	113.27	1902	0.0- 0.0-60.0	0.0	0.0	60.3	100.50	
1680	18.0-46.0- 0.0	18.0	45.8	0.0	99.69	1903	0.0- 0.0-60.0	0.0	0.0	62.2	103.67	
1846	18.0-46.0- 0.0	17.7	45.6	0.0	98.91	2660	0.0- 0.0-60.0	0.0	0.0	61.0	101.67	
2067	18.0-46.0- 0.0	18.6	46.8	0.0	102.19	2902	0.0- 0.0-60.0	0.0	0.0	60.0	100.00	
2102	18.0-46.0- 0.0	18.2	45.5	0.0	99.53	3616	0.0- 0.0-60.0	0.0	0.0	62.2	103.67	
2355	18.0-46.0- 0.0	17.5	45.8	0.0	98.91	4788	0.0- 0.0-60.0	0.0	0.0	61.1	101.83	
2614	18.0-46.0- 0.0	17.7	45.8	0.0	99.22	4826	0.0- 0.0-60.0	0.0	0.0	62.5	104.17	
2631	18.0-46.0- 0.0	17.8	46.3	0.0	100.16	2673	0.0- 0.0-61.0	0.0	0.0	61.9	101.48	
3128	18.0-46.0- 0.0	18.0	46.1	0.0	100.16	1711	0.0- 0.0-62.0	0.0	0.0	61.6	99.35	
3838	18.0-46.0- 0.0	18.1	45.6	0.0	99.53	1713	0.0- 0.0-62.0	0.0	0.0	61.8	99.68	
4075	18.0-46.0- 0.0	18.0	45.8	0.0	99.69	1939	0.0- 0.0-62.0	0.0	0.0	62.4	100.65	
4251	18.0-46.0- 0.0	17.8	46.3	0.0	100.16	1941	0.0- 0.0-62.0	0.0	0.0	62.6	100.97	
4255	18.0-46.0- 0.0	18.0	46.4	0.0	100.63	2167	0.0- 0.0-62.0	0.0	0.0	61.5	99.19	
4256	18.0-46.0- 0.0	17.9	46.2	0.0	100.16	2188	0.0- 0.0-62.0	0.0	0.0	62.3	100.48	
4258	18.0-46.0- 0.0	18.0	46.2	0.0	100.31	2189	0.0- 0.0-62.0	0.0	0.0	62.1	100.16	
4260	18.0-46.0- 0.0	17.7	46.3	0.0	100.00	2189	0.0- 0.0-62.0	0.0	0.0	62.4	100.65	
4546	18.0-46.0- 0.0	17.6	46.2	0.0	99.69	3910	0.0- 0.0-62.0	0.0	0.0	62.7	101.13	
1728	34.0- 0.0- 0.0	33.9	0.0	0.0	99.71	#TOTALS - NO. SAMPLES					40 - SMPLS MISBRANDED 0 - 101.50	
1730	34.0- 0.0- 0.0	33.9	0.0	0.0	99.71	MORGAN FERTILIZER, INC					WYACONDA, MO	
1731	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12	3116	11.0-52.0- 0.0	12.1	51.2	0.0	100.48	
1952	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59	#TOTALS - NO. SAMPLES					1 - SMPLS MISBRANDED 0 - 100.48	
1953	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	CITY OF NIXA					NIXA, MO	
1954	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94	4297	0.05-0.05-0.05	0.8	0.7	0.3	13200.00	
1960	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06	#TOTALS - NO. SAMPLES					1 - SMPLS MISBRANDED 0 - 13200.00	
1982	34.0- 0.0- 0.0	33.8	0.0	0.0	99.41	BRUCE OAKLEY INC					BEEBE, AR	
2236	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	2136	0.0- 0.0-60.0	0.0	0.0	60.8	101.33	
2237	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	2138	0.0- 0.0-60.0	0.0	0.0	60.7	101.17	
2499	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	2068	18.0-46.0- 0.0	18.1	46.5	0.0	100.94	
2500	34.0- 0.0- 0.0	33.3	0.0	0.0	97.94	2072	18.0-46.0- 0.0	17.0	46.6	0.0	99.38	
2550	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	3129	18.0-46.0- 0.0	18.1	45.9	0.0	100.00	
2746	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	3130	18.0-46.0- 0.0	18.2	46.4	0.0	100.94	
2747	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29	3131	18.0-46.0- 0.0	18.4	46.8	0.0	101.88	
2762	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94	2199	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88	
2763	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	2200	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	
3243	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18	2213	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	
3711	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53	2993	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	
3721	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47	3248	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76	
3959	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06	3249	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65	
4337	34.0- 0.0- 0.0	33.9	0.0	0.0	99.71	#TOTALS - NO. SAMPLES					26 - SMPLS MISBRANDED 0 - 101.01	
4343	34.0- 0.0- 0.0	33.6	0.0	0.0	98.82	OAKLEY MISSOURI, INC					CARUTHERSVILLE, MO	
4808	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	1696	0.0- 0.0-60.0	0.0	0.0	60.6	101.00	
1768	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1890	0.0- 0.0-60.0	0.0	0.0	60.5	100.83	
2525	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1891	0.0- 0.0-60.0	0.0	0.0	60.6	101.00	
3770	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	1894	0.0- 0.0-60.0	0.0	0.0	61.3	102.17	
4216	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87	2150	0.0- 0.0-60.0	0.0	0.0	60.5	100.83	
#TOTALS - NO. SAMPLES					88 - SMPLS MISBRANDED	0 - 100.50	MIDWEST PLANT FOOD & SUPPLY					SPRINGFIELD, MO
2645**	0.0- 0.0-22.0	0.0	0.0	21.2	96.36*	MISSISSIPPI CHEMICAL COMPANY, LP					YAZOO CITY, MS	
#TOTALS - NO. SAMPLES					1 - SMPLS MISBRANDED	1 - 96.36	3902	0.0- 0.0-61.0	0.0	0.0	60.4	99.02
MISSISSIPPI CHEMICAL COMPANY, LP					YAZOO CITY, MS							
3125	18.0-46.0- 0.0	18.2	45.8	0.0	100.00	3179	0.0- 0.0-60.0	0.0	0.0	61.0	101.67	
3837	18.0-46.0- 0.0	17.5	46.0	0.0	99.22	3180	0.0- 0.0-60.0	0.0	0.0	60.5	100.83	
1631	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94	3618	0.0- 0.0-60.0	0.0	0.0	61.3	102.17	
3962	34.0- 0.0- 0.0	35.5	0.0	0.0	104.41	4436	0.0- 0.0-60.0	0.0	0.0	60.9	101.50	
4806	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35	4784	0.0- 0.0-60.0	0.0	0.0	60.3	100.50	
#TOTALS - NO. SAMPLES					11 - SMPLS MISBRANDED	0 - 101.26	4824	0.0- 0.0-60.0	0.0	0.0	60.5	100.83
MISSISSIPPI PHOSPHATES CORPORATION					YAZOO CITY, MS							
4774	18.0-46.0- 0.0	18.0	45.5	0.0	99.22	4825	0.0- 0.0-60.0	0.0	0.0	60.9	101.50	
#TOTALS - NO. SAMPLES					2 - SMPLS MISBRANDED	0 - 99.45	1876	0.0-46.0- 0.0	0.0	47.3	0.0	102.83
#TOTALS - NO. SAMPLES					2 - SMPLS MISBRANDED	0 - 99.45	2377	0.0-46.0- 0.0	0.0	47.4	0.0	103.04
#TOTALS - NO. SAMPLES					40 - SMPLS MISBRANDED	0 - 101.50	2875	0.0-46.0- 0.0	0.0	47.8	0.0	103.91

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
OAKLEY MISSOURI, INC		CARUTHERSVILLE, MO			
4298	0.0-46.0- 0.0	0.0	46.3	0.0	100.65
4426	0.0-46.0- 0.0	0.0	46.6	0.0	101.30
4781	0.0-46.0- 0.0	0.0	46.1	0.0	100.22
1674	18.0-46.0- 0.0	17.7	45.3	0.0	98.44
1824	18.0-46.0- 0.0	17.7	46.0	0.0	99.53
1827	18.0-46.0- 0.0	17.5	45.4	0.0	98.28
1828	18.0-46.0- 0.0	17.5	46.0	0.0	99.22
2097	18.0-46.0- 0.0	18.0	46.1	0.0	100.16
2370	18.0-46.0- 0.0	17.5	45.4	0.0	98.28
2371	18.0-46.0- 0.0	18.0	45.8	0.0	99.69
2608	18.0-46.0- 0.0	17.8	45.2	0.0	98.44
2611	18.0-46.0- 0.0	17.8	45.5	0.0	98.91
3117	18.0-46.0- 0.0	18.4	45.7	0.0	100.16
3323	18.0-46.0- 0.0	18.2	45.6	0.0	99.69
3568	18.0-46.0- 0.0	18.5	46.0	0.0	100.78
3845	18.0-46.0- 0.0	17.9	45.7	0.0	99.38
4409	18.0-46.0- 0.0	17.8	45.8	0.0	99.38
4766	18.0-46.0- 0.0	18.2	46.0	0.0	100.31
4814	18.0-46.0- 0.0	18.0	45.4	0.0	99.06
4815	18.0-46.0- 0.0	17.8	45.5	0.0	98.91
2509**	21.0- 0.0- 0.0	20.7	0.0	0.0	98.57
2510**	21.0- 0.0- 0.0	20.9	0.0	0.0	99.52
3733**	21.0- 0.0- 0.0	21.0	0.0	0.0	100.00
3734**	21.0- 0.0- 0.0	21.2	0.0	0.0	100.95
3974**	21.0- 0.0- 0.0	21.2	0.0	0.0	100.95
2551	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
2738	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
4834	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
1655	46.0- 0.0- 0.0	46.1	0.0	0.0	100.22
1757	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
2776	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
4006	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
4373	46.0- 0.0- 0.0	46.5	0.0	0.0	101.09
4374	46.0- 0.0- 0.0	46.2	0.0	0.0	100.43
4748	46.0- 0.0- 0.0	45.9	0.0	0.0	99.78
#TOTALS - NO. SAMPLES	92 - SMPLS MISBRANDED	0 -	100.49		
OLEAN SEED - FERTILIZER CO		OLEAN, MO			
2571	17.0-17.0-17.0	16.9	19.3	19.2	107.76
2634	23.0-11.0-11.0	24.2	11.0	10.9	102.91
#TOTALS - NO. SAMPLES	2 - SMPLS MISBRANDED	0 -	105.42		
PACIFIC COAST RESOURCES, CORP.		LONG BEACH, CA			
2978	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -	102.65		
PCS SALES (USA), INC		SKOKIE, IL			
4660	0.0- 0.0-60.0	0.0	0.0	60.7	101.17
4827	0.0- 0.0-60.0	0.0	0.0	60.8	101.33
2187	0.0- 0.0-62.0	0.0	0.0	62.4	100.65
4830	0.0- 0.0-62.0	0.0	0.0	62.5	100.81
#TOTALS - NO. SAMPLES	8 - SMPLS MISBRANDED	0 -	100.86		
PLANT RIGHT INC		PURDY, MO			
4296	3.0- 3.0- 3.0	4.4	2.9	3.2	118.67
#TOTALS - NO. SAMPLES	3 - SMPLS MISBRANDED	1 -	116.13		
PLATTNER BROS		GRAND PASS, MO			
#TOTALS - NO. SAMPLES	2 - SMPLS MISBRANDED	0 -	101.48		
RAY-CARROLL COUNTY GRAIN GROWERS		SUMNER, MO			
3643	0.0- 0.0-62.0	0.0	0.0	62.1	100.16
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -	100.16		
RAY-CARROLL CO GRAIN GROWERS INC		RICHMOND, MO			
2913	0.0- 0.0-62.0	0.0	0.0	61.6	99.35
2784	46.0- 0.0- 0.0	46.3	0.0	0.0	100.65
#TOTALS - NO. SAMPLES	2 - SMPLS MISBRANDED	0 -	100.12		

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
RICKETTS FARM SERVICE INC		SALISBURY, MO			
2674	0.0- 0.0-62.0	0.0	0.0	61.2	98.71
#TOTALS - NO. SAMPLES	1 - SMPLS MISBRANDED	0 -	98.71		
ROYSTER-CLARK AGRIBUSINESS, INC		BOONVILLE, MO			
1945	0.0- 0.0-62.0	0.0	0.0	62.8	101.29
2179	0.0- 0.0-62.0	0.0	0.0	62.6	100.97
2191	0.0- 0.0-62.0	0.0	0.0	62.3	100.48
2192	0.0- 0.0-62.0	0.0	0.0	62.3	100.48
2412	0.0- 0.0-62.0	0.0	0.0	61.8	99.68
2413	0.0- 0.0-62.0	0.0	0.0	62.7	101.13
2414	0.0- 0.0-62.0	0.0	0.0	63.2	101.94
2911	0.0- 0.0-62.0	0.0	0.0	62.3	100.48
3427	0.0- 0.0-62.0	0.0	0.0	62.1	100.16
3639	0.0- 0.0-62.0	0.0	0.0	63.0	101.61
3646	0.0- 0.0-62.0	0.0	0.0	62.6	100.97
3908	0.0- 0.0-62.0	0.0	0.0	62.1	100.16
3909	0.0- 0.0-62.0	0.0	0.0	61.8	99.68
4146	0.0- 0.0-62.0	0.0	0.0	62.6	100.97
4148	0.0- 0.0-62.0	0.0	0.0	62.3	100.48
4150	0.0- 0.0-62.0	0.0	0.0	62.5	100.81
4151	0.0- 0.0-62.0	0.0	0.0	62.7	101.13
4153	0.0- 0.0-62.0	0.0	0.0	62.7	101.13
4582	0.0- 0.0-62.0	0.0	0.0	63.0	101.61
4585	0.0- 0.0-62.0	0.0	0.0	62.2	100.32
4794	0.0- 0.0-62.0	0.0	0.0	62.4	100.65
4796	0.0- 0.0-62.0	0.0	0.0	62.8	101.29
2066	11.0-52.0- 0.0	11.3	53.2	0.0	102.38
4062	11.0-52.0- 0.0	11.3	52.5	0.0	101.27
4763	11.0-52.0- 0.0	11.1	52.1	0.0	100.32
1617	18.0-46.0- 0.0	17.9	46.5	0.0	100.63
1866	18.0-46.0- 0.0	18.1	46.2	0.0	100.47
1867	18.0-46.0- 0.0	17.8	45.7	0.0	99.22
2090	18.0-46.0- 0.0	17.9	45.8	0.0	99.53
2112	18.0-46.0- 0.0	17.8	46.2	0.0	100.00
2344	18.0-46.0- 0.0	17.6	45.3	0.0	98.28
2346	18.0-46.0- 0.0	17.4	45.7	0.0	98.59
2860	18.0-46.0- 0.0	18.2	45.6	0.0	99.69
3341	18.0-46.0- 0.0	18.4	46.6	0.0	101.56
3592	18.0-46.0- 0.0	17.8	46.0	0.0	99.69
3832	18.0-46.0- 0.0	18.0	45.6	0.0	99.38
3834	18.0-46.0- 0.0	18.2	45.4	0.0	99.38
4072	18.0-46.0- 0.0	17.8	45.4	0.0	98.75
4074	18.0-46.0- 0.0	17.5	45.7	0.0	98.75
4079	18.0-46.0- 0.0	18.2	45.4	0.0	99.38
4080	18.0-46.0- 0.0	18.1	45.4	0.0	99.22
4082	18.0-46.0- 0.0	17.9	45.1	0.0	98.44
4416	18.0-46.0- 0.0	17.8	46.2	0.0	100.00
4553	18.0-46.0- 0.0	17.5	46.3	0.0	99.69
4556	18.0-46.0- 0.0	17.6	46.1	0.0	99.53
4557	18.0-46.0- 0.0	17.5	45.9	0.0	99.06
4776	18.0-46.0- 0.0	17.4	45.6	0.0	98.44
1638**	21.0- 0.0- 0.0	20.9	0.0	0.0	99.52
1635	33.5- 0.0- 0.0	34.4	0.0	0.0	102.69
1636	33.5- 0.0- 0.0	34.6	0.0	0.0	103.28
2507	33.5- 0.0- 0.0	33.4	0.0	0.0	99.70
2508	33.5- 0.0- 0.0	34.2	0.0	0.0	102.09
3729	33.5- 0.0- 0.0	34.5	0.0	0.0	102.99
3730	33.5- 0.0- 0.0	33.7	0.0	0.0	100.60
1632	34.0- 0.0- 0.0	34.8	0.0	0.0	102.35
2243	34.0- 0.0- 0.0	35.4	0.0	0.0	104.12
2246	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
2481	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06
2487	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59
2488	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47
3472	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
3710	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
3712	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06
4173	34.0- 0.0- 0.0	34.6	0.0	0.0	101.76
4177	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
4178	34.0- 0.0- 0.0	34.5	0.0	0.0	101.47
4179	34.0- 0.0- 0.0	34.3	0.0	0.0	100.88

BULK DRY FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
UNITED SUPPLIERS, INC		ST JOSEPH, MO			
3173	0.0- 0.0-60.0	0.0	0.0	60.4	100.67
3626	0.0- 0.0-60.0	0.0	0.0	60.9	101.50
4446	0.0- 0.0-60.0	0.0	0.0	61.2	102.00
4828	0.0- 0.0-60.0	0.0	0.0	61.0	101.67
4829	0.0- 0.0-60.0	0.0	0.0	60.6	101.00
1810	11.0-52.0- 0.0	11.2	53.0	0.0	101.90
1814	11.0-52.0- 0.0	11.1	52.1	0.0	100.32
1815	11.0-52.0- 0.0	11.1	51.7	0.0	99.68
2343	11.0-52.0- 0.0	11.1	52.8	0.0	101.43
3114	11.0-52.0- 0.0	11.4	51.6	0.0	100.00
3563	11.0-52.0- 0.0	11.4	52.8	0.0	101.90
4407	11.0-52.0- 0.0	11.5	51.9	0.0	100.63
4820	11.0-52.0- 0.0	11.3	51.8	0.0	100.16
1851	18.0-46.0- 0.0	17.6	46.2	0.0	99.69
3118	18.0-46.0- 0.0	18.6	46.3	0.0	101.41
3119	18.0-46.0- 0.0	18.5	46.1	0.0	100.94
3120	18.0-46.0- 0.0	18.2	46.3	0.0	100.78
4419	18.0-46.0- 0.0	17.8	45.9	0.0	99.53
4818	18.0-46.0- 0.0	18.0	45.5	0.0	99.22
1748**	21.0- 0.0- 0.0	21.3	0.0	0.0	101.43
1988	34.0- 0.0- 0.0	35.3	0.0	0.0	103.82
2484	34.0- 0.0- 0.0	33.3	0.0	0.0	97.94
2490	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
3228	34.0- 0.0- 0.0	33.5	0.0	0.0	98.53
3241	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24
#TOTALS - NO. SAMPLES		44	- SMPLS MISBRANDED	0	- 100.80
VAN DIEST SUPPLY COMPANY		MARSHALL, MO			
2261**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		2	- SMPLS MISBRANDED	0	- 100.00
WEST CENTRAL AGRISERVICES, LLC		HARRISONVILLE, MO			
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 98.26
WILLARD GRAIN & FEED, INC-CELINA		CELINA, TX			
2981	34.0- 0.0- 0.0	34.2	0.0	0.0	100.59
2982	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29
2983	34.0- 0.0- 0.0	34.4	0.0	0.0	101.18
#TOTALS - NO. SAMPLES		19	- SMPLS MISBRANDED	0	- 101.13
WILLARD GRAIN & FEED, INC-PRYOR		CELINA, TX			
1732	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24
1735	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
1983	34.0- 0.0- 0.0	34.7	0.0	0.0	102.06
2196	34.0- 0.0- 0.0	35.2	0.0	0.0	103.53
2497	34.0- 0.0- 0.0	34.1	0.0	0.0	100.29
2742	34.0- 0.0- 0.0	35.0	0.0	0.0	102.94
3715	34.0- 0.0- 0.0	34.9	0.0	0.0	102.65
#TOTALS - NO. SAMPLES		9	- SMPLS MISBRANDED	0	- 102.48
YUNGBERG AGRI SERVICE		PRINCETON, MO			
3242	34.0- 0.0- 0.0	35.1	0.0	0.0	103.24
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 103.24

* Subject to penalty (either 10% or two units deficient from guarantee in nutrient indicated, or 3% deficient in total value).

** Sample analyzed for guaranteed secondary or micronutrients, the results are tabulated beginning page 39.

Totals from July 1, 1999.

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
A & L AG CENTER		SEDALIA, MO			
3672**	21.0-10.0-10.0	21.6	11.2	9.3	104.03
3680**	22.5-10.0-10.0	23.3	9.7	11.0	102.67
3681**	22.5-10.0-10.0	23.7	10.5	9.6	104.00
3682**	22.5-10.0-10.0	23.8	10.3	10.2	104.53
#TOTALS - NO. SAMPLES		8	- SMPLS MISBRANDED	0	- 103.98
ADAMS FERTILIZER INC.		SENATH, MO			
3556	6.0-18.0-36.0	7.6	20.2	34.6	107.38
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 107.38
AG COOP SERVICES INC		BOONVILLE, MO			
3650	11.4-28.6-22.9	11.2	29.0	23.4	100.87
3666	19.4-16.2-16.2	20.2	16.5	15.4	101.60
3703	26.1- 8.7- 8.7	27.2	8.6	8.4	102.17
#TOTALS - NO. SAMPLES		6	- SMPLS MISBRANDED	0	- 100.80
AG COOP SERVICES INC		LA MONTE, MO			
4160**	21.3-10.2-15.4	21.8	11.4	14.3	102.93
4161**	21.3-10.2-15.4	20.7	10.7	16.3	100.89
2461	22.0-12.0-12.0	22.8	10.6*	10.9	97.13
2462	22.0-12.0-12.0	22.9	11.2	11.6	99.75
#TOTALS - NO. SAMPLES		4	- SMPLS MISBRANDED	1	- 100.15
AG COOP SERVICES INC		SEDALIA, MO			
4054	5.2-25.0-32.1	5.8	27.0	30.8	104.22
2318	9.0-23.1-30.8	8.6	22.9	31.5	99.47
4045	9.0-23.0-31.0	9.1	23.1	31.2	100.63
#TOTALS - NO. SAMPLES		5	- SMPLS MISBRANDED	0	- 100.74
AG DISTRIBUTORS		CATRON, MO			
3049**	17.5- 8.5-17.5	17.4	9.8	18.0	104.17
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 104.17
AG DISTRIBUTORS		DEXTER, MO			
2821**	15.0-12.0-26.5	15.2	12.1	27.7	102.24
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 102.24
AG DISTRIBUTORS		DEERING, MO			
2788	21.0- 0.0-32.0	20.2	0.0	34.4	101.08
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 101.08
AG DISTRIBUTORS		KENNETT, MO			
3794**	22.0-11.0-20.0	22.2	11.8	20.5	102.91
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	0	- 102.91
AG SERVICE CENTER OF SOUTHWEST MO		LOCKWOOD, MO			
2687	17.4-17.4-17.4	19.6	17.0	17.4	104.14
2688	17.4-17.4-17.4	18.0	16.9	19.6	102.76
3447	19.0- 9.0-19.0	17.6	11.6	22.7	108.13
2456	21.0-14.0-14.0	22.1	12.8	13.1	98.69
2468	23.0-11.2-11.2	22.8	11.2	13.3	102.14
#TOTALS - NO. SAMPLES		7	- SMPLS MISBRANDED	0	- 103.68
AG SERVICE CENTER OF SOUTHWEST MO		PIERCE CITY, MO			
2692	17.8-17.8-17.8	17.7	18.1	18.3	101.01
2713	22.8- 7.6-15.4	21.9	8.8	16.9	102.76
2957	22.8- 7.6-15.4	21.3	11.4	15.7	106.43
2958	22.8- 7.6-15.4	22.3	7.9	15.4	99.48
3684	22.8- 7.6-15.2	20.4*	9.8	18.0	103.16
#TOTALS - NO. SAMPLES		6	- SMPLS MISBRANDED	2	- 104.63
AGRI ENTERPRISES		LICKING, MO			
3949	23.4-11.7-11.7	24.2	10.3*	13.1	100.24
#TOTALS - NO. SAMPLES		1	- SMPLS MISBRANDED	1	- 100.24
AGRI SERVICES OF LEBANON INC		LEBANON, MO			
3914	9.2-12.2-36.8	8.0*	11.2	39.5	97.86
3207	21.8-19.4- 9.7	22.2	20.4	9.7	103.04
2974	22.6-32.7- 0.0	23.0	33.0	0.0	101.27
3217	23.4-11.7-11.7	23.2	12.4	11.7	101.22

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AGRI SERVICES OF LEBANON INC		LEBANON, MO			
3955	26.1- 8.7- 8.7	27.1	8.2	9.4	102.17
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	1 -	101.17
AGRISERVICES OF BRUNSWICK, LLC		BRUNSWICK, MO			
3813	9.3-23.7-29.6	9.6	23.6	29.9	100.73
3930	19.9-14.0-14.0	21.0	13.6	13.0	100.49
3931**	19.9-14.0-14.0	19.6	13.4	14.4	98.29
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	99.73
AGRO DISTRIBUTION, LLC		COOTER, MO			
2885	0.0-15.0-40.0	0.0	14.7	42.0	102.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.00
AGRO DISTRIBUTION LLC		NEVADA, MO			
4238	9.0-23.0-30.0	8.8	23.1	30.3	100.11
1663	27.0-13.0-13.0	27.0	12.9	15.2	102.15
4502	27.0-13.0-13.0	27.6	14.1	13.5	104.19
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.14
AGRO DISTRIBUTION LLC		PORTAGEVILLE, MO			
3547**	13.0-15.0-20.5	14.1	16.0	19.0	103.53
3709	25.0- 0.0-15.0	25.3	0.0	16.6	103.38
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.46
AGRO DISTRIBUTION LLC		RICH HILL, MO			
3814	9.0-23.0-27.0	9.6	24.9	28.0	106.59
3815	9.0-23.0-27.0	9.3	24.3	28.4	105.05
3798**	12.0- 7.0-12.0	13.0	9.4	12.6	114.80
3799**	12.0- 7.0-12.0	12.6	8.4	14.7	113.40
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	108.75
AGRO DISTRIBUTION, LLC		SENATH, MO			
1886	0.0-13.5-41.0	0.0	16.6	37.0*	103.24
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	103.24
AGRO DISTRIBUTION, LLC		SIKESTON, MO			
3102**	7.0-20.0-27.0	9.1	23.7	27.1	114.44
4505**	20.0- 5.0-27.0	19.4	5.7	29.5	103.51
2813**	21.0-16.0-13.0	21.2	15.2	13.4	99.08
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	105.55
AGRO DISTIBUTION, LLC (BALLARD)		URICH, MO			
2431	14.0-11.0-28.0	14.5	10.9	28.9	102.18
2435	16.0-19.0-19.0	16.4	19.1	19.4	101.57
2451	20.0-13.0-13.0	20.8	14.4	14.2	107.09
2467	23.0-11.0-11.0	22.6	10.9	11.7	99.62
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.58
AGRO DISTRIBUTION LLC (WALKER)		WALKER, MO			
1805	22.8-13.7-13.8	23.3	14.2	14.1	102.65
1801	25.5-10.6-17.1	24.6	10.4	19.0	99.66
1800	26.2-11.2-11.3	26.0	11.4	12.0	100.81
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.02
AGTURF INC-MACON PLANT		CALLAO, MO			
3539	27.0-13.5-13.5	25.0	11.6*	18.7	97.25
3530	37.0- 6.0- 6.0	36.8	7.3	6.8	103.26
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	100.21
ALLDREDGE FEED & SEED INC		STANBERRY, MO			
3455	21.6-12.9-12.9	22.2	13.1	13.8	103.05
2704	21.9-13.0-13.0	23.3	12.8	13.8	103.86
3461	23.3-11.6-11.6	23.5	11.9	12.3	102.09
4595	23.3-11.6-11.6	23.0	13.2	12.0	103.69
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	103.17
ALMA FARMERS COOP ASSN		ALMA, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	98.52

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
ANNADA ELEVATOR CO, INC		ANNADA, MO			
3743	20.6- 5.5-13.7	21.2	5.0	13.0	99.24
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.24
ARNETT AGRI SERVICE		LA MONTE, MO			
4540**	4.0-10.5-42.0	3.9	10.1	44.3	101.83
4629	9.0-23.0-31.0	8.8	22.9	31.4	99.79
4628	10.0-26.0-26.0	10.3	26.5	26.5	102.14
3938	21.5-14.0-13.0	22.0	15.0	14.1	104.88
3937	21.5-15.0-12.5	21.8	14.9	14.3	102.57
4593	22.5-11.0-13.5	23.6	13.2	10.4*	104.35
#TOTALS - NO. SAMPLES		8 - SMPLS	MISBRANDED	1 -	102.37
ARRINGTON AG SERVICE		NEELYVILLE, MO			
4133	0.0-15.0-31.0	0.0	17.0	30.7	106.07
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	106.07
AUDRAIN COOPERATIVE ASSN-CENTRALIA		THOMPSON, MO			
4698	8.0-37.8-16.8	8.1	36.7	18.2	99.45
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.32
AUDRAIN COOPERATIVE ASSOCIATION		THOMPSON, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.59
B & B COTTON CO		CAMPBELL, MO			
3820**	7.0-12.0-32.0	8.6	12.3	30.6	103.43
3915**	14.0-14.0-14.0	14.9	13.1	15.8	102.57
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.76
BACKES & TOELKE AGRI PRODUCTS INC		NEW HAVEN, MO			
2708**	22.5-11.3-11.3	23.5	11.4	11.5	103.04
3687**	23.0-11.0-11.0	22.7	12.6	11.7	104.18
4383	33.5- 6.2- 8.2	34.0	6.6	8.6	102.51
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.21
BALL FERTILIZER		KAHOKA, MO			
4247**	4.0-19.5-37.6	4.3	17.0*	41.6	99.53
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	99.53
BARING FARM SERVICE, INC		BARING, MO			
4394	4.0-22.0-33.0	4.6	22.8	35.2	105.88
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	105.88
BARRY COUNTY FARMERS CO-OP		EXETER, MO			
3441	17.5-17.5-17.5	18.7	17.8	17.5	103.43
3458	22.5- 7.3-15.0	23.5	7.4	14.8	102.68
3459	22.5- 7.3-15.0	23.4	7.4	15.1	102.82
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.99
BARRY COUNTY FARMERS CO-OP		STARK CITY, MO			
3211	22.5- 7.3-15.0	23.7	7.8	14.6	104.02
3456	22.5- 7.3-15.0	23.9	7.3	15.1	103.89
3457	22.5- 7.3-15.0	23.5	6.9	15.2	101.88
4083	22.5- 7.3-15.0	23.6	7.4	13.8	101.61
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	102.92
BARRY'S ELEVATOR, LLC		CLARENCE, MO			
4320	20.0-11.0-17.0	18.7	10.6	21.8	101.77
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.96
BARTLETT & COMPANY		WAVERLY, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.61
BARTLETT & COMPANY		HIGGINSVILLE, MO			
4055	4.9-23.0-34.5	5.2	23.9	35.1	103.32
4056	4.9-23.0-34.5	5.4	24.6	33.7	103.77
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	100.35
BATESVILLE GRAIN AND FERTILIZER		BROSELEY, MO			
3101	7.0-18.0-36.0	6.7	17.2	38.5	100.35
4632	7.0-18.0-36.0	7.3	19.2	35.6	103.02
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.68

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
BEAUFORT FEED STORE INC		BEAUFORT, MO			
3795	21.0- 8.5-16.5	20.9	7.8	18.4	100.40
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.40
BERNIE FARMERS FERTILIZER		BERNIE, MO			
2786**	38.0- 0.0- 0.0	38.7	0.0	0.0	101.84
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	104.98
BEVILL FERTILIZER		PHILADELPHIA, MO			
3817	9.0-23.0-30.0	8.6	22.0	31.6	98.72
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.72
BICHSEL SPREADING SERVICE		LEONARD, MO			
4329**	22.4- 9.5-11.2	21.1	9.7	12.2	98.40
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	98.91
BOLIVAR FARMERS EXCHANGE		BOLIVAR, MO			
2600**	3.9-10.0-42.0	3.9	10.3	41.0	99.43
3318**	3.9-10.0-42.0	4.0	10.2	42.0	100.86
2430	11.2-11.2-33.7	12.5	11.4	32.3	102.04
2705	22.0-11.0-11.0	23.0	10.8	10.9	101.95
2706	22.0-11.0-11.0	23.3	10.3	10.7	101.17
2723	23.4-11.7-11.7	24.4	12.1	11.1	102.69
#TOTALS - NO. SAMPLES		7 - SMPLS	MISBRANDED	0 -	101.78
BOLIVAR FARMERS EXCHANGE/STOCKTON		STOCKTON, MO			
3451	20.3- 6.7-20.3	20.5	7.4	20.4	102.56
3452	20.3- 6.7-20.3	21.1	6.8	19.6	101.48
3454**	20.6-15.5- 5.2	20.4	15.8	5.6	100.78
4458	23.4-11.7-11.7	23.8	10.6	12.4	99.15
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.94
BOLIVAR FARMERS EXCHANGE/WEAUBLEAU		WEAUBLEAU, MO			
2598	5.5-14.1-42.3	6.2	15.5	40.0*	102.33
2718	23.4-11.7-11.7	25.0	12.6	10.6	104.76
2719	23.4-11.7-11.7	24.6	12.0	10.2*	101.83
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	102.97
BOLLINGER COUNTY CO-OP		MARBLE HILL, MO			
3688	23.0-11.0-11.0	24.2	11.5	12.0	105.57
1799	27.0-13.0-13.0	25.9	15.6	14.6	104.95
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	105.23
BOYLES FARM SERVICE, INC		FISK, MO			
4156**	14.0-15.0-20.0	14.0	13.1*	23.2	99.23
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	102.73
BRASHEAR AG SERVICE		BRASHEAR, MO			
4631	7.0-18.0-36.0	7.2	18.3	37.3	102.67
2294	22.0-11.0-22.0	20.6	11.0	23.1	98.07
2295	22.0-11.0-22.0	21.0	11.4	23.9	100.80
3296	27.0-13.0-13.0	25.8	14.1	15.3	102.26
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.95
BREHMER FERTILIZER, INC		DEXTER, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.55
BROWN'S AGRI SERVICE, INC		ROCK PORT, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	99.22
BRUMBAUGH INC		TAYLOR, MO			
4059**	4.0-21.0-31.0	4.5	20.4	32.8	101.98
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	101.77
BUCHHEIT INC		PERRYVILLE, MO			
2685	17.0-17.0-17.0	17.2	18.6	17.8	105.18
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.05
BUTTERFIELD & ASSOCIATES GRAIN, INC		MEADVILLE, MO			
2726	24.5- 9.5- 9.5	25.8	10.2	9.2	104.77
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	104.68

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
CAMERON COOP ELEVATOR ASSN		CAMERON, MO			
2946	20.0-15.0-15.0	20.3	14.3	15.8	100.00
3855	23.0-11.5-11.5	24.1	10.6	12.0	101.12
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.54
CANTERBURY FARM CENTER		WELLSVILLE, MO			
4222	24.0-16.0-16.0	22.8	15.5	18.8	99.38
4500	27.4-13.7-13.7	26.0	14.8	15.1	100.83
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.54
CARNEAL FARM SUPPLY, INC		BLAIRSTOWN, MO			
2928	17.7-17.7-17.7	17.5	17.4	17.8	98.98
2970	24.9-10.0-10.0	24.8	10.3	11.4	102.26
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.49
CENTRAL COOP INC		ADRIAN, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	98.18
CENTRAL COOPERATIVES INC		HOLDEN, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.56
CENTRAL COOPERATIVES, INC		ODESSA, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.33
CENTRAL COOP INC		PLEASANT HILL, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	99.29
CENTRAL ELEVATOR, INC (OLNEY)		SILEX, MO			
4221	29.6-11.8-11.8	31.6	8.8*	12.0	98.10
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	98.10
CENTRAL ELEVATOR INC		SILEX, MO			
4220	33.8- 8.8- 8.8	33.5	9.6	9.3	101.60
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.60
CENTRAL MISSOURI AGRISERVICE LLC		BLACKBURN, MO			
2329	5.0-23.0-35.0	4.8	22.8	34.9	99.01
3559	5.0-23.0-35.0	4.8	22.9	35.7	100.11
1795	29.0-12.0-12.0	28.8	11.8	12.8	100.00
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	100.28
CENTRAL MISSOURI AGRISERVICE LLC		MALTA BEND, MO			
3551**	8.0-21.0-30.0	8.4	21.2	30.4	101.82
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.99
CENTRAL MISSOURI AGRISERVICE LLC		MARSHALL, MO			
3553	7.0-17.0-39.0	6.6	17.6	39.7	101.26
3544**	21.0-15.0-18.0	20.7	16.0	18.5	102.11
1802	25.0-15.0-14.8	23.4	15.0	16.9	98.84
3536	28.0-14.0-14.0	26.1	14.2	15.3	97.86
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	99.94
CENTRAL MISSOURI AGRISERVICE LLC		SLATER, MO			
3612	0.0-26.0-26.0	0.0	28.4	25.0	104.87
3613	0.0-26.0-26.0	0.0	28.1	26.1	105.51
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	104.99
CHULA FARMERS COOPERATIVE		CHULA, MO			
4044	9.0-23.0-30.0	9.0	22.9	30.9	100.74
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.74
CIRCLE K FARM SUPPLY, INC		SEYMOUR, MO			
2925	17.0-17.0-17.0	18.0	14.8*	19.9	100.59
2940	17.8-17.8-17.8	20.0	15.3*	15.8*	97.08
2959	22.9- 7.6-15.3	24.2	5.5*	14.8	97.25
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	3 -	98.32
CLEVER MILL & SUPPLY INC		CLEVER, MO			
2707	22.2- 7.0-16.5	23.1	4.8*	18.2	98.80
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	98.80

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
CO-OP SERVICE CENTER INC		JACKSON, MO			
2044	30.0-11.0-10.0	31.3	10.6	11.5	103.59
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.59
CO-OP SERVICE CENTER INC		WHITWATER, MO			
2887	0.0-15.0-40.0	0.0	16.4	39.0	102.57
2922	17.0-17.0-17.0	17.8	18.0	16.8	104.00
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.52
CONSUMERS OIL COMPANY, INC		MARYVILLE, MO			
4331	23.0-15.0-15.0	23.1	16.0	16.2	103.74
1659	29.0-11.0-11.0	28.0	12.2	11.9	101.43
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.28
CONSUMERS OIL SUPPLY CO		BRAYMER, MO			
3885	0.0-25.5-25.5	0.0	27.8	25.7	106.27
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	106.27
CRAIG SUPPLY		CRAIG, MO			
4165	23.0-10.5-10.5	23.1	10.9	11.8	102.97
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.10
CPS-HOLLIDAY FARM CENTER		HOLLIDAY, MO			
4040	5.0-23.0-33.0	5.0	23.1	34.4	101.80
2728	25.0- 8.0- 8.0	26.4	8.4	9.2	106.49
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.92
CROP PRODUCTION SERVICES		WESTBORO, MO			
3105	6.0-29.0-27.0	6.0	27.6	29.6	99.79
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.16
CROP PRODUCTION SERVICES		LAPLATA, MO			
3446**	18.5- 8.5-15.0	18.3	7.9	16.7	100.14
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.14
CROP PRODUCTION SERVICES		PARIS, MO			
2334	3.0-14.8-43.6	3.0	13.8	44.7	98.86
3700	25.0-17.0-17.0	17.8*	18.2	16.4	87.52*
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	97.27
D & S FERTILIZER & PROPANE INC		CLINTON, MO			
2683	16.0-16.0-16.0	17.4	16.0	19.0	107.25
2715	23.0-11.0-11.0	24.0	10.6	12.4	103.29
2724	24.0-10.0-10.0	26.4	10.0	9.6	105.64
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	106.89
DALLAS COUNTY FARMERS EXCHANGE		BUFFALO, MO			
3198	17.8-17.8-17.8	17.9	18.2	17.9	101.24
3201	19.0-12.7-19.0	18.8	13.5	19.0	101.46
2975	30.6- 0.0- 6.1	31.6	0.0	5.8	102.53
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.67
DALLAS COUNTY FARMERS EX-FAIR GROVE		BUFFALO, MO			
2129	0.0-25.0-25.0	0.0	26.8	24.7	104.40
2934	17.8-17.8-17.8	17.2	18.4	17.5	99.66
2935	17.8-17.8-17.8	17.4	17.6	18.6	99.55
2955	22.8- 7.6-15.2	21.8	7.5	16.7	99.08
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.57
DALLAS COUNTY FARMERS EXCH-URBANA		BUFFALO, MO			
2313	9.4-24.1-20.8	9.2	24.9	21.1	101.71
2681	10.1-16.7-16.4	10.0	19.1	16.0	106.00
2965	23.4-11.7-11.7	23.6	11.2	12.5	100.24
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.46
DAVIS FERTILIZER CO		GRAHAM, MO			
3093	10.0-26.0-26.0	10.2	24.6	27.8	99.39
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.39
DEBRUCE AG SERVICE, INC		DEARBORN, MO			
3951	24.5-10.0-10.0	24.0	12.9	12.0	108.61
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	106.66

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
DEERFIELD GRAIN		DEERFIELD, MO			
4592	22.5-10.6-13.8	23.0	8.0*	15.0	96.25*
4832	24.4- 6.5-13.0	26.5	5.5*	10.6*	99.73
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	2 -	97.93
DEERING FERTILIZER		DEERING, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.80
DELTA GROWERS ASSOCIATION		CHARLESTON, MO			
3104**	6.0-12.5-24.0	5.3*	10.4*	27.5	96.56*
3094	9.0-23.0-30.0	9.8	24.4	28.4	102.98
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	102.70
DELTA GROWERS ASSOC-EAST PRAIRIE		CHARLESTON, MO			
4047**	8.5-22.0-28.5	8.6	22.1	29.5	101.56
2632**	16.5-43.0- 0.0	16.9	43.0	0.0	100.67
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	104.28
DELTA GROWERS ASSOCIATION-MATTHEWS		CHARLESTON, MO			
3040**	23.0-32.5- 0.0	22.9	34.0	0.0	102.52
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.78
DELTA GROWERS ASSOCIATION-KEWANEE		CHARLESTON, MO			
4025	16.5- 6.5-33.0	15.3	7.1	34.2	100.00
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	106.83
DICKEY FARM SUPPLY INC		BELGRADE, MO			
4390	13.4-21.6-21.6	16.1	22.9	21.2	108.30
3051	17.0-17.0-17.0	17.8	20.3	20.8	114.12
2298	19.4-19.4-19.4	19.6	19.3	19.3	100.10
2299	19.4-19.4-19.4	19.7	19.9	18.6	100.82
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	105.53
DILLON FERTILIZER SERVICE, INC		ST JAMES, MO			
3197	17.8-17.8-17.8	17.7	18.9	18.0	102.47
4318	17.8-17.8-17.8	17.5	17.4	18.7	99.44
2463	22.1-11.4-11.4	24.3	10.8	10.5	102.93
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.56
DISHMAN LIME & PHOSPHATE		HELENA, MO			
3100	8.0-22.0-31.0	8.8	21.8	32.2	102.64
2796	27.0-13.0-13.0	25.8	12.3	14.6	97.63
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.10
DISSEN FARM SUPPLY		NEW HAVEN, MO			
2701	21.0- 9.0-16.0	22.6	9.1	16.7	105.39
3686**	23.0-11.0-10.5	24.4	10.6	10.2	102.17
2727	25.0- 6.0-11.0	26.1	6.1	11.6	104.11
3702	26.0- 8.0- 8.5	27.8	8.5	8.2	105.62
4460	26.0- 8.6- 8.6	25.2	10.2	9.8	103.60
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	104.16
DONLEY FEED & FERTILIZER		THORNFIELD, MO			
3205	20.6- 5.2-20.6	21.1	4.9	20.9	100.97
3225	27.6- 6.9- 6.9	28.8	6.9	7.1	103.43
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.22
DREXEL ELEVATOR		DREXEL, MO			
4242	7.1-18.2-36.3	7.7	19.0	35.5	102.30
4697	10.2-26.0-26.0	10.8	27.4	24.4	102.44
3694	23.3-11.7-11.7	25.0	12.2	9.8*	103.06
2480	30.5-10.1- 0.0	30.9	10.2	0.0	101.23
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	2 -	101.02
DUESTERHAUS FERTILIZER, INC		QUINCY, IL			
4241	7.0-19.0-34.0	7.8	20.4	34.1	105.23
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.67
DUNCAN AGRI SERVICE INC		SAVANNAH, MO			
3932	20.0- 6.0- 8.0	21.4	6.6	8.6	107.67
3450	20.0-13.0- 6.0	21.4	12.4	8.6	105.83

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
DUNCAN AGRI SERVICE INC		SAVANNAH, MO			
3214	23.0-11.0-11.0	24.2	11.9	11.7	106.20
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	106.49
G C DUNN & SONS, INC		MIDDLETOWN, MO			
3856	21.3-14.2-14.2	22.2	13.3	13.0	98.59
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.72
ED HELMREICH FERTILIZER & FARM		BUNCETON, MO			
4057	4.5-21.5-36.0	4.4	20.6	38.4	100.45
2448	19.5-15.5-15.5	20.0	14.7	15.4	99.18
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.89
EL DORADO CHEMICAL COMPANY		KENNETT, MO			
3548**	10.0-12.0-27.0	10.6	11.4	26.8	99.72
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.57
EOLIA FERTILIZER		EOLIA, MO			
2931	17.8-17.8-17.8	17.8	19.7	16.8	103.15
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.50
EX-CEL MILLING, INC		SYRACUSE, MO			
2565	22.0-13.9-20.3	21.6	14.6	20.4	100.76
1609**	25.5-12.5-12.5	24.9	13.7	14.2	103.28
4382	30.0-10.0-12.5	29.8	10.1	13.7	101.08
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.35
FARMERS COOP ASSN		RUSHVILLE, MO			
2460	22.0-11.0-11.0	24.6	10.8	9.7*	104.55
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	104.55
FARMERS COOPERATIVE ASSOC. #301		SULLIVAN, MO			
3034	27.2-10.9-16.3	24.7*	12.4	19.0	100.76
3786	27.2-10.9-16.3	26.6	11.8	16.9	101.30
3787	27.2-10.9-16.3	26.6	12.0	16.5	101.30
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	101.11
FARMERS COOPERATIVE SERVICES, INC		EWING, MO			
4572	0.0-18.0-36.0	0.0	19.8	36.1	105.14
3200	18.0- 9.0-18.0	18.4	9.1	20.6	105.00
3927	19.0- 9.0-19.0	19.9	10.0	20.1	106.53
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	105.42
FARMERS COOPERATIVE SERVICES, INC		PALMYRA, MO			
4170	28.0- 6.0- 6.0	28.0	6.5	6.1	101.49
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.49
FARMERS COOPERATIVE SERVICES, INC		HANNIBAL, MO			
3406	0.0-21.0-32.0	0.0	22.0	32.1	102.84
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.44
FARMERS ELEVATOR & EXCHANGE CO		MONROE CITY, MO			
3887	6.9-24.2-29.1	6.7	26.8	27.3	103.29
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.88
FARMERS ELEVATOR AND SUPPLY CO.		CLINTON, MO			
3195	10.7-21.5-21.5	10.0	24.1	22.0	105.01
3436**	13.7-20.5-20.5	13.1	20.2	22.4	100.11
3444	17.8-17.8-17.8	18.5	17.9	17.8	101.80
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.27
FARMERS ELEVATOR & SUPPLY CO., IN		HAWK POINT, MO			
4538	5.0-12.9-43.1	4.8	12.7	44.9	101.27
2319	8.8-22.7-30.3	9.2	23.5	30.1	102.36
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	100.63
FARMERS FERTILIZER SERVICES		DUDLEY, MO			
3044	20.0-22.5-15.0	19.6	22.4	16.7	100.70
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.40
FARMERS AG CENTER		MOUNTAIN GROVE, MO			
2937	17.8-17.8-17.8	17.9	19.0	17.5	102.58

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
FARMERS AG CENTER		MOUNTAIN GROVE, MO			
2941	17.8-17.8-17.8	17.0	16.3	19.7	96.97*
3923	17.8-17.8-17.8	17.9	18.5	17.8	101.80
2945	20.0- 7.0-20.0	23.7	6.4	14.9*	101.49
3933	20.0- 7.0-20.0	21.6	7.0	18.7	102.57
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	2 -	101.01
FARMERS COOPERATIVE SERVICES, INC		NEW LONDON, MO			
3299	25.0-15.0-15.0	22.9*	15.6	17.4	99.37
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	100.14
FARMERS PRODUCE EXCHANGE-CONWAY		LEBANON, MO			
2890**	0.0-12.3-36.5	0.0	13.7	35.7	103.27
2919	9.5- 9.5-38.0	9.2	10.0	38.5	101.18
2926	17.3-17.3-17.3	17.2	17.3	18.1	100.69
2929	17.8-17.8-17.8	17.9	18.3	18.2	101.80
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.63
FARMERS PRODUCE EXCHANGE-LEBANON		LEBANON, MO			
2384**	0.0-11.4-25.1	0.0	11.9	24.7	101.25
2930	17.8-17.8-17.8	18.4	18.2	17.3	101.69
3061	17.8-17.8-17.8	18.0	18.6	17.1	101.46
3925	17.8-17.8-17.8	18.5	16.4	17.6	98.20
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.57
FOWLER ELEVATOR, INC-HARRIS		NEWTOWN, MO			
3215	23.0-11.0-11.0	22.6	12.2	12.5	103.92
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.92
FOWLER ELEVATOR, INC		UNIONVILLE, MO			
3942	23.0-11.5-11.5	24.0	10.9	11.0	100.37
3943	23.0-11.0-11.0	23.2	9.8*	11.5	98.10
3944	23.0-11.5-11.5	24.1	7.3*	13.0	94.16*
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	97.54
GAGE'S FERTILIZER & GRAIN, INC		ALBANY, MO			
3648	9.5-24.0-24.0	10.2	24.1	24.8	102.64
3089	16.5- 8.0-24.5	16.4	9.4	25.4	104.76
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.67
GAGE'S FERTILIZER & GRAIN INC		STANBERRY, MO			
3193	2.5-11.5-47.5	2.7	12.0	47.0	101.19
2680	9.8-39.5-11.8	10.3	34.8*	11.0	91.67*
3203	19.0-14.0-14.0	18.9	14.9	15.4	103.75
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	98.00
GARD CROP SERVICE		PALMYRA, MO			
3448	19.3- 7.2-19.3	19.5	7.0	20.8	102.07
4667	23.1-17.8- 8.4	22.8	18.1	9.6	101.33
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	1 -	100.60
GLASGOW CO-OP ASSOCIATION		ARMSTRONG, MO			
3781	30.4- 4.6-14.9	30.2	5.7	16.2	103.65
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.81
GLASGOW CO-OP ASSOCIATION		GLASGOW, MO			
2682	13.5- 8.5-26.5	15.1	9.7	25.1	105.96
3664	17.9- 9.4-20.7	17.9	9.4	19.9	98.94
3671	20.5-12.5-12.0	20.7	12.8	11.9	101.15
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.98
GOOD EARTH, INC		BONNE TERRE, MO			
3803	17.0-17.0-17.0	14.6*	18.9	17.6	99.53
3804	17.0-17.0-17.0	14.4*	19.4	17.2	99.76
4389	17.0-17.0-17.0	16.0	17.5	18.0	100.00
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	99.76
GOUGH CROP SERVICE		PERRY, MO			
2330	5.0-26.0-30.0	5.6	24.7	32.2	100.87
4535	6.0-28.0-28.0	6.2	27.0	29.5	99.90
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.37

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
TOM GRAY FARM SERVICE, INC		NAYLOR, MO			
3055	12.0-24.0-24.0	13.2	24.2	24.0	102.92
3045	20.0-29.0-10.0	20.4	29.9	9.6	102.04
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.14
GREGORY FARMS		EOLIA, MO			
2475	25.3- 8.4- 8.4	24.4	7.0*	14.4	101.85
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	101.85
GRO-MOR FERTILIZER INC		WEST PLAINS, MO			
2939	17.8-17.8-17.8	18.7	20.3	16.0*	105.62
2951	21.0-14.0-14.0	21.6	14.1	14.2	101.90
2952	21.0-14.0-14.0	22.8	14.7	11.7*	103.21
3936	21.0-14.0-14.0	22.0	15.3	14.1	105.60
2476	26.1- 8.7- 8.7	26.6	9.2	9.4	103.45
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	2 -	103.98
GUIER CHEMICAL & FERTILIZER		HOUSTONIA, MO			
2458	21.3-12.2-15.2	22.2	12.1	14.3	100.85
4021	26.0-12.4-16.3	24.5	13.1	18.0	100.11
4018	27.4-13.7-13.7	25.7	15.0	15.2	100.73
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	100.95
RM HART GIN		HOLCOMB, MO			
3807**	11.0- 5.5-25.0	12.2	6.1	23.4	103.45
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.45
HEATH & SON FEED & SUPPLY, INC		AVA, MO			
3206	21.0- 6.0-15.0	23.2	7.9	13.2*	109.28
3208	22.0- 7.0-16.0	23.6	6.2*	14.8	100.54
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	104.70
HEETCO FARM CENTER		LABELLE, MO			
4223	23.0-11.5-19.5	22.0	12.3	22.4	102.82
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.62
HEIMAN INC		ROCKVILLE, MO			
2596	8.0-22.0-28.0	8.8	22.1	28.9	103.07
2716	23.0-13.5-17.5	22.4	15.4	18.9	104.42
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	104.56
HEIMAN AGRI-SERVICES, IN		BUTLER, MO			
3653	16.5-16.5-16.5	18.2	16.7	16.0	104.00
3657	17.0-17.0-17.0	18.8	17.6	16.6	105.18
3658	17.0-17.0-17.0	19.2	17.1	16.2	104.47
4456	21.0-13.0-13.0	22.6	11.4*	13.5	100.62
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	1 -	108.81
HEIMSOOTH AGRI SERVICE INC		CORDER, MO			
4699	3.0-13.5-44.0	2.9	13.7	45.3	101.95
3110	3.5-20.5-36.0	4.5	20.3	37.6	103.81
1804	23.5-22.0-11.0	23.1	23.0	11.6	101.76
1794	29.5-27.0- 0.0	28.7	27.3	0.0	99.12
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	101.50
HELENA CHEMICAL COMPANY		CLARKTON, MO			
3054**	12.0-15.0-25.0	12.5	15.0	26.5	103.16
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.16
HELENA CHEMICAL CO		HAYTI, MO			
2888**	0.0-14.0-35.0	0.0	14.2	35.2	100.95
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.95
HELENA CHEMICAL CO		NEW MADRID, MO			
2787**	29.5- 0.0-17.0	29.2	0.0	17.0	99.21
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.13
HENSON FARM SUPPLY, INC		WILLIAMSVILLE, MO			
2686	17.0-17.0-17.0	18.8	17.8	16.4	105.41
3440	17.0-17.0-17.0	19.2	16.5	17.0	104.00
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.72

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
HILLER CUSTOM SPREADING		HOUSTONIA, MO			
4530	13.0-34.0-15.5	13.4	34.9	15.9	102.74
4319	18.5-17.0-17.0	18.8	17.3	17.1	101.48
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.17
HOFFMAN & REED, INC		TRENTON, MO			
3099	8.0-21.0-32.0	8.6	21.0	33.2	102.67
3691	23.0-11.5-11.5	24.2	12.1	11.0	103.85
3696	24.5- 7.5-11.5	24.8	7.8	11.1	101.06
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.56
HOPKINS SEED & CHEMICAL INC		QULIN, MO			
4134	0.0-14.0-38.0	0.0	14.0	41.0	104.55
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.55
HUMPHREY FEED & SEED		MONTICELLO, MO			
2315	9.0-23.0-30.0	8.4	22.0	32.2	98.94
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.94
INGLIS FARM SUPPLY		BOLIVAR, MO			
2321	7.2-18.4-18.4	6.5	16.2*	17.1	89.80*
2438	17.6-17.6-17.6	17.4	17.4	17.4	98.86
2441	17.8-17.8-17.8	16.9	15.3*	21.1	96.07*
2442	17.8-17.8-17.8	16.9	15.0*	21.5	95.84*
3443	17.8-17.8-17.8	19.0	18.4	15.8*	101.80
2720	23.4-11.7-11.7	18.9*	17.5	17.0	109.65
#TOTALS - NO. SAMPLES		7 - SMPLS	MISBRANDED	5 -	99.18
INMAN FEED STORE		DONIPHAN, MO			
3434	6.0-24.0-24.0	6.2	24.6	23.6	101.43
3439	17.0-17.0-17.0	17.1	16.5	17.4	99.53
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.47
J & K FARM SUPPLY		ST ELIZABETH, MO			
2924	17.0-17.0-17.0	16.2	18.3	20.8	105.65
2962	23.0-11.0-11.0	23.2	12.5	11.6	105.06
3940	23.0-11.0-11.0	24.4	11.3	11.8	105.32
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	105.34
JAMES AGRI CENTER, INC		NEELYVILLE, MO			
4132	0.0-19.5-34.0	0.0	21.4	33.3	104.25
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.25
JAMESPORT ELEVATOR		JAMESPORT, MO			
4168	24.0- 8.0-12.0	24.8	7.7	12.8	102.37
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.37
JAMIESON FERTILIZER & FARMS		BOWLING GREEN, MO			
2291	24.2-16.2-16.0	23.1	14.6	19.4	97.93
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	97.93
JEFFCO FEED & FERTILIZER		DESOTO, MO			
3802	20.0-10.0-10.0	21.0	9.6	17.8	112.86
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	112.86
JOHNSON FEED STORE INC		PIEDMONT, MO			
2328	5.0-13.5-36.0	5.1	13.2	36.9	100.68
2436	17.0-17.0-17.0	18.4	18.0	16.7	105.29
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.16
JONESBURG GRAIN CO		JONESBURG, MO			
3096	8.5-21.3-32.0	7.8	19.7	34.7	97.93
2810	21.9-17.5-17.5	21.1	16.9	19.1	98.75
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.58
JOST FERTILIZER SERVICE, INC		OWENSVILLE, MO			
2307	11.1-22.2-27.8	9.9*	20.9	31.1	98.20
3792	24.7- 9.9-19.8	23.9	10.0	20.9	99.66
3297	26.8- 8.9-17.8	26.7	9.3	18.2	101.12
3788	27.2-13.6-13.6	27.1	13.9	14.3	101.16
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	1 -	100.02

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
KELSO MILLING CO		SCOTT CITY, MO			
3912	6.5- 8.0-23.0	7.7	8.9	22.0	106.15
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	104.40
KEN MO AGRICULTURAL CENTER		KENNETT, MO			
3888	10.5-10.5-32.0	9.0*	10.6	35.6	101.08
3796	17.0- 0.0-34.5	15.4	0.0	38.0	100.44
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	100.77
KENNETT LIQUID FERTILIZER		KENNETT, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.47
KERR GRAIN & SEED, INC		MEMPHIS, MO			
4401	5.0-23.0-34.6	5.5	21.9	35.7	99.89
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.89
KINDER PLANT FOOD		LICKING, MO			
3922	17.8-17.8-17.8	18.1	17.0	17.9	98.99
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.99
KOTTWITZ FERTILIZER		OSCEOLA, MO			
2286	27.0-13.5-13.5	26.5	13.9	14.7	101.06
4503	27.0-13.5-13.5	25.7	13.7	14.1	98.31
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.33
LANGE-STEGMANN COMPANY		ST LOUIS, MO			
3818	9.0-23.0-30.0	9.1	22.9	30.5	100.53
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.53
LEBANON FARM CENTER		LEBANON, MO			
3194	6.0-11.0-24.0	18.0	10.9	23.0	139.31
3199	17.8-17.8-17.8	18.0	19.5	16.9	103.26
3918	17.8-17.8-17.8	17.2	17.3	18.8	98.65
3924	17.8-17.8-17.8	19.0	17.6	16.5	100.79
3956	26.8- 8.7- 8.7	27.6	9.2	7.4*	101.63
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	1 -	106.54
LEETON ELEVATOR		LEETON, MO			
2714	23.0-11.0-11.0	25.2	10.3	10.7	103.42
3789	26.0-13.0-13.0	27.0	14.8	13.7	106.92
1660	28.0-12.0-11.0	28.7	12.9	11.3	103.85
1661	28.0-12.0-11.0	28.8	12.5	11.7	103.63
3784	29.0- 7.0-15.0	28.5	8.6	16.7	104.48
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	104.48
LEGRAND'S FEED & FERTILIZER		POPLAR BLUFF, MO			
4301	3.0-12.5-12.5	3.3	13.6	12.8	107.13
3046	19.0-19.0-19.0	18.4	18.7	21.4	100.63
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.35
LINCOLN COUNTY FARMERS COOP INC		TROY, MO			
2805	23.5-15.6-15.6	23.1	13.0*	17.0	95.10*
3854	24.0-15.0-15.0	24.4	16.3	15.5	104.19
4682	24.0-16.0-16.0	22.9	17.1	17.0	101.04
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	1 -	100.53
LOGANBILL FERTILIZER INC		VERSAILLES, MO			
2943	19.2- 9.2-19.4	20.0	9.0	19.5	101.71
2808	22.0-11.0-22.0	21.5	11.2	24.2	101.82
2809	22.0-11.0-22.0	21.0	11.3	24.9	101.70
2807	22.3-15.0-18.4	21.6	15.3	20.6	101.51
2789	31.0-10.0-10.0	31.0	10.7	11.9	103.59
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	102.08
LOHMAN PRODUCERS EXCHANGE		LOHMAN, MO			
4666	15.5-15.5-15.6	15.7	15.4	15.4	100.00
2942	18.1-12.1-21.2	17.6	12.0	21.5	98.90
2296	20.8- 4.6-30.1	20.0	5.0	31.1	100.25
1722	21.3- 6.7-18.7	21.4	6.3	20.1	101.07
2963	23.0-11.0-11.0	23.3	10.6	11.2	100.00
4015	31.5- 8.4-12.6	30.5	9.2	13.9	100.97
#TOTALS - NO. SAMPLES		7 - SMPLS	MISBRANDED	0 -	100.16

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
LOIDA FARM SERVICE		MCBRIDE, MO			
4432	6.0-26.0-26.0	5.8	25.7	27.3	100.33
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.80
MADISON COUNTY FARM SUPPLY INC		FREDERICKTOWN, MO			
2542	26.5- 8.5-17.5	25.7	11.0	18.3	104.80
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.80
MAITLAND GRAIN & FERTILIZER		MAITLAND, MO			
3113	1.0- 8.0- 8.0	1.9	8.6	9.3	116.54
2332	5.0-28.0-28.0	5.7	26.7	28.9	99.68
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.33
MARSHFIELD MILLS INC		MARSHFIELD, MO			
2699	20.3- 6.7-20.3	20.9	7.1	20.0	102.29
3463	23.4-11.7-11.7	24.6	10.6	11.7	100.24
2730	26.1- 8.7- 8.7	26.4	8.9	8.3	100.77
2733	29.5-12.9- 0.0	30.2	13.6	0.0	103.30
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.65
MCCORD GIN COMPANY		GIDEON, MO			
4028	9.5- 9.5-37.5	9.2	10.7	38.9	104.24
4027	10.0-10.0-39.0	9.4	10.8	39.6	101.27
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.42
MESMER FERTILIZER		BETHEL, MO			
4058	4.0-19.0-38.0	4.1	19.2	40.3	103.45
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.45
METZ GRAIN - HARWOOD		HARWOOD, MO			
2316	9.0-23.0-30.0	9.2	23.5	29.4	100.85
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	99.39
METZ GRAIN - JASPER		METZ, MO			
2300	19.4-19.4-19.4	18.9	20.1	19.2	100.21
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.21
METZ GRAIN		METZ, MO			
4680	25.8-14.7-14.7	23.5*	14.7	17.8	98.43
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	2 -	101.06
METZ GRAIN - SHELDON		SHELDON, MO			
2309	12.0-30.7-20.0	12.3	30.6	19.4	99.81
3661	17.8-17.8-17.8	18.1	17.8	17.1	99.89
3675	21.3-10.6-15.9	20.6	10.8	15.2	97.87
3693	23.3-11.7-11.7	23.8	11.3	11.5	100.00
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	99.65
MFA AGRI SERVICES		ADVANCE, MO			
1885	5.0-18.5-35.0	4.7	19.8	35.2	102.68
2326	6.0-15.5-37.5	6.0	16.1	37.4	101.37
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	103.51
MFA AGRI SERVICES		ALBANY, MO			
3615	0.0-20.5-33.0	0.0	21.2	34.7	104.19
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.33
MFA AGRI SERVICES		ASH GROVE, MO			
4571	0.0-18.3-36.6	0.0	20.4	35.2	103.83
2693	17.8-17.8-17.8	17.7	18.1	18.7	101.46
3662	17.8-17.8-17.8	18.1	18.6	16.8	101.35
2711	22.8- 7.6-15.2	24.0	6.9	16.4	102.89
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.29
MFA AGRI SERVICES		AURORA, MO			
3656	16.9- 8.4-25.3	18.5	8.0	24.0	101.45
2712	22.8- 7.6-15.2	23.7	7.6	16.1	103.55
3699	24.9- 6.2-12.4	25.5	6.4	12.4	102.14
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.38

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES		BENTON, MO			
2882	8.0-21.5-28.0	7.9	20.5	31.8	101.84
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.84
MFA AGRI SERVICES		BERNIE, MO			
3886	5.6-25.0-25.0	5.3	24.6	27.2	100.93
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.34
MFA AGRI SERVICES		BIRCH TREE, MO			
2697	20.0- 6.5-20.0	20.7	6.2	21.2	102.74
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.74
MFA AGRI SERVICES		BOONVILLE, MO			
4534**	6.5-16.6-38.6	5.9	15.4	40.8	98.35
4049**	8.1-20.9-28.3	8.3	21.6	27.2	100.81
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.35
MFA AGRI SERVICES		BROOKFIELD, MO			
2567	18.5-18.5-18.5	17.8	18.2	19.9	99.35
2566	19.0-19.0-19.0	18.4	18.5	20.0	98.74
2564	21.5-10.5-21.5	21.5	11.2	22.3	102.57
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.24
MFA AGRI SERVICES		BROWNING, MO			
3558	5.5-28.0-28.0	5.9	27.9	28.5	101.16
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.76
MFA AGRI SERVICES		BURLINGTON JCT, MO			
2889**	0.0-12.6-40.6	0.0	12.5	41.2	100.61
3041	20.5-29.5- 8.5	20.2	28.7	11.0	100.28
4014	40.0- 9.0- 0.0	41.3	8.5	0.0	101.63
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	101.29
MFA AGRI SERVICES		CABOOL, MO			
2449	19.6- 9.8-19.6	19.2	10.6	20.0	101.53
2948	20.6- 5.1-20.6	21.3	5.6	19.7	102.08
3934	20.6- 5.1-20.6	21.1	5.9	20.8	103.89
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.59
MFA AGRI SERVICES		CALIFORNIA, MO			
2562	22.5-11.2-22.5	21.9	10.4	24.0	98.55
2546	24.3- 9.7-19.4	23.9	9.3	20.1	98.97
3791	24.8-24.7- 8.2	24.0	25.4	8.9	100.47
4840	25.0-10.0-20.0	25.2	9.8	20.0	100.00
2538	27.9-13.4-13.4	27.9	13.6	13.4	100.42
2539	27.8-13.4-13.5	27.8	13.0	13.9	99.58
3779	31.7-10.5-10.5	31.4	10.8	11.2	100.74
4380	40.9- 0.0- 6.9	39.9	0.0	7.9	98.87
#TOTALS - NO. SAMPLES		10 - SMPLS	MISBRANDED	0 -	99.89
MFA AGRI SERVICES		CANTON, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	97.66
MFA AGRI SERVICES		CARTHAGE, MO			
2308	8.7-17.5-35.1	8.5	17.2	35.5	99.31
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.31
MFA AGRI SERVICES		CENTERVIEW, MO			
3435	6.6-26.4-26.5	6.4	25.4	28.8	99.89
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.14
MFA AGRI SERVICES		CENTRALIA, MO			
3557	6.0-28.4-28.4	6.3	29.2	27.7	101.54
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.38
MFA AGRI SERVICES		CHAMOIIS, MO			
2479	30.2- 7.5-15.1	29.4	7.7	15.2	98.78
3031	30.2- 7.5-15.1	29.0	8.6	15.9	100.66
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.00
MFA AGRI SERVICES		CHILLICOTHE, MO			
3039	24.0-16.0-16.0	23.0	14.5	19.6	98.54

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES		CHILLICOTHE, MO			
3033	27.5-13.5-13.5	27.1	12.6	14.8	98.64
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	98.59
MFA AGRI SERVICES		COLE CAMP, MO			
1666**	16.4-16.4-21.8	15.9	17.0	20.8	99.08
1665**	20.1-10.0-20.1	19.3	9.6	20.4	97.38
1658**	39.2- 0.0- 0.0	39.1	0.0	0.0	99.74
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	98.98
MFA AGRI SERVICES		COLUMBIA, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.09
MFA AGRI SERVICES		CONCEPTION JCT, MO			
2883	6.0-19.5-32.4	5.5	18.1	34.2	97.60
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.31
MFA AGRI SERVICES		CROCKER, MO			
2936	17.8-17.8-17.8	18.4	17.5	17.2	100.00
1725	23.0-11.0-11.0	24.1	11.9	11.3	105.44
3947	23.4-11.6-11.6	23.9	11.3	12.0	100.98
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.19
MFA AGRI SERVICES		EL DORADO SPRINGS, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.11
MFA AGRI SERVICES		ELSBERRY, MO			
1884	0.0-26.3-26.4	0.0	27.6	25.8	102.53
4386	24.6-12.3-18.5	21.8*	12.6	22.6	99.02
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	100.85
MFA AGRI SERVICES		ESSEX, MO			
4026	14.5-14.5-29.0	13.5	14.0	32.4	100.46
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.98
MFA AGRI SERVICES		FAIRFAX, MO			
2964	23.0-11.5-11.5	23.2	10.4	13.3	100.00
4166	23.0-11.5-11.5	23.6	10.3*	13.6	101.12
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	99.01
MFA AGRI SERVICES		FARMINGTON, MO			
3545	19.0-19.0-19.0	18.5	19.7	20.3	101.79
3538	27.3-13.6-13.6	27.0	14.4	14.1	101.57
4381	31.6-10.5-10.5	30.3	10.5	12.9	99.79
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	1 -	101.02
MFA AGRI SERVICES		FREEBURG, MO			
3213	22.9- 7.6-15.3	23.1	7.9	15.8	101.97
2474	23.5-11.7-11.7	23.4	11.7	12.4	100.61
1796	27.4-13.7-13.7	26.9	13.8	14.1	99.58
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.85
MFA AGRI SERVICES		FULTON, MO			
2599	5.3-13.6-39.5	5.1	13.5	39.8	99.61
2691	17.7-17.7-17.7	17.1	17.8	19.1	100.45
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.08
MFA AGRI SERVICES		GUILFORD, MO			
3219	24.5-12.0- 8.0	24.9	11.8	10.4	103.46
3226	28.0- 6.5- 6.5	28.0	6.6	7.1	101.06
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.30
MFA AGRI SERVICES		HALE, MO			
3295	40.0- 9.0- 0.0	40.1	10.3	0.0	102.86
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.86
MFA AGRI SERVICES		HANNIBAL, MO			
4052	7.2-18.6-37.0	6.8	17.9	38.6	99.32
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.38
MFA AGRI SERVICES		HIGGINSVILLE, MO			
3542	24.8-13.7-13.7	23.9	14.0	15.3	100.44

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES HIGGINSVILLE, MO					
3543	24.8-13.8-13.8	24.2	14.2	15.1	100.99
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.48
MFA AGRI SERVICES IANTHA, MO					
2303	19.4-12.7-21.0	18.0	13.3	21.5	98.71
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.67
MFA AGRI SERVICES IRWIN, MO					
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.55
MFA AGRI SERVICES JACKSON, MO					
2684	17.0-17.0-17.0	16.0	16.6	20.6	100.94
2563	22.0-11.0-22.0	20.4	10.3	25.8	99.09
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.92
MFA AGRI SERVICES JEFFERSON CITY, MO					
3300	8.5-21.3-31.9	8.2	20.8	33.4	99.89
2287	26.8- 8.9-17.8	26.7	8.6	19.1	100.56
2288	26.0- 9.3-18.6	25.5	9.6	19.7	100.78
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.87
MFA AGRI SERVICES KAHOKA, MO					
4245	4.4-21.1-36.9	4.4	21.4	38.4	102.39
4754**	20.0- 7.5-25.0	18.0	7.8	27.8	99.25
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	99.35
MFA AGRI SERVICES KIRKSVILLE, MO					
3667	19.5- 9.5-19.5	19.7	10.3	19.8	102.97
3668	19.5- 9.5-19.5	19.1	10.0	20.5	101.55
3669	19.5- 9.5-19.5	18.4	9.8	20.0	98.58
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.03
MFA AGRI SERVICES LABELLE, MO					
4300	0.0-29.5-22.2	0.0	29.4	24.0	101.97
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	99.92
MFA AGRI SERVICES LADDONIA, MO					
3535	28.5-10.4-15.2	26.5	11.2	17.3	99.68
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.05
MFA AGRI SERVICES LAPLATA, MO					
2816	17.5-10.0-30.0	15.7*	10.0	33.8	100.24
2815**	18.5-18.5-18.5	17.1	19.1	20.4	100.32
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	100.28
MFA AGRI SERVICES LANCASTER, MO					
4533	7.0-18.5-37.0	6.6	17.9	38.8	99.77
4531	10.0-26.0-26.0	9.6	25.8	28.0	100.82
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.32
MFA AGRI SERVICES LAWSON, MO					
4239	9.0-23.0-30.0	8.9	23.0	30.5	100.32
2689	17.5-17.5-17.5	17.8	16.9	18.8	100.80
2702	21.0-14.0-14.0	21.4	14.4	16.0	104.29
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.73
MFA AGRI SERVICES LEXINGTON, MO					
4755**	13.5-13.4-26.7	13.3	13.8	26.6	100.37
2969	24.5-10.4-10.4	24.3	10.5	10.3	99.63
3532	31.6-10.5-10.5	30.8	11.4	11.4	101.16
3853	31.6-10.5-10.5	31.0	11.3	11.6	101.58
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.74
MFA AGRI SERVICES LOCKWOOD, MO					
2443	17.8-17.8-17.8	17.3	18.1	18.2	100.00
3449	19.6- 9.8-19.6	19.7	8.5*	21.4	99.23
2722	23.4-11.7-11.7	24.5	11.9	11.5	102.93
2725	24.1-16.0-16.0	23.3	15.9	17.6	99.79
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	1 -	100.41

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES LOUISIANA, MO					
3797	19.3-18.6-20.7	18.0	19.0	21.5	98.96
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.52
MFA AGRI SERVICES LOWRY CITY, MO					
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.73
MFA AGRI SERVICES MACON, MO					
2130**	0.0-14.0-40.5	0.0	18.1	35.5*	104.67
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	101.79
MFA AGRI SERVICES MANSFIELD, MO					
3062	17.7-17.7-17.7	18.4	17.5	17.8	101.24
2447	19.5- 9.7-19.5	19.3	9.8	20.6	101.16
2947	20.5- 5.1-20.5	19.9	5.0	22.6	100.98
3670	20.2- 6.7-20.2	20.5	7.3	20.1	102.30
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	102.24
MFA AGRI SERVICES MARSHFIELD, MO					
2694	17.8-17.8-17.8	18.7	18.9	16.2	102.70
3442	17.8-17.8-17.8	18.0	18.6	18.1	102.58
2700	20.3- 6.7-20.3	21.4	7.3	19.1	102.96
4322	20.3- 6.7-20.3	19.8	7.8	21.0	102.56
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.69
MFA AGRI SERVICES MARTINSBURG, MO					
3824	5.3-25.4-31.8	5.2	24.7	31.7	98.18
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	95.17
MFA AGRI SERVICES MARYVILLE, MO					
2325**	6.0-15.0-15.0	5.8	15.4	15.7	101.93
2312**	9.5-24.5-24.5	8.9	23.1	27.2	98.59
2459	22.0-11.0-11.0	22.9	11.3	11.6	103.90
3706	27.5- 6.5- 6.5	29.1	5.2*	7.9	102.68
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	1 -	101.59
MFA AGRI SERVICES MAYSVILLE, MO					
3549	9.5-24.5-27.5	9.6	24.3	28.6	100.94
3216	23.0-11.6-11.7	23.4	12.3	12.4	103.58
3689	23.0-11.5-11.5	24.1	12.6	11.6	105.59
3534	29.5- 9.0-13.5	29.0	8.4	15.7	100.00
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	102.02
MFA AGRI SERVICES MEMPHIS, MO					
4433	0.0-24.9-28.5	0.0	26.1	27.5	101.79
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.19
MFA AGRI SERVICES MEXICO, MO					
2314**	9.1-16.1-32.3	8.7	15.4	33.6	98.91
4672	14.3- 8.6-12.9	14.2	8.7	13.1	100.34
4681	25.4-15.3-15.3	24.8	16.2	15.2	100.52
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	99.73
MFA AGRI SERVICES MILAN, MO					
3816	9.0-23.0-30.0	8.5	22.2	31.9	99.26
4569	11.5-46.0- 0.0	11.1	46.6	0.0	100.35
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.85
MFA AGRI SERVICES MOBERLY, MO					
2428	6.5-25.5-27.5	6.5	25.9	28.6	102.08
3453	20.5-10.0-15.0	21.4	10.1	16.3	104.34
2464	22.5-11.0-11.0	22.3	11.6	12.3	102.69
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.97
MFA AGRI SERVICES MONTGOMERY CITY, MO					
3810	10.3-26.5-26.5	10.6	27.7	24.8	101.30
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.67
MFA AGRI SERVICES MT VERNON, MO					
2709	22.8- 7.6-15.2	24.0	7.1	14.5	100.92
2710	22.8- 7.6-15.2	24.2	7.0	14.2	100.79
3683	22.8- 7.6-15.2	23.3	7.6	14.7	100.66

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES MT VERNON, MO					
3698	24.9- 6.2-12.4	24.4	6.6	13.0	100.54
4332	24.9- 6.2-12.4	23.3	6.9	14.2	100.00
#TOTALS - NO. SAMPLES 7 - SMPLS MISBRANDED 0 - 100.92					
MFA AGRI SERVICES NEOSHO, MO					
2452	20.3- 6.7-20.3	21.6	6.6	18.1*	100.27
2466	22.8- 7.6-15.2	24.1	7.4	14.0	101.32
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 1 - 100.79					
MFA AGRI SERVICES ODESSA, MO					
4053	5.8-27.8-27.8	5.9	26.8	29.7	100.11
2311	10.1-26.0-26.0	9.9	26.1	26.5	100.31
2297	19.5-22.8-16.3	18.2	23.2	16.8	98.71
2967	23.6- 9.8- 9.8	25.3	12.8	6.4*	107.83
4017	29.1-11.6-11.6	29.7	14.1	9.2*	104.09
#TOTALS - NO. SAMPLES 7 - SMPLS MISBRANDED 2 - 101.86					
MFA AGRI SERVICES OWENSVILLE, MO					
3315	11.9-22.3-22.3	12.0	21.8	22.1	98.90
1798	27.2-11.1-16.1	27.0	10.6	17.1	99.57
2537	32.4- 6.4-13.0	31.0	7.3	14.3	100.33
3778	32.6- 8.7-10.8	31.1	10.4	11.6	101.28
#TOTALS - NO. SAMPLES 5 - SMPLS MISBRANDED 0 - 100.04					
MFA AGRI SERVICES OZARK, MO					
2696	19.6- 9.8-19.6	19.9	11.1	19.0	103.32
3928	19.6- 9.8-19.6	22.0	9.2	16.9*	101.15
3948	23.4-11.7-11.7	24.8	14.4	8.7*	106.35
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 3 - 102.41					
MFA AGRI SERVICES PASSAIC, MO					
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 101.47					
MFA AGRI SERVICES PATTONSBURG, MO					
4019	27.0-13.5-13.5	26.7	13.5	14.3	100.21
3533	30.0-11.5-11.5	29.4	11.6	12.1	99.58
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 99.89					
MFA AGRI SERVICES PENDLETON, MO					
2884	0.0-20.5-32.7	0.0	20.4	34.3	101.90
2811	21.5-10.7-21.5	21.1	11.7	22.3	102.33
2801	24.2-16.2-16.1	23.1	18.4	16.0	102.17
2802	24.1-16.1-16.2	21.8*	18.0	17.6	100.62
#TOTALS - NO. SAMPLES 6 - SMPLS MISBRANDED 1 - 101.47					
MFA AGRI SERVICES ROLLA, MO					
3883	6.0-26.2-26.2	6.0	27.5	25.9	102.54
2695	17.8-17.8-17.8	18.1	17.5	18.1	100.34
2698	20.3- 6.2-20.3	21.2	6.8	20.2	103.96
2717	23.4-11.7-11.7	24.5	12.3	11.2	103.54
#TOTALS - NO. SAMPLES 5 - SMPLS MISBRANDED 0 - 102.12					
MFA AGRI SERVICES ST CLAIR, MO					
1797	27.2-10.9-16.3	27.0	10.4	17.2	99.46
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 100.70					
MFA AGRI SERVICES ST JOSEPH, MO					
3103	6.6-31.5-23.6	6.4	29.6	26.6	98.80
2323	7.0-33.0-21.0	6.7	31.8	24.0	100.00
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 0 - 99.79					
MFA AGRI SERVICES ST MARY, MO					
4397	9.0-23.0-30.0	8.6	21.6	33.0	99.36
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 99.84					
MFA AGRI SERVICES STE GENEVIEVE, MO					
3540**	25.0-10.0-15.0	23.7	10.1	19.9	102.94
3541	25.0-10.0-15.0	23.9	10.0	16.8	99.53
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 0 - 99.83					

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES SALEM, MO					
4822**	0.0-11.5-40.7	0.0	12.0	40.3	100.94
2317	9.0-23.0-30.5	8.4	22.7	31.0	98.62
3649	11.2-11.2-33.8	11.0	10.9	34.0	98.98
2444	17.8-17.8-17.8	16.9	17.6	18.9	98.76
4831	17.8-17.8-17.8	17.4	17.9	18.8	100.45
4323	20.3- 6.7-20.3	19.9	6.2	21.7	99.46
3673	21.0-11.0-14.9	21.0	11.9	15.5	103.04
#TOTALS - NO. SAMPLES 7 - SMPLS MISBRANDED 0 - 99.96					
MFA AGRI SERVICES SALISBURY, MO					
2324**	6.8- 9.2-34.2	6.9	8.7	34.0	98.49
4048**	8.4-21.6-29.1	9.7	25.0	25.7*	106.73
3042	20.1-16.1-20.2	17.2*	14.8	24.6	95.68*
3043	20.1-16.1-20.2	18.2	15.0	23.4	96.98*
2047	25.0-11.0-16.0	23.8	10.3	18.8	98.86
3037	25.8-14.9-14.9	23.3*	15.6	18.0	99.48
#TOTALS - NO. SAMPLES 8 - SMPLS MISBRANDED 5 - 99.75					
MFA AGRI SERVICES SEDALIA, MO					
4539**	4.4- 3.3-45.0	4.8	3.6	43.9	100.50
2306**	12.7-16.9-25.3	12.6	15.7	26.6	98.46
4024	18.2-10.9-27.4	17.3	10.5	29.6	99.53
4162	21.7-12.4-12.4	20.7	13.6	13.3	101.61
4022	24.9- 8.3-20.8	22.7*	8.3	24.4	99.08
2046	26.9-13.4-13.4	26.3	13.1	15.2	100.00
#TOTALS - NO. SAMPLES 6 - SMPLS MISBRANDED 1 - 99.81					
MFA AGRI SERVICES SHELBYNA, MO					
1613**	7.0-25.3-26.8	6.9	24.3	28.2	99.12
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 99.22					
MFA AGRI SERVICES SHERIDAN, MO					
4430	10.0-30.0-20.0	9.8	31.8	19.3	102.50
4391	12.0-24.5-24.5	12.2	24.9	24.9	101.64
3790	23.0-18.5-12.0	24.4	18.9	13.4	105.26
4385	27.0-13.5-13.5	26.6	13.8	14.6	100.95
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 0 - 102.58					
MFA AGRI SERVICES SLATER, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.97					
MFA AGRI SERVICES SPRINGFIELD, MO					
2944	19.6- 9.8-19.6	20.3	11.3	18.2	103.83
2956	22.8- 7.6-15.2	23.2	8.4	15.1	103.03
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 0 - 102.58					
MFA AGRI SERVICES STOCKTON, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.22					
MFA AGRI SERVICES TIPTON, MO					
4434	6.0-15.5-41.2	5.9	15.9	41.8	101.43
3808	10.3-26.4-26.4	9.7	25.1	28.9	98.70
3809	10.3-26.4-26.4	10.3	25.9	27.7	100.30
2721	23.4-11.7-11.7	24.5	11.4	12.8	103.30
2732	28.0- 4.5- 4.5	27.5	4.8	4.9	100.00
#TOTALS - NO. SAMPLES 6 - SMPLS MISBRANDED 0 - 100.81					
MFA AGRI SERVICES TRENTON, MO					
2304	19.0-19.0-19.0	18.0	16.6*	22.2	96.21*
2305	19.0-19.0-19.0	18.2	17.9	20.7	97.79
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 1 - 98.01					
MFA AGRI SERVICES VANDALIA, MO					
3531	31.7-10.6-10.6	31.7	10.7	10.7	100.32
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 0 - 100.65					
MFA AGRI SERVICES VERSAILLES, MO					
2818	16.3-18.1-18.1	15.7	18.7	19.1	101.15
2799	26.7- 7.6-19.1	26.1	8.0	19.9	100.46
2798	26.8-13.4-13.4	25.2	14.6	14.6	100.43
2792	27.1-13.3-13.3	26.0	14.1	14.9	101.06

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA AGRI SERVICES		VERSAILLES, MO			
2793	27.1-13.3-13.3	26.3	14.2	14.0	100.96
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.81
MFA AGRI SERVICES		WALKER, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.66
MFA AGRI SERVICES		WASHINGTON, MO			
2734**	20.6- 0.0-20.1	20.7	0.0	21.2	102.12
4457	21.8-10.9-15.2	23.2	11.3	15.9	105.33
4459	25.6- 7.7-10.2	25.8	7.6	10.9	101.17
2540	27.1- 9.0-18.0	26.7	8.8	18.9	99.67
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	101.46
MFA AGRI SERVICES		WENTZVILLE, MO			
4050	7.2-18.5-37.1	7.1	18.5	37.6	100.34
4504	23.4-11.7-11.7	23.9	11.6	12.1	101.47
4499	27.9-13.4-13.4	27.2	13.6	14.7	100.31
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.59
MFA AGRI SERVICES		WHEATON, MO			
3445	17.8-17.8-17.8	16.8	19.5	18.5	102.36
3212	22.8- 7.6-15.2	23.0	8.2	15.6	102.63
4163	22.8- 7.6-15.2	23.9	7.5	14.9	102.24
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.40
MFA AGRI SERVICES		WINDSOR, MO			
4537	5.5-26.0-30.0	5.6	26.1	31.3	101.83
2561**	23.8-13.9-15.4	23.3	14.5	16.0	100.88
2560	23.9-16.0-16.0	22.9	17.4	15.0	99.79
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.53
MFA COOP ASSN #130		RHINELAND, MO			
4388	18.0- 9.0- 9.0	17.4	9.0	9.3	98.57
4023	20.0- 0.0-34.5	19.0	0.0	36.6	100.13
2293	21.0-10.5-21.0	19.7	10.3	22.0	97.62
3140	27.4-13.7-13.7	26.7	14.4	14.6	100.94
4384	27.0-13.5-13.5	27.3	13.6	14.4	101.80
2285	31.7-10.5-10.5	31.1	10.3	11.8	99.68
3030	31.7-10.5-10.5	31.3	11.1	11.1	101.05
#TOTALS - NO. SAMPLES		9 - SMPLS	MISBRANDED	0 -	100.41
MFA EXCHANGE - META		META, MO			
4525	6.6-16.8-39.2	6.2	16.5	40.9	100.35
4524	7.2-18.5-37.0	7.0	19.0	37.1	100.79
3929	19.7- 9.8-19.7	20.9	10.1	19.3	103.30
1724	22.9- 7.7-15.3	23.8	7.8	15.7	103.14
3946	23.4-11.6-11.6	24.6	12.0	11.3	103.55
1662	27.0- 9.1-18.0	27.3	10.1	18.2	103.10
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	102.33
MFA INC - CEDAR CREEK		COLUMBIA, MO			
2644	0.0-26.4-26.4	0.0	26.0	26.2	98.74
4043	10.3-26.4-26.5	10.1	25.9	27.4	99.50
4591	22.1-13.3-13.2	21.6	12.7	15.0	99.52
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.27
MFA PLANT FOODS - CARDWELL COOP		CARDWELL, MO			
2886	0.0-15.0-40.0	0.0	14.2	41.8	100.29
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.29
MID AMERICA ENVIRO AG SERVICES		CONCORDIA, MO			
3317**	4.5-21.3-32.9	5.0	22.3	31.6	102.01
4536	5.5-25.9-30.2	6.0	23.0*	34.1	99.03
4036**	6.7-31.8-19.1	7.9	30.3	20.5	100.83
4587**	7.4- 9.8-34.5	7.6	9.1	35.6	100.15
4155	13.9-17.0-22.2	13.6	17.0	23.8	101.19
2465	22.6-11.3-11.3	23.4	9.7*	12.6	99.62
4169	24.2- 9.7- 9.7	26.5	8.4*	9.2	101.94
#TOTALS - NO. SAMPLES		9 - SMPLS	MISBRANDED	3 -	100.73

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MIDWEST PLANT FOOD & SUPPLY		SPRINGFIELD, MO			
2440	17.8-17.8-17.8	18.3	17.3	17.5	99.66
2953	22.0- 6.5-17.0	23.1	6.4	16.7	102.30
4164	22.8- 7.6-15.2	24.2	7.1	14.4	101.32
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.37
MO VALLEY AGRI SERVICE		ROCK PORT, MO			
2331**	5.0-27.0-27.0	5.5	25.8	29.8	101.54
3221	25.0-13.0- 6.0	25.3	13.3	7.1	102.80
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.66
MONETT FARM SUPPLY		MONETT, MO			
3464	24.9- 6.2-12.4	24.3	5.8	14.4	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
MONROE COUNTY CO-OP AGRI SER.		PARIS, MO			
4594	23.3-11.6-11.6	22.0	13.8	12.5	103.32
3952	24.9- 9.9- 9.9	24.0	10.0	11.7	100.25
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.49
MONTROSE AGRI SERVICE		MONTROSE, MO			
3665	18.0-18.0-18.0	17.7	18.4	18.3	100.56
3708**	19.5- 0.0-19.5	19.8	0.0	21.7	104.79
3678	22.4-11.0-11.0	22.1	11.2	11.9	100.90
3679	22.4-11.0-11.0	22.2	11.1	11.7	100.64
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	101.88
MOREHOUSE AGRI SERVICE		MOREHOUSE, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.48
MRM AG SERVICE INC		EAST PRAIRIE, MO			
3002**	33.0- 0.0- 0.0	32.5	0.0	0.0	98.48
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.58
MYRTLE FERTILIZER INC		MYRTLE, MO			
2432	15.0-10.0-10.0	15.4	9.3	11.0	100.67
2455	21.0-14.0-14.0	21.0	14.0	15.1	101.31
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.04
NODAWAY FERTILIZER & GRAIN INC		RAVENWOOD, MO			
3825	4.5-24.0-28.0	5.6	25.4	31.4	109.88
3560	5.0-26.0-26.0	5.8	26.7	29.9	107.84
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	108.84
NODAWAY-HOLT FERTILIZER INC		SKIDMORE, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.05
NORTHEAST MO COOPERATIVE SERV INC		EDINA, MO			
4158	19.0- 9.0-19.0	18.1	9.1	21.6	101.33
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.33
NORTHWEST FERTILIZER, INC		MOUND CITY, MO			
3823**	5.5-26.0-26.0	5.5	25.0	27.7	99.66
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.66
OLD MILL GRAIN & SEED CO		HARRISONVILLE, MO			
3298	25.3-12.6-12.6	25.6	12.6	13.6	101.81
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.81
OLEAN SEED - FERTILIZER CO		OLEAN, MO			
4630	8.5-21.5-32.5	8.1	21.2	33.6	99.68
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.68
ORRICK FARM SERVICE, INC		ORRICK, MO			
3107	5.0-25.5-25.5	5.6	26.0	27.1	104.39
3822	5.8-27.8-27.8	6.0	28.3	28.1	101.79
2800	26.0-11.0-15.0	25.8	11.2	16.3	101.46
3785	29.0-11.0-11.0	30.1	10.6	10.4	100.88
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.10

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
PARIS FEED & SUPPLY LLC		PARIS, MO			
4802	18.1-14.5-16.7	18.5	15.0	17.5	103.17
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	99.54
PILOT GROVE COOPERATIVE ELEVATOR		PILOT GROVE, MO			
1667	4.0-11.0-46.5	3.7	9.1*	49.4	98.04
4051	7.2-18.5-37.0	7.4	18.8	36.9	101.02
4046	9.0-23.0-31.0	9.1	22.6	32.0	100.42
4157	14.8-19.8-19.8	15.0	19.8	18.8	99.33
1664	24.0-16.0-16.0	24.6	15.7	16.3	100.94
1726**	26.5-16.0- 0.0	28.3	14.8	0.0	101.41
#TOTALS - NO. SAMPLES		10 - SMPLS	MISBRANDED	1 -	101.67
PRAIRIE HOME COOP		PRAIRIE HOME, MO			
2803	24.0-10.0-20.0	23.9	11.3	21.1	103.98
3783	29.5-11.5-11.5	27.9	12.0	15.1	101.50
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.69
PRAIRIE VU INC		BETHANY, MO			
3111	3.0-17.0-40.0	3.8	17.8	40.9	105.13
3112	3.0-17.0-40.0	3.9	18.3	39.7	105.13
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	105.13
PRODUCE EXCHANGE		GOLDEN CITY, MO			
4813	4.5-21.6-36.1	4.6	20.7	37.0	99.21
2292	22.4-11.2-22.4	21.6	11.8	23.4	100.67
2633	27.4-13.7-13.7	26.3	14.6	14.9	100.83
3537	27.4-13.7-13.7	27.2	14.2	13.8	100.73
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	99.97
PRODUCERS GRAIN CO		BRONAUGH, MO			
2439	17.8-17.7-17.8	19.4	16.1	16.9	98.99
3660	17.8-17.8-17.8	17.8	18.7	17.5	101.69
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.33
PRODUCERS GRAIN CO.-ELDORADO SPRGS		ELDORADO SPRINGS, MO			
3437	15.9-15.9-22.4	16.4	15.5	23.1	101.05
4588	20.9-12.9-12.6	20.6	13.6	12.2	100.50
3462	23.4-11.7-11.7	23.7	11.7	11.6	100.61
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.72
PRODUCERS GRAIN COMPANY-WALKER EL DORADO SPRINGS, MO					
3913**	8.6-14.2-34.2	9.0	14.4	32.2	99.00
4596	23.4-11.7-11.7	23.2	11.8	12.4	100.61
1803	24.4-17.7-14.4	24.0	17.0	14.7	98.07
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.15
PROFESSIONAL AG SERVICE, INC		LATHROP, MO			
3561	4.5-12.0-12.0	4.9	13.0	12.9	108.22
4237	12.0-30.5-20.5	11.2	29.0	22.4	97.44
3705	27.0-10.5- 6.0	27.3	11.1	7.3	103.83
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	101.73
PROFFITT-WAY FERTILIZER		POTTERSVILLE, MO			
3921	17.8-17.8-17.8	19.6	17.1	15.7*	100.11
3939	22.0-13.2-13.2	24.2	12.3	11.5*	101.08
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	2 -	100.57
PURDY FARM CENTER INC		PURDY, MO			
3685	23.0- 7.5-15.0	23.4	7.7	14.8	101.32
2971	25.0- 6.0-11.0	25.8	6.2	11.2	103.01
2973	26.0- 8.6- 8.6	26.9	8.1	8.3	100.64
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.63
QMI FERTILIZER & GRAIN, INC		PARMA, MO			
3052**	15.5-12.0-25.0	15.8	13.1	25.2	103.75
3048**	18.0- 0.0-25.0	18.6	0.0	23.8	100.00
4387**	19.0-14.0-18.0	18.4	15.3	17.6	101.19
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.77
QUINN FARM SUPPLY, INC		MONROE CITY, MO			
4570	0.0-22.5-30.5	0.0	24.2	31.3	105.56

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
QUINN FARM SUPPLY, INC		MONROE CITY, MO			
3202	19.0-13.0-17.0	20.5	12.3	17.4	102.47
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.96
RALPHIE'S FARM PRODUCTS-FERTILIZER		DIXON, MO			
3926	17.9-17.9-17.9	18.1	18.3	17.5	100.89
2960	23.0-11.0-11.0	23.1	11.9	12.4	104.30
2961	23.0-11.0-11.0	23.3	11.8	11.7	103.67
3945	23.3-11.7-11.7	24.4	11.6	11.1	101.71
3950	23.5-11.7-11.7	24.4	11.6	11.4	101.58
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	102.38
RAY CARROLL COUNTY GRAIN GROWERS		BRUNSWICK, MO			
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.75
RAY-CARROLL COUNTY GRAIN GROWERS		NORBORNE, MO			
2310**	10.8-27.9-23.0	9.7*	24.9*	26.3	95.12*
2045	29.8-11.9-11.9	25.5*	16.4	15.3	103.99
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	3 -	98.40
RAY-CARROLL COUNTY GRAIN GROWERS		CARROLLTON, MO			
3819**	7.3-19.0-21.1	7.1	18.6	22.3	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
RAY-CARROLL COUNTY GRAIN GROWERS		HARDIN, MO			
3811	9.5-23.8-29.8	9.0	23.5	31.5	100.10
3812	9.5-23.8-29.8	9.2	23.7	31.1	100.52
2972	25.6- 7.7-10.2	24.5	7.6	11.5	98.57
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.56
RAY-CARROLL COUNTY GRAIN GROWERS		MAYVIEW, MO			
3555	6.2-28.2-28.2	6.4	29.0	27.7	101.55
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.55
RAY-CARROLL COUNTY GRAIN GROWERS		SUMNER, MO			
2471	23.0-11.5-11.5	23.4	11.8	11.9	102.24
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.24
RICHARDS BROTHERS		MOUNTAIN GROVE, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.48
RICHARDS BROTHERS OF MTN VIEW IN		MOUNTAIN VIEW, MO			
3919	17.8-17.8-17.8	19.0	17.9	16.4	101.35
3920	17.8-17.8-17.8	18.4	16.7	18.2	99.33
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.33
RICHARDS BROTHERS OF WEST PLAINS		WEST PLAINS, MO			
2457	21.0-14.0-14.0	21.3	16.2	13.3	105.12
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	105.12
RICHLAND PLANT FOOD SERVICES INC		RICHLAND, MO			
3916	15.0-20.0-20.0	15.9	20.2	21.0	103.56
2927	17.6-17.6-17.6	16.9	17.5	19.8	100.68
3941	23.0-11.5-11.5	23.4	12.4	11.4	103.11
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.43
RICKETT'S FARM SERVICE		SHELBYNA, MO			
4020**	26.0-12.0-13.0	25.1	11.8	15.5	100.34
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.34
RIVER VALLEY AG		HOPKINS, MO			
3109	4.0-19.0-38.0	4.1	19.1	39.2	101.90
3196	16.5-16.5-16.5	17.1	17.5	17.7	105.33
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	107.66
ROLWING-MOXLEY CO		CHARLESTON, MO			
3098**	8.0-20.5-27.0	8.0	20.4	28.5	101.55
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.50
W.A. ROOTES AND CO		TEBBETTS, MO			
2541	27.0-13.5-13.5	25.6	13.9	16.3	100.85
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.85

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
J.P. ROSS COTTON CO, INC		ESSEX, MO			
2822**	13.5-13.5-23.5	13.2	13.4	25.6	101.68
4224**	17.5-11.5-21.0	17.1	11.6	22.5	101.14
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	105.36
J.P. ROSS COTTON CO, INC-FRISCO		ESSEX, MO			
2820**	15.0- 8.0-24.5	15.4	7.4	25.4	100.71
2812**	21.0- 5.5-23.0	21.3	5.7	23.2	101.58
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.16
ROYSTER-CLARK AGRIBUSINESS, I		BOWLING GREEN, MO			
3554	7.0-19.0-26.0	7.6	19.8	25.3	102.69
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.25
ROYSTER-CLARK AGRIBUSINESS, INC		CLARENCE, MO			
4801	11.0-19.0-30.0	11.4	18.7	29.9	100.11
4295**	12.0-21.0-19.0	12.1	20.2	21.0	100.71
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.14
RUTHERFORD SEED CO, INC		CAIRO, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.80
SALISBURY AG CENTER		SALISBURY, MO			
3108	4.1-11.0-46.0	4.8	12.0	46.3	104.86
3821**	7.0-18.5-33.8	7.1	18.0	35.5	101.06
3097**	8.3-22.0-29.5	9.0	22.6	30.5	104.00
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	103.78
SCHAEPERKOETTER STORE, INC		MT STERLING, MO			
4761	9.0-23.0-30.0	8.5	22.1	32.0	99.15
2433	15.0-15.0-15.0	15.0	13.8	26.1	111.60
3218	24.0- 8.0-12.0	24.6	4.0*	13.3	92.76*
3782	30.0- 7.0-15.0	31.3	6.7	14.5	101.69
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	1 -	103.70
SCHAFFER FERTILIZER, INC		MARTINSBURG, MO			
1610	23.2-15.3-15.3	23.8	15.4	16.1	102.38
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.96
SCHAFFER PLANT FOOD LLC		SALEM, MO			
3654	16.5-17.0-17.0	15.6	17.9	20.0	103.57
3659	17.5-17.8-17.8	16.3	18.0	20.3	100.57
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.03
SCHLEMMER FARM SERVICE INC		LADDONIA, MO			
3438	17.0-13.0-26.0	16.9	13.5	26.3	101.28
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.13
SERVICE AND SUPPLY COOPERATIVE, INC		BELLFLOWER, MO			
3499	12.5-12.5-15.6	12.8	12.8	15.4	101.52
2806	23.0-14.0-18.5	20.9*	13.2	23.3	98.92
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	100.00
SERVICE AND SUPPLY COOP, INC		BOWLING GREEN, MO			
3316	5.0-25.8-30.2	5.5	25.1	31.7	101.20
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.80
SERVICE AND SUPPLY COOPERATIVE, INC		NEW FLORENCE, MO			
3546	17.4-12.9-26.3	17.3	12.6	28.6	101.73
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.73
SERVICE AND SUPPLY COOPERATIVE, INC		VANDALIA, MO			
3800**	5.4-21.9-32.9	5.4	22.0	33.2	100.57
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.41
SHAWNEETOWN FEED & SEED CO.		JACKSON, MO			
3106	5.0-13.5-40.0	5.4	13.9	40.8	103.12
2954	22.0-13.0-13.0	21.2	13.6	14.8	101.69
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.73

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
SMITH BROS. FARM SUPPLY, INC.		WILLIAMSTOWN, MO			
4246**	4.2-18.9-33.5	5.6	21.8	33.0	110.16
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	107.49
SMITH BROS. FARM SUPPLY, INC		WYACONDA, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	95.25
SMITH FARM		COLUMBIA, MO			
4159	19.5-10.2-18.0	20.4	10.4	19.1	104.26
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.26
SOUTHEAST COOPERATIVE SERVICE CO		ADVANCE, MO			
3057	10.5-21.0-28.5	10.4	20.6	30.6	101.20
3035	27.0-13.5-13.5	26.6	11.9*	16.5	98.94
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	100.66
SOUTHEAST COOPERATIVE SERVICE CO		DEXTER, MO			
2819**	16.0-12.0-24.5	16.0	11.6	26.6	101.61
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.77
SOUTHEAST COOP SERVICE CO-MESSLER		ADVANCE, MO			
3036	26.0-12.0-15.5	24.6	14.4	16.9	103.72
3032	28.0-10.5-14.0	26.6	12.6	15.7	103.41
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.86
SOUTHEAST COOPERATIVE SERVICE CO		MOREHOUSE, MO			
3091	10.0-26.0-25.5	10.8	26.5	25.3	102.46
3056**	11.0-18.0-23.5	12.2	18.2	22.9	102.70
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.56
SOUTHEAST COOPERATIVE SERVICE CO		PUXICO, MO			
4029	8.5-17.0-34.5	8.8	18.1	35.4	104.33
4016	31.0-10.0-10.0	30.3	10.9	11.9	102.50
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	105.41
ST CHARLES COUNTY COOPERATIVE CO		ST CHARLES, MO			
3884	6.5-26.0-26.0	6.0	25.4	27.8	99.56
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	100.05
ST JOSEPH AGRI SERVICES, INC		ST JOSEPH, MO			
2950	21.0-12.5-12.5	20.6	12.9	12.9	100.50
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.50
STOCKMAN FEED & FERTILIZER		JEFFERSON CITY, MO			
2804	24.0-16.0-16.0	23.6	18.6	14.3*	102.81
2289	25.0-15.0-15.0	25.0	14.0	15.6	98.53
2290	25.0-15.0-15.0	26.0	12.0*	16.8	97.68
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	2 -	99.68
STODDARD COUNTY FERTILIZER		BLOOMFIELD, MO			
2597	7.0-18.0-36.0	8.2	21.7	32.0*	106.74
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	106.74
STOKES-MAYBERRY GIN CO, INC		MALDEN, MO			
2817	17.0-10.0-27.0	17.0	10.6	28.9	103.83
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.83
STOVER MILLING CO, INC		STOVER, MO			
2814	20.5-15.0-20.5	19.2	15.5	23.0	100.98
2794	27.0- 9.0-18.0	24.6*	9.7	21.0	99.56
2795	27.0- 9.0-18.0	24.6*	9.6	21.2	99.56
2797	27.0-13.5-13.5	24.2*	15.1	16.8	100.95
2790	29.0-11.5-11.5	27.7	12.8	14.0	102.70
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	3 -	100.76
STRAATMANN FEED & TRANSFER, INC		LABADIE, MO			
3169	0.0- 9.5-48.5	0.0	10.3	48.3	102.07
2548	24.0-12.0-18.0	24.2	12.2	18.7	101.67
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.23
SUMMERS FARM CENTER, INC		HUNNEWELL, MO			
4326	21.0-14.0-14.0	21.0	14.3	14.2	100.95

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
SUMMERS FARM CENTER, INC		HUNNEWELL, MO			
3038	24.0-16.0-16.0	23.2	16.6	16.5	100.10
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.72
SUPERIOR CROP CARE FERTILIZER		CAPE GIRARDEAU, MO			
2920	13.0-14.0-23.0	13.4	14.6	23.1	102.73
2949	21.0- 7.0- 9.0	23.4	6.5	9.6	106.77
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	104.32
SUR-GRO PLANT FOOD		APPLETON CITY, MO			
2322	7.2-18.5-37.1	7.0	18.3	37.0	98.98
4324	20.9-14.6-14.6	21.3	14.1	14.8	100.00
4325	20.9-14.6-14.6	20.9	14.3	15.4	100.23
4328	21.3-14.2-14.2	21.4	14.2	14.6	100.70
2473	23.5-11.7-11.7	24.6	11.1	11.3	100.73
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.11
SUR-GRO PLANT FOOD		BURLINGTON JCT, MO			
2446	18.0-18.0-18.0	17.4	16.9	20.0	98.44
4167	23.5-11.5-11.5	23.2	12.4	12.5	102.70
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.46
SUR-GRO PLANT FOOD		COWGILL, MO			
4803	19.0-14.5-14.5	20.8	13.4	16.3	103.93
2966	23.5-11.5-11.5	23.4	11.0	13.6	101.10
3953	25.0-10.0-10.0	24.6	10.9	12.0	103.75
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.92
SUR-GRO PLANT FOOD		FOREST CITY, MO			
3223	25.5-13.5- 6.5	25.6	14.8	7.9	104.97
3227	28.5-16.5- 0.0	29.1	16.2	0.0	100.67
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.12
SUR-GRO PLANT FOOD		KING CITY, MO			
3092	10.0-26.0-26.0	10.3	25.9	24.8	99.18
2434	15.0-18.5-22.5	14.4	19.1	22.6	100.11
4333	25.0-10.0-10.0	25.9	10.1	9.4	101.75
4334	26.0- 9.0- 9.0	26.4	8.8	9.0	100.51
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.31
SUR-GRO PLANT FOOD		OSBORN, MO			
3690	23.0-11.5-11.5	25.4	10.4	11.0	102.61
4330	23.0-11.5-11.5	23.2	12.3	12.4	103.60
3704	26.5-10.0- 6.5	28.7	7.8*	5.6*	98.87
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	101.70
SUR-GRO PLANT FOOD		PLATTSBURG, MO			
3677	22.0-13.0-13.0	22.6	13.1	14.0	102.89
3695	23.5-11.5-11.5	24.7	11.7	11.7	103.68
3697	24.5-10.5-10.5	25.2	10.7	11.1	102.98
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.31
SUR-GRO PLANT FOOD		SAVANNAH, MO			
3220	25.0-10.0-10.0	25.4	10.6	10.2	102.75
3954**	26.0-10.0- 6.5	26.6	10.1	6.8	102.17
3224	26.5-11.0- 6.5	27.6	11.4	6.9	104.17
4461	28.0- 7.0- 7.0	28.5	6.9	7.4	101.56
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.68
SUR-GRO PLANT FOOD		SHERIDAN, MO			
1668	0.0- 5.8-17.0	0.0	5.4	17.8	100.00
2333	4.0-10.5-14.0	3.9	9.9	15.2	99.53
2731	26.5- 8.5- 8.5	26.7	7.7	9.3	99.49
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.76
SUR-GRO PLANT FOOD		WESTON, MO			
3917	17.0-17.0-17.0	16.5	15.8	18.8	98.12
2729	25.0-10.0-10.0	25.2	10.1	10.3	101.13
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.57

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
SUR-GRO PLANT FOOD		WINSTON, MO			
3674	21.0-12.0-18.0	20.1	13.4	17.2	100.24
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.24
T & R SOIL SERVICE		CHILLICOTHE, MO			
4431	0.0-29.0-21.5	0.0	29.6	23.1	103.52
3222	25.5- 8.5- 8.5	26.0	9.2	9.0	103.79
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	103.65
T AND N, INC		FORISTELL, MO			
2791	27.5-13.7-13.7	26.3	13.8	14.8	98.86
4498	27.9-13.3-13.4	27.4	13.5	14.2	100.21
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	98.43
TARWATER AG & HOME SUPPLY		CARTHAGE, MO			
2301	19.4-19.3-19.3	18.3	19.2	20.0	98.24
4327	21.8-10.9-14.6	23.1	11.0	13.7	102.38
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.11
TERRA INDUSTRIES		RICH HILL, MO			
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.12
TERRA INTERNATIONAL		SIKESTON, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	102.85
TERRA INTERNATIONAL (PORTAGEVILLE)		PORTAGEVILLE, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	97.97
TERRA INTERNATIONAL (BALLARD)		URICH, MO			
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.66
THAYER PLANT FOOD		THAYER, MO			
2437	17.0-17.0-17.0	18.0	17.9	17.9	105.53
2454	21.0-13.5-13.5	22.0	14.3	13.7	104.61
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	108.32
TRI COUNTY FEED & FERT. INC		ST MARY, MO			
4402**	2.0- 5.5-17.0	2.2	5.5	16.5	99.69
4400**	3.1- 8.0-24.0	3.2	8.1	23.6	100.00
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	98.98
TRUESDELL BROS GRAIN, INC		CLARK, MO			
2923	17.0-17.0-17.0	17.5	17.5	18.6	104.24
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	104.24
TYREE'S FERTILIZER INC		WEST PLAINS, MO			
2938	17.8-17.8-17.8	17.9	18.5	17.6	101.57
3935	21.0-14.0-14.0	21.8	13.9	14.0	101.67
2469	23.0-11.0-11.0	23.7	11.2	12.7	104.43
2470	23.0-11.0-11.0	23.7	11.5	11.8	104.05
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	102.87
UAP/RICHTER		BOWLING GREEN, MO			
3529	39.1-11.2- 0.0	38.6	11.4	0.0	99.40
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	1 -	97.72
UAP/RICHTER		KAHOKA, MO			
4398	7.0-18.0-36.0	7.0	18.4	36.8	101.86
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.86
UNITED COOPERATIVES INC		PLATTSBURG, MO			
3552	8.0-22.0-31.0	8.6	21.7	32.2	101.98
3550	9.5-26.0-26.0	9.8	24.6	28.5	100.31
2703	21.0-14.0-14.0	21.6	14.1	14.5	102.26
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.47
UNITED COOPERATIVES INC		OSBORN, MO			
3614	0.0-25.0-26.0	0.0	25.9	26.7	103.29
4589	21.0-13.0-13.0	20.3	14.2	14.8	103.46
3701	26.0- 8.0- 8.0	25.3	9.1	9.8	103.42
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	1 -	102.20

BULK BLEND FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
UNITED COOPERATIVES INC		SAVANNAH, MO			
3407	0.0-20.5-36.0	0.0	19.0	38.6	99.48
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.48
V-MAR FARM STORE INC		CRANE, MO			
3204	19.6- 9.8-19.6	20.9	10.2	19.3	103.95
3209	22.0- 7.0-17.5	22.8	8.0	17.3	104.50
3210	22.0- 7.0-17.5	23.3	6.8	16.8	101.99
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	103.48
VANDUSER GIN CO INC		VANDUSER, MO			
3652**	15.0-12.0-23.0	16.6	12.9	21.7	104.81
3707	17.0- 0.0-30.0	18.1	0.0	30.6	104.38
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	104.86
VEST FERTILIZER LIME & SEED		BOLIVAR, MO			
2327	5.1-13.0-39.0	5.5	13.8	43.6	109.31
2569	17.0-17.0-17.0	18.4	19.9	20.1	113.76
2547	24.1-24.1- 9.6	23.4	23.9	10.8	99.43
2544	25.0- 8.0-17.0	25.5	10.2	19.4	109.40
2545	25.0- 8.0-17.0	25.1	8.5	19.4	104.34
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	106.82
VEULEMANS ELEVATOR INC		OTTERVILLE, MO			
4395	9.0-23.0-30.0	9.0	22.7	31.2	100.64
4396	9.0-23.0-30.0	8.6	22.6	31.8	100.21
4696	10.0-25.5-26.5	10.3	26.6	25.8	102.15
2568	17.5-17.5-17.5	17.4	17.9	18.1	101.37
1611	21.5-17.5-17.5	21.0	19.6	17.9	103.77
3793	24.0-14.5-16.5	23.8	14.5	18.0	101.18
2549	24.0-16.0-16.0	23.8	16.2	16.5	100.52
1608	27.0-13.5-13.5	26.2	14.3	14.3	100.85
3780	31.0-16.0- 6.0	30.5	16.7	7.4	101.80
2536	36.0- 7.0- 7.0	35.9	7.1	8.1	101.18
#TOTALS - NO. SAMPLES		12 - SMPLS	MISBRANDED	0 -	101.47
WAKE FEED & FERTILIZER, INC		WILLOW SPRINGS, MO			
3090	11.1-28.4-23.6	11.7	28.4	23.2	100.78
2932	17.8-17.8-17.8	18.4	17.7	17.6	100.90
2933	17.8-17.8-17.8	18.3	18.9	17.4	103.15
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.56
WEST CENTRAL AGRISERVICES, LLC		ADRIAN, MO			
4243	5.4-25.5-30.6	5.6	25.7	31.0	101.30
4244	5.4-25.5-30.6	7.1	27.1	27.1*	103.35
2445	17.9-17.9-17.9	17.5	17.7	19.0	99.89
2302	19.4-16.6-22.1	19.0	15.7	23.0	98.19
4321	20.1-16.1-12.0	20.7	13.6*	12.7	96.33*
4171	29.8- 9.3- 0.0	30.7	9.4	0.0	102.56
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	2 -	100.26
WEST CENTRAL AGRISERVICES, LLC		BUTLER, MO			
2429	8.4-21.4-28.5	8.4	21.5	28.5	100.23
3651	14.3-21.5-21.5	14.0	22.4	21.6	101.40
3655	16.7-22.3-16.7	16.7	23.0	16.6	101.37
3663	17.8-17.8-17.8	17.4	19.1	17.6	101.80
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.20
WEST CENTRAL AGRISERVICES, LLC		CENTERVIEW, MO			
2477	28.6- 5.3- 5.4	29.0	5.7	5.9	102.87
2478	28.6- 5.3- 5.4	28.7	5.5	6.3	102.05
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.45
WEST LIME & FERTILIZER CO		STEELEVILLE, MO			
4240	8.0-20.4-34.0	7.7	19.7	35.2	99.12
2690	17.5-17.5-17.5	18.4	18.3	17.8	104.23
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.62
WEST CENTRAL AGRISERVICES, LLC		CHILHOWEE, MO			
2543	25.4-15.3-15.3	22.5*	17.1	17.6	100.10
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	100.10

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
WEST CENTRAL AGRISERVICES, LLC		HARRISONVILLE, MO			
2921	15.3-15.3-23.1	15.5	15.0	24.7	101.66
2450	20.0- 8.0-20.0	18.9	7.8	22.4	99.74
3142	20.0- 8.0-20.0	20.3	8.2	19.5	100.66
3143	20.0- 8.0-20.0	19.5	9.0	20.7	102.24
3144	20.0- 8.0-20.0	20.2	7.9	19.8	100.00
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	100.87
WEST CENTRAL AGRISERVICES, L		PLEASANT HILL, MO			
4041**	12.4-31.8-15.9	13.0	31.8	15.6	100.86
4042**	12.4-31.8-15.9	13.2	32.7	15.0	102.40
2968**	23.7- 9.4- 9.4	23.4	9.7	9.9	100.66
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.37
WHITE OAK GRAIN & SEED CO INC		WHITE OAK, MO			
2823	7.0-13.0-40.0	6.4	13.4	41.1	100.88
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.88
YOUNG ENTERPRISES, INC		NEW HARTFORD, MO			
3095	9.0-23.0-31.0	8.9	22.6	32.0	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
YOUNG'S PRODUCE, INC		ALTON, MO			
2453	21.0-13.5-13.5	21.2	13.9	15.1	103.39
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.39
YUNGBERG AGRI SERVICE		PRINCETON, MO			
3460	23.0-11.5-11.5	24.2	10.9	11.8	101.86
3465	25.0-10.0- 9.5	25.6	10.1	10.0	102.39
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.12
LOWRY CITY FARMERS EXCHANGE		LOWRY CITY, MO			
2320	8.5-21.9-28.6	8.4	20.0	28.8	95.75*
4532	9.0-23.0-30.0	9.3	23.8	29.4	101.70
3676	21.9-13.1-13.1	21.7	14.4	12.8	102.29
4590	21.1-14.0-14.0	21.0	14.5	14.6	101.66
2472	23.3-11.6-11.6	24.1	11.3	11.4	100.98
3692	23.3-11.6-11.6	24.3	13.0	10.4*	104.42
4501	27.2-13.6-13.6	27.0	14.4	14.3	102.00
#TOTALS - NO. SAMPLES		7 - SMPLS	MISBRANDED	2 -	101.21
R & M FEED		POTOSI, MO			
4399	6.5-16.0-33.0	6.4	16.2	35.3	103.21
3050	18.0-18.0-18.0	18.2	20.5	19.8	108.00
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	105.77
PRODUCERS GRAIN CO		EL DORADO SPRINGS, MO			
1721	16.6-16.6-16.6	17.1	18.6	15.4	104.58
1723	21.3-10.7-16.1	22.2	12.4	14.6	104.62
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	104.59

* Subject to penalty (either 10% or two units deficient from guarantee in nutrient indicated, or 3% deficient in total value).

** Sample analyzed for guaranteed secondary or micronutrients, the results are tabulated beginning page 39.

Totals from July 1, 1999.

LIQUID FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AG DISTRIBUTORS DEERING, MO					
4741**	28.0- 0.0- 0.0	31.4	0.0	0.0	112.14
4371	32.0- 0.0- 0.0	32.1	0.0	0.0	100.31
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 105.83					
AG DISTRIBUTORS INC NASHVILLE, TN					
4372	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.94					
AG DISTRIBUTORS KENNETT, MO					
2764**	3.0- 6.0-12.0	3.4	5.5	11.9	99.00
4360	6.0- 6.0-12.0	6.4	5.2*	11.8	97.22
4361	10.0- 5.0-10.0	7.7*	5.5	9.5	89.75*
2765**	10.0- 6.0-10.0	9.7	5.0*	10.0	93.81*
3266**	28.0- 0.0- 0.0	24.0*	0.0	0.0	85.71*
4365**	28.0- 0.0- 0.0	28.2	0.0	0.0	100.71
4737	28.0- 0.0- 0.0	13.9*	0.0	0.0	49.64*
4740	28.0- 0.0- 0.0	26.1	0.0	0.0	93.21*
4370	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES 9 - SMPLS MISBRANDED 6 - 89.08					
AG DISTRIBUTORS MALDEN, MO					
3497	5.0- 9.0-27.0	6.6	9.5	22.8*	100.00
2774	32.0- 0.0- 0.0	29.5*	0.0	0.0	92.19*
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 2 - 95.79					
AGRI-GRO MARKETING, INC. DONIPHAN, MO					
2015**	0.0- 0.0- 0.0	0.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.00					
AGRISERVICES OF BRUNSWICK, LLC BRUNSWICK, MO					
3260	2.0- 6.0-12.0	2.1	6.2	11.7	101.07
4477	2.0- 6.0-12.0	2.4	5.6	12.2	100.71
3749**	4.4- 8.7- 8.7	4.5	9.4	8.7	104.58
3753	4.0-10.0-10.0	4.1	10.1	10.0	101.05
4205	4.0-10.0-10.0	3.8	10.0	10.3	99.74
4206	4.0-10.0-10.0	4.1	9.8	10.1	99.74
4479	4.0-10.0-10.0	3.9	9.9	10.3	99.74
3736	10.0-30.0- 0.0	10.5	29.7	0.0	100.50
3997	10.0-34.0- 0.0	10.6	33.1	0.0	99.32
3747**	22.1- 4.1- 6.9	22.5	4.6	7.1	103.37
2767	28.0- 0.0- 0.0	27.6	0.0	0.0	98.57
3757**	28.8- 0.0- 0.0	28.2	0.0	0.0	97.92
3268	32.0- 0.0- 0.0	32.4	0.0	0.0	101.25
3759	32.0- 0.0- 0.0	31.4	0.0	0.0	98.13
3760	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44
4003	32.0- 0.0- 0.0	30.2	0.0	0.0	94.38*
4210	32.0- 0.0- 0.0	29.6*	0.0	0.0	92.50*
4483	32.0- 0.0- 0.0	31.0	0.0	0.0	96.88*
4608	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44
2280	46.0- 0.0- 0.0	46.4	0.0	0.0	100.87
#TOTALS - NO. SAMPLES 21 - SMPLS MISBRANDED 4 - 99.17					
AGRISERVICES OF BRUNSWICK, LLC BRUNSWICK, MO					
4211	32.0- 0.0- 0.0	31.4	0.0	0.0	98.13
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 98.13					
AGRO DISTRIBUTION LLC PORTAGEVILLE, MO					
4736	23.0- 3.0- 3.0	23.0	3.0	3.1	100.18
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.18					
AGRO DISTRIBUTION, LLC SIKESTON, MO					
4485	32.0- 0.0- 0.0	31.7	0.0	0.0	99.06
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 99.06					
ANNADA ELEVATOR CO, INC ANNADA, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 102.51					
ARNETT AGRI SERVICE LA MONTE, MO					
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 1 - 35.62					

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
AUDRAIN COOPERATIVE ASSN-CENTRALIA THOMPSON, MO					
3976	3.0- 9.0-27.0	2.4*	7.7*	26.7	91.96*
3979	5.0-15.2-19.0	4.3*	13.9	17.5	90.74*
1749	28.0- 0.0- 0.0	29.6	0.0	0.0	105.71
#TOTALS - NO. SAMPLES 5 - SMPLS MISBRANDED 4 - 93.30					
BARNARD FERTILIZER-DIV OF GAGE'S BARNARD, MO					
4366	28.0- 0.0- 0.0	28.3	0.0	0.0	101.07
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 101.07					
BARTLETT & COMPANY WAVERLY, MO					
3012	20.3- 2.7- 8.1	20.7	3.1	7.8	102.40
3013**	20.3- 2.7- 8.1	19.5	3.5	8.7	101.11
1754**	25.3- 0.0- 0.0	25.3	0.0	0.0	100.00
2011**	29.0- 0.0- 0.0	29.7	0.0	0.0	102.41
3023**	29.5- 0.0- 0.0	29.4	0.0	0.0	99.66
3267**	29.0- 0.0- 0.0	28.6	0.0	0.0	98.62
3273	32.0- 0.0- 0.0	30.9	0.0	0.0	96.56*
#TOTALS - NO. SAMPLES 10 - SMPLS MISBRANDED 1 - 101.00					
BETHMANN FARMS BELLE, MO					
3264	12.0- 4.0- 8.0	12.2	4.2	7.4	100.50
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.50					
BROWN'S AGRI SERVICE, INC ROCK PORT, MO					
4362	20.0- 5.0- 5.0	19.8	4.6	5.0	97.82
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 97.82					
CARGILL FERTILIZER, INC NEW MADRID, MO					
4674	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 100.00					
CENTRAL MISSOURI AGRISERVICE LLC BLACKBURN, MO					
3502**	3.0- 7.0-11.0	3.6	7.6	10.8	107.10
3503**	3.0- 7.0-11.0	3.6	7.4	10.8	105.81
3498**	4.0-10.0-13.0	4.5	10.7	12.8	105.37
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 0 - 106.01					
CENTRAL MISSOURI AGRISERVICE LLC MARSHALL, MO					
3504	3.0- 8.0-10.0	3.2	8.4	9.6	102.50
3505**	4.0-10.0-10.0	4.9	9.7	9.7	102.37
3506**	6.0- 3.0- 9.0	6.6	2.8	8.1	99.63
3507	28.0- 0.0- 0.0	28.3	0.0	0.0	101.07
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 0 - 101.43					
CONAGRA FERTILIZER PEKIN, IL					
2263	10.0-34.0- 0.0	10.2	32.6	0.0	97.27
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 97.27					
CRAIG SUPPLY CRAIG, MO					
3999	22.0- 0.0- 0.0	22.3	0.0	0.0	101.36
4000**	26.5- 0.0- 0.0	27.1	0.0	0.0	102.26
#TOTALS - NO. SAMPLES 2 - SMPLS MISBRANDED 0 - 101.85					
CROP PRODUCTION SERVICES WESTBORO, MO					
3988	20.5- 9.5- 6.5	19.6	9.7	6.3	97.59
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 0 - 97.59					
CUNNINGHAM FERTILIZER MEMPHIS, MO					
4357	19.0- 5.5-11.0	18.8	5.6	11.1	99.83
#TOTALS - NO. SAMPLES 4 - SMPLS MISBRANDED 0 - 102.75					
DELTA GROWERS ASSOCIATION CHARLESTON, MO					
4676	32.0- 0.0- 0.0	30.2	0.0	0.0	94.38*
#TOTALS - NO. SAMPLES 1 - SMPLS MISBRANDED 1 - 94.38					
DELTA GROWERS ASSOC-EAST PRAIRIE CHARLESTON, MO					
3763	32.0- 0.0- 0.0	31.7	0.0	0.0	99.06
4481	32.0- 0.0- 0.0	31.9	0.0	0.0	99.69
4678	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
#TOTALS - NO. SAMPLES 3 - SMPLS MISBRANDED 0 - 99.89					

LIQUID FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
DELTA GROWERS ASSOC-NEW MADRID		CHARLESTON, MO			
3762	32.0- 0.0- 0.0	31.7	0.0	0.0	99.06
4487	32.0- 0.0- 0.0	31.9	0.0	0.0	99.69
4610	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
4611	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
4613	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
4744	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	0 -	100.36
DREXEL ELEVATOR		DREXEL, MO			
3509	28.0- 0.0- 0.0	28.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
EVERGREEN LIQUID PLANT FOOD LTD. CANADA		BRESLAU, ONTARIO,			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.72
FARMERS SUPPLY CO		BURLINGTON JCT, MO			
3993	18.0-10.5- 3.5	17.9	9.9	4.1	98.68
3998	20.0- 0.0- 0.0	21.2	0.0	0.0	106.00
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	101.59
FARMLAND INDUSTRIES, INC		KANSAS CITY, MO			
#TOTALS - NO. SAMPLES		5 - SMPLS	MISBRANDED	0 -	99.06
FERTILIZER SERVICE CO		FAIRFAX, MO			
4354	6.0-11.0-11.0	7.3	11.4	11.8	109.33
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	109.33
GAGE'S FERTILIZER & GRAIN INC		STANBERRY, MO			
3990	2.0- 7.5- 7.5	2.7	7.3	7.4	103.40
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	103.40
GARD CROP SERVICE		PALMYRA, MO			
3983	14.5- 6.2-13.4	14.3	5.9	13.6	98.54
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.54
GLASGOW CO-OP ASSOCIATION		GLASGOW, MO			
3500	19.9- 4.5- 7.2	19.9	4.7	7.4	101.07
3501	19.9- 4.5- 7.2	19.5	4.8	7.4	100.00
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.53
HELENA CHEMICAL COMPANY		CLARKTON, MO			
1603	32.0- 0.0- 0.0	10.6*	0.0	0.0	33.13*
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	33.13
HODGES FERTILIZER		PERRY, MO			
3985	16.7-11.1-11.1	16.5	10.8	11.2	98.65
1750	28.0- 0.0- 0.0	28.1	0.0	0.0	100.36
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.42
HYDRO MERSCHMANN LLC		WEST POINT, IA			
3256	4.0-12.0-24.0	4.6	12.2	23.6	102.14
3272	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	101.26
HYDRO - MERSCHMANN LLC (FT MADISON)		WEST POINT, IA			
4602	3.0-10.0-30.0	3.3	9.3	30.3	99.11
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.11
HYDRO MERSCHMANN LLC (ALEXANDRIA)		WEST POINT, IA			
4369	32.0- 0.0- 0.0	32.1	0.0	0.0	100.31
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.31
KENNETT LIQUID FERTILIZER		KENNETT, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	1 -	88.75
LANGE-STEGMANN COMPANY		ST LOUIS, MO			
2773	32.0- 0.0- 0.0	33.8	0.0	0.0	105.63
4486	32.0- 0.0- 0.0	31.6	0.0	0.0	98.75
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	102.18

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
LAROCHE INDUSTRIES INC		ATLANTA, GA			
2012	28.0- 0.0- 0.0	29.9	0.0	0.0	106.79
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	106.79
LITER FERTILIZER & CHEMICAL INC		CENTER, MO			
3986**	17.1-10.4-10.5	16.9	10.4	10.5	99.39
2265	28.0- 0.0- 0.0	27.8	0.0	0.0	99.29
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	101.03
GABE LOGSDON & SON INC		WAYLAND, MO			
4201	5.0-10.0-20.0	4.9	10.5	19.0	99.60
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.60
MACZUK INDUSTRIES, INC		BRUNSWICK, MO			
2008	2.0- 6.0-12.0	2.6	7.6	11.3	113.21
3738	3.0- 9.0-27.0	3.3	9.3	26.0	100.39
2515	4.0-10.0-10.0	4.4	9.6	9.8	99.47
3756	28.0- 0.0- 0.0	27.6	0.0	0.0	98.57
4604	28.0- 0.0- 0.0	29.1	0.0	0.0	103.93
#TOTALS - NO. SAMPLES		9 - SMPLS	MISBRANDED	1 -	101.01
MACZUK INDUSTRIES, INC		CRAIG, MO			
3982	10.0-30.0- 0.0	9.8	30.3	0.0	100.25
4001	28.0- 0.0- 0.0	27.8	0.0	0.0	99.29
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.85
MACZUK INDUSTRIES, INC		NEW HAVEN, MO			
4605	28.0- 0.0- 0.0	28.2	0.0	0.0	100.71
2014	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
2517	32.0- 0.0- 0.0	32.1	0.0	0.0	100.31
4606	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
4609	32.0- 0.0- 0.0	30.8	0.0	0.0	96.25*
4612	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
#TOTALS - NO. SAMPLES		6 - SMPLS	MISBRANDED	1 -	99.73
METZ GRAIN		METZ, MO			
2013	28.0- 0.0- 0.0	28.5	0.0	0.0	101.79
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.79
MFA AGRI SERVICES		CARTHAGE, MO			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.41
MFA AGRI SERVICES		CHAFFEE, MO			
3015**	0.3- 0.0- 0.0	0.5	0.0	0.0	166.67
3751	14.0- 3.0-12.0	14.8	3.3	11.6	103.91
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	104.72
MFA AGRI SERVICES		KAHOKA, MO			
4368	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
MFA AGRI SERVICES		LEVASY, MO			
3981**	6.5-12.9-13.0	6.5	12.3	12.3	96.33*
3992**	17.1- 8.0- 5.0	16.5	8.0	5.2	98.19
3995**	19.6- 4.9- 4.9	19.6	5.0	4.5	99.63
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	98.07
MFA AGRI SERVICES		MEXICO, MO			
3977	3.3- 9.9-14.8	3.2	9.8	14.8	99.03
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	97.90
MFA AGRI SERVICES		NORBORNE, MO			
3755**	26.9- 0.0- 0.0	26.9	0.0	0.0	100.00
4207	27.5- 0.0- 0.0	27.5	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	99.28
MFA PLANT FOODS		COLUMBIA, MO			
4202	10.0-30.0- 0.0	9.5	30.1	0.0	99.00
2010**	12.0- 0.0- 0.0	12.8	0.0	0.0	106.67
3508	28.0- 0.0- 0.0	27.5	0.0	0.0	98.21
4810	28.0- 0.0- 0.0	27.5	0.0	0.0	98.21
4208	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44

LIQUID FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
MFA PLANT FOODS COLUMBIA, MO					
4746	32.0- 0.0- 0.0	29.0*	0.0	0.0	90.63*
#TOTALS	- NO. SAMPLES	6 - SMPLS	MISBRANDED	1 -	97.61
MFA PLANT FOODS HAYTI, MO					
3761	32.0- 0.0- 0.0	31.7	0.0	0.0	99.06
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	99.06
MID AMERICA ENVIRO AG SERVICES CONCORDIA, MO					
3978	3.7-11.2-14.9	4.2	11.3	15.4	103.80
3265**	13.2- 0.0- 0.0	12.6	0.0	0.0	95.45*
3987	20.0- 7.7- 7.7	19.4	8.0	8.0	99.52
#TOTALS	- NO. SAMPLES	8 - SMPLS	MISBRANDED	2 -	102.92
MIDWEST AGRI-CHEMICO, INC CAPE GIRARDEAU, MO					
4367	32.0- 0.0- 0.0	32.1	0.0	0.0	100.31
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	100.31
MIDWEST FERTILIZER, INC PAOLA, KS					
2516	28.0- 0.0- 0.0	28.4	0.0	0.0	101.43
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	101.43
MO VALLEY AGRI SERVICE ROCK PORT, MO					
3991	3.6-11.0-10.9	3.4	10.2	11.0	95.26*
4356**	19.0- 5.0- 5.0	19.1	5.7	5.6	104.15
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	1 -	100.32
MONROE COUNTY CO-OP AGRI SER. PARIS, MO					
2266	28.0- 0.0- 0.0	27.2	0.0	0.0	97.14
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	97.14
MONROE COUNTY SERVICE CO PARIS, MO					
3980**	5.8-13.7-17.6	6.5	13.9	17.5	103.00
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	103.00
MORGAN FERTILIZER, INC EDINA, MO					
4355	16.4- 4.8-14.8	16.3	5.3	16.0	103.50
4209	32.0- 0.0- 0.0	31.4	0.0	0.0	98.13
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	0 -	100.66
MORGAN FERTILIZER, INC MEMPHIS, MO					
4363	27.0- 7.7- 0.0	26.9	7.8	0.0	100.00
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	100.00
MORGAN FERTILIZER, INC WYACONDA, MO					
4476	2.0- 6.0-12.0	2.1	6.1	12.2	102.14
4197	2.0- 6.0-32.0	2.1	6.0	32.0	100.42
3259	11.0-33.0- 0.0	11.4	34.3	0.0	103.86
3996	11.0-33.0- 0.0	11.4	32.5	0.0	99.77
4204	16.8-10.1-10.1	16.4	10.2	10.3	99.37
#TOTALS	- NO. SAMPLES	5 - SMPLS	MISBRANDED	0 -	101.13
NA-CHURS/ALPINE SOLUTIONS RED OAK, IA					
4747	0.0- 0.0-30.0	0.0	0.0	29.9	99.67
4738**	3.0-18.0-18.0	2.9	18.3	18.4	101.33
4739**	9.0-18.0- 9.0	8.6	18.0	9.2	99.05
#TOTALS	- NO. SAMPLES	3 - SMPLS	MISBRANDED	0 -	100.06
NODAWAY FERTILIZER & GRAIN INC RAVENWOOD, MO					
4358	2.0- 6.0- 9.0	2.9	7.4	10.2	123.20
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	123.20
OLD MILL GRAIN & SEED CO HARRISONVILLE, MO					
4203	4.4-13.3-20.0	4.6	13.6	20.5	102.71
3257	18.0- 6.7-11.2	18.5	7.7	11.3	105.12
3258	18.0- 9.0- 9.0	17.9	9.1	9.0	100.00
#TOTALS	- NO. SAMPLES	3 - SMPLS	MISBRANDED	0 -	102.56
OLD MONROE ELEVATOR & SUPPLY CO OLD MONROE, MO					
4359	3.1- 9.3-11.2	3.6	9.1	11.3	101.94
3750	6.6- 6.6-10.0	7.0	6.6	9.5	100.82
#TOTALS	- NO. SAMPLES	4 - SMPLS	MISBRANDED	1 -	99.11

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
ORRRICK FARM SERVICE, INC ORRRICK, MO					
2766**	17.0- 5.5- 5.5	17.0	4.7*	5.9	97.62
3752	20.0- 5.7- 5.7	20.2	6.0	5.6	101.58
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	1 -	99.72
PRODUCE EXCHANGE GOLDEN CITY, MO					
2262	10.0-30.0- 0.0	10.3	29.3	0.0	99.00
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	99.00
RAY CARROLL COUNTY GRAIN GROWERS BRUNSWICK, MO					
3740	17.9- 5.9- 8.9	17.1	6.3	8.9	98.58
3741	17.9- 5.9- 8.9	17.6	6.1	9.0	99.82
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	0 -	99.20
RAY-CARROLL COUNTY GRAIN GROWERS NORBORNE, MO					
2769	28.0- 0.0- 0.0	28.1	0.0	0.0	100.36
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	100.36
RICKETTS FARM SERVICE OF CAIRO, INC CAIRO, MO					
2007	14.0- 9.0- 9.0	15.0	8.9	8.8	102.91
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	102.91
RICKETTS FARM SERVICE INC SALISBURY, MO					
4473	3.0- 9.0-27.0	3.4	9.3	27.0	102.75
2009	10.0-30.0- 0.0	9.5	29.8	0.0	98.25
3011	10.0-30.0- 0.0	10.5	29.2	0.0	99.25
3748	10.0-30.0- 0.0	11.2	30.2	0.0	103.50
3014	13.3- 6.6- 6.6	13.0	7.0	7.1	101.51
3745**	21.2- 5.6- 8.4	21.3	5.7	8.6	100.97
3746**	21.2- 5.6- 8.4	21.4	6.0	8.3	101.77
3744**	21.1- 7.0- 7.0	21.6	7.2	7.3	102.69
#TOTALS	- NO. SAMPLES	14 - SMPLS	MISBRANDED	0 -	101.01
ROOTS INC INDEPENDENCE, MO					
3016**	0.0- 2.0- 4.0	0.0	3.7	5.4	160.00
3017	0.0- 2.0-12.0	0.0	2.9	12.3	113.13
3018**	0.0- 5.0- 8.0	0.0	5.4	8.3	106.11
3019**	2.0- 2.0- 0.0	2.5	2.9	0.0	135.00
#TOTALS	- NO. SAMPLES	4 - SMPLS	MISBRANDED	0 -	121.60
ROYSTER-CLARK AGRIBUSINESS, INC BOONVILLE, MO					
3275	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44
4002	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
4614	32.0- 0.0- 0.0	31.6	0.0	0.0	98.75
#TOTALS	- NO. SAMPLES	3 - SMPLS	MISBRANDED	0 -	99.27
SALT RIVER AG SERVICE INC LEONARD, MO					
4200	4.1-12.3-22.3	4.5	13.1	23.4	106.35
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	0 -	104.45
SCHAEPERKOETTER STORE, INC MT STERLING, MO					
3496	3.0- 9.0-27.0	3.4	10.2	26.5	105.29
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	105.29
SCHAFFER FERTILIZER, INC MARTINSBURG, MO					
3739	6.1-18.8-13.5	6.9	18.5	14.0	102.37
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	0 -	100.41
SERVICE AND SUPPLY COOPERATIVE, INC BELLFLOWER, MO					
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	105.55
SERVICE AND SUPPLY COOPERATIVE, INC VANDALIA, MO					
4198	3.5-11.7-11.7	4.6	13.2	13.2	115.91
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	115.91
ST JOSEPH AGRI SERVICES, INC ST JOSEPH, MO					
4199	4.0-13.0-13.0	4.2	12.5	13.1	98.94
4474	19.0- 6.0- 7.5	19.0	5.8	8.0	100.17
#TOTALS	- NO. SAMPLES	2 - SMPLS	MISBRANDED	0 -	99.61
SUNFLOWER SERVICE INC HERINGTON, KS					
#TOTALS	- NO. SAMPLES	1 - SMPLS	MISBRANDED	0 -	98.33

LIQUID FERTILIZER

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
SUNFLOWER SPECIALTY PRODUCTS, INC		HERINGTON, KS			
4478	4.0-10.0-10.0	4.2	9.7	10.1	99.74
4480	7.0-21.0- 7.0	8.1	19.6	6.5	98.25
4484	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.51
SUPERIOR CROP CARE FERTILIZER		CAPE GIRARDEAU, MO			
4607	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	100.00
TERRA INTERNATIONAL		CARUTHERSVILLE, MO			
4742	31.7- 0.0- 0.0	32.2	0.0	0.0	101.58
4743	32.0- 0.0- 0.0	32.2	0.0	0.0	100.63
4745	32.0- 0.0- 0.0	32.0	0.0	0.0	100.00
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	100.73
TERRA INTERNATIONAL (SIOUX CITY)		SIOUX CITY, IA			
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	100.33
TERRA NITROGEN		SIOUX CITY, IA			
2267	28.0- 0.0- 0.0	28.5	0.0	0.0	101.79
2768	28.0- 0.0- 0.0	27.6	0.0	0.0	98.57
3022	28.0- 0.0- 0.0	28.0	0.0	0.0	100.00
2268	32.0- 0.0- 0.0	32.5	0.0	0.0	101.56
2771	32.0- 0.0- 0.0	32.1	0.0	0.0	100.31
2772	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44
3269	32.0- 0.0- 0.0	31.3	0.0	0.0	97.81
3270	32.0- 0.0- 0.0	32.3	0.0	0.0	100.94
3271	32.0- 0.0- 0.0	31.4	0.0	0.0	98.13
4677	32.0- 0.0- 0.0	32.6	0.0	0.0	101.88
#TOTALS - NO. SAMPLES		11 - SMPLS	MISBRANDED	0 -	99.82
UAP MID SOUTH		PORTAGEVILLE, MO			
4482	32.0- 0.0- 0.0	31.5	0.0	0.0	98.44
4675	32.0- 0.0- 0.0	31.9	0.0	0.0	99.69
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	99.06
UNITED SUPPLIERS, INC		ELDORA, IA			
3754**	12.0- 0.0- 0.0	12.3	0.0	0.0	102.50
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	102.50
VEHIGE ENTERPRISES, INC		FORISTELL, MO			
4475	18.9- 6.3- 9.4	18.4	6.4	9.1	98.16
3989	23.3- 6.2- 6.2	23.3	6.2	6.1	99.85
2770	28.0- 0.0- 0.0	27.7	0.0	0.0	98.93
#TOTALS - NO. SAMPLES		4 - SMPLS	MISBRANDED	0 -	100.04
WEST CENTRAL AGRISERVICES, LLC		ADRIAN, MO			
1751	28.0- 0.0- 0.0	27.9	0.0	0.0	99.64
1752	28.0- 0.0- 0.0	28.1	0.0	0.0	100.36
1753	28.0- 0.0- 0.0	27.8	0.0	0.0	99.29
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	99.76
WEST CENTRAL AGRISERVICES, LLC		BUTLER, MO			
2264	28.0- 0.0- 0.0	28.5	0.0	0.0	101.79
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	101.79
YIELD-PLUS, INC		CAPE GIRARDEAU, MO			
3020	3.0-18.0-18.0	3.4	18.2	18.2	102.33
3261	3.0-18.0-18.0	3.6	18.5	18.0	103.67
4603	3.0-18.0-18.0	3.2	18.5	18.1	102.50
3262	10.0-13.0-13.0	10.3	13.1	13.1	101.53
3021	10.0-20.0-10.0	10.2	20.1	10.0	100.86
3263	10.0-20.0-10.0	9.7	19.7	9.9	98.14
#TOTALS - NO. SAMPLES		7 - SMPLS	MISBRANDED	0 -	101.38
YOCUM FERTILIZER, INC		FAIRFAX, MO			
3994**	19.5- 4.5- 4.5	20.2	5.8	4.7	108.00
4364**	20.5- 0.0- 2.5	21.0	0.0	2.8	102.99
#TOTALS - NO. SAMPLES		2 - SMPLS	MISBRANDED	0 -	105.72

MANUFACTURER		% FOUND			% Relative Value
No.	Grade	Nitrogen	P ₂ O ₅	Potash	
YOCUM SERVICE, INC		MOUND CITY, MO			
3984	16.5- 7.5- 7.5	16.5	7.9	7.9	102.16
3742**	18.0- 6.0- 6.0	17.7	6.0	6.0	98.89
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	0 -	102.36
YOUNG'S AG SERVICE, INC		KEYTESVILLE, MO			
3737**	3.0- 5.5-17.5	4.0	6.2	17.7	110.43
3758**	30.5- 0.0- 0.0	30.3	0.0	0.0	99.34
#TOTALS - NO. SAMPLES		3 - SMPLS	MISBRANDED	1 -	101.76
GLENNONVILLE LIQUID FERT		QULIN, MO			
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	98.50
INTER-STATE MARINE TERM		BOONVILLE, MO			
3274	32.0- 0.0- 0.0	31.7	0.0	0.0	99.06
#TOTALS - NO. SAMPLES		1 - SMPLS	MISBRANDED	0 -	99.06

* Subject to penalty (either 10% or two units deficient from guarantee in nutrient indicated, or 3% deficient in total value).

** Sample analyzed for guaranteed secondary or micronutrients, the results are tabulated beginning page 39.

Totals from July 1, 1999.

_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
A & L AG CENTER, SEDALIA, MO																			
00-3672	21.0-10.0-10.0	....	....	....	....	4.0	5.5	....	....	....	....	....	....	....	....	....	....	....	....
00-3680	22.5-10.0-10.0	....	....	....	....	2.0	2.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3681	22.5-10.0-10.0	....	....	....	....	2.0	2.5	....	....	....	....	....	....	....	....	....	....	....	....
00-3682	22.5-10.0-10.0	....	....	....	....	2.0	2.0	....	....	....	....	....	....	....	....	....	....	....	....
AG COOP SERVICES INC., LA MONTE, MO																			
00-4160	21.3-10.2-15.4	....	....	....	....	1.7	1.5	....	....	....	....	....	....	....	....	....	....	....	....
00-4161	21.3-10.2-15.4	....	....	....	....	1.7	1.8	....	....	....	....	....	....	....	....	....	....	....	....
AG DISTRIBUTORS, CATRON, MO																			
00-3049	17.5-8.5-17.5	....	....	....	....	4.0	4.5	....	....	....	....	....	....	....	....	....	....	4.0	5.0
AG DISTRIBUTORS, DEERING, MO																			
00-4741	28.0-0.0-0.0	....	....	....	....	4.0	0.7*	....	....	....	....	....	....	....	....	....	....	....	....
AG DISTRIBUTORS, DEXTER, MO																			
00-2821	15.0-12.0-26.5	....	....	....	....	3.0	3.8	....	....	....	....	....	....	....	....	....	....	....	....
AG DISTRIBUTORS, KENNETT, MO																			
00-2764	3.0-6.0-12.0	....	....	....	....	1.0	0.8	.10	.10	....	....	....	....	....	....	....	....	....	....
00-2765	10.0-6.0-10.0	....	....	....	....	2.0	1.7	.20	.07*	....	....	....	....	....	....	....	....	....	....
00-3266	28.0-0.0-0.0	....	....	....	....	4.0	3.0*	....	....	....	....	....	....	....	....	....	....	....	....
00-3794	22.0-11.0-20.0	....	....	....	....	1.0	2.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4365	28.0-0.0-0.0	....	....	....	....	4.0	3.8	....	....	....	....	....	....	....	....	....	....	....	....
AGRI-GRO MARKETING, INC., DONIPHAN, MO																			
00-2015	0.0-0.0-0.0	10.0	10.5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
AGRISERVICES OF BRUNSWICK, L.L.C. EAST, BRUNSWICK, MO																			
00-3931	19.9-14.0-14.0	....	....	....	....	2.3	2.9	....	....	....	....	....	....	....	....	....	....	....	....
AGRISERVICES OF BRUNSWICK, L.L.C., WEST, BRUNSWICK, MO																			
00-1745	21.0-0.0-0.0	....	....	....	....	24.0	24.2	....	....	....	....	....	....	....	....	....	....	....	....
00-2513	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....
00-2555	21.0-0.0-0.0	....	....	....	....	24.0	23.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3006	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3747	22.1-4.1-6.9	....	....	....	....	1.3	1.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3749	4.4-8.7-8.7	....	....	....	....	2.1	2.2	....	....	....	....	....	....	....	....	....	....	....	....
00-3757	28.8-0.0-0.0	....	....	....	....	2.0	2.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4601	21.0-0.0-0.0	....	....	....	....	24.0	23.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4868	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
AGRO DISTRIBUTION LLC, PORTAGEVILLE, MO																			
00-3547	13.0-15.0-20.5	....	....	....	....	8.0	9.6	....	....	....	....	....	....	....	....	....	....	....	....
AGRO DISTRIBUTION LLC, RICH HILL, MO																			
00-3798	12.0-7.0-12.0	....	....	....	....	1.0	1.4	....	....	....	....	....	....	....	....	....	....	....	....
00-3799	12.0-7.0-12.0	....	....	....	....	1.0	1.7	....	....	....	....	....	....	....	....	....	....	....	....
AGRO DISTRIBUTION LLC, SIKESTON, MO																			
00-2813	21.0-16.0-13.0	....	....	....	....	4.0	6.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3102	7.0-20.0-27.0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.7	1.7
00-4505	20.0-5.0-27.0	....	....	....	....	....	....	.20	.26	....	....	....	....	....	....	....	....	....	....
AIM LAWN & GARDEN PRODUCTS, INC, AVON LAKE, OH																			
00-3363	28.0-3.0-6.0	....	....	....	....	2.6	3.2	....	....	....	....	....	....	....	....	....	....	....	....
00-3379	25.0-3.0-3.0	....	....	....	....	6.4	8.0	....	....	....	....	....	....	....	....	....	....	....	....

Deficient in the constituent indicated. The Missouri Fertilizer Law does not authorize assessment of penalty for deficiencies in additional plant nutrients.

SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
AIM LAWN & GARDEN PRODUCTS, INC, AVON LAKE, OH																			
00-3389	20.0-2.0-5.0	....	....	....	....	1.5	1.6	....	....	....	....	....	....	....	....	....	....	....	....
AMERICAN PLANT FOOD CORPORATION, GALENA PARK, TX																			
00-2260	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
AMPEL CORP., DES MOINES, IA																			
00-2514	0.0-0.0-0.0	21.0	22.4	....	....	16.0	15.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4193	0.0-0.0-0.0	35.0	31.0*	0.60	3.32	....	....	....	....	....	....	....	....	....	....	....	....	....	....
ARNETT AGRI SERVICE, LA MONTE, MO																			
00-4540	4.0-10.5-42.0	....	....	....	....	7.5	7.7	....	....	....	....	....	....	....	....	....	....	....	....
ASC MINERAL PROCESSING, ALLERTON, IL																			
00-4194	0.0-0.0-0.0	37.0	35.9	0.50	0.25*	....	....	....	....	....	....	....	....	....	....	....	....	....	....
B & B COTTON COMPANY, CAMPBELL, MO																			
00-3820	7.0-12.0-32.0	....	....	....	....	3.0	4.6	.60	.73	....	....	....	....	....	....	....	....	....	....
00-3915	14.0-14.0-14.0	....	....	....	....	7.0	8.0	.90	.92	....	....	....	....	....	....	....	....	....	....
BACKES & TOELKE AGRI PRODUCTS INC, NEW HAVEN, MO																			
00-2708	22.5-11.3-11.3	....	....	....	....	3.7	3.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3687	23.0-11.0-11.0	....	....	....	....	1.5	2.2	....	....	....	....	....	....	....	....	....	....	....	....
BALL FERTILIZER, KAHOKA, MO																			
00-4247	4.0-19.5-37.6	....	....	....	....	.8	.7	....	....	....	....	....	....	....	....	....	....	....	....
BARTLETT & COMPANY, WAVERLY, MO																			
00-1754	25.3-0.0-0.0	....	....	....	....	3.2	3.5	....	....	....	....	....	....	....	....	....	....	....	....
00-2011	29.0-0.0-0.0	....	....	....	....	3.0	2.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3013	20.3-2.7-8.1	....	....	....	....	1.6	1.6	....	....	....	....	....	....	....	....	....	....	....	....
00-3023	29.5-0.0-0.0	....	....	....	....	1.8	2.2	....	....	....	....	....	....	....	....	....	....	....	....
00-3267	29.0-0.0-0.0	....	....	....	....	3.0	2.9	....	....	....	....	....	....	....	....	....	....	....	....
BERNIE FARMERS FERTILIZER, BERNIE, MO																			
00-2786	38.0-0.0-0.0	....	....	....	....	6.0	7.0	....	....	....	....	....	....	....	....	....	....	....	....
BICHSEL SPREADING SERVICE, LEONARD, MO																			
00-4329	22.4-9.5-11.2	....	....	....	....	5.0	5.7	....	....	....	....	....	....	....	....	....	....	....	....
BOLIVAR FARMERS EXCHANGE, BOLIVAR, MO																			
00-3318	3.9-10.0-42.0	....	....	1.40	1.74	....	....	.20	.17	....	....	....	....	....	....	....	....	....	....
00-2600	3.9-10.0-42.0	....	....	1.40	1.95	....	....	.20	.20	....	....	....	....	....	....	....	....	....	....
BOLIVAR FARMERS EXCHANGE/STOCKTON, STOCKTON, MO																			
00-3454	20.6-15.5-5.2	....	....	2.60	2.53	5.2	5.9	....	....	....	....	....	....	....	....	....	....	....	....
BOYLES FARM SERVICE, INC., FISK, MO																			
00-4156	14.0-15.0-20.0	....	....	....	....	2.3	3.4	....	....	....	....	....	....	....	....	....	....	.90	1.3
BRUMBAUGH INC, TAYLOR, MO																			
00-4059	4.0-21.0-31.0	....	....	....	....	5.0	6.3	....	....	....	....	....	....	....	....	....	....	.70	.71
CARGILL FERTILIZER, INC., NEW MADRID, MO																			
00-1747	21.0-0.0-0.0	....	....	....	....	24.0	24.5	....	....	....	....	....	....	....	....	....	....	....	....
00-2006	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....
00-3004	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....
CARGILL FERTILIZER, INC, NEW MADRID, MO																			
00-4187	21.0-0.0-0.0	....	....	....	....	24.0	23.9	....	....	....	....	....	....	....	....	....	....	....	....
00-4351	21.0-0.0-0.0	....	....	....	....	24.0	24.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4352	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....

Deficient in the constituent indicated. The Missouri Fertilizer Law does not authorize assessment of penalty for deficiencies in additional plant nutrients.

_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
CARGILL FERTILIZER, INC, NEW MADRID, MO																			
00-4472	20.5-0.0-0.0	....	....	....	....	23.5	23.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4671	21.0-0.0-0.0	....	....	....	....	24.0	24.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4809	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
CENTRAL MISSOURI AGRISERVICE LLC, BLACKBURN, MO																			
00-3498	4.0-10.0-13.0	....	....	....	....	1.6	1.7	....	....	....	....	....	....	....	....	....	....	.30	.06*
00-3502	3.0-7.0-11.0	....	....	....	....	1.8	1.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3503	3.0-7.0-11.0	....	....	....	....	1.8	2.0	....	....	....	....	....	....	....	....	....	....	....	....
CENTRAL MISSOURI AGRISERVICE LLC., MALTA BEND, MO																			
00-3551	8.0-21.0-30.0	....	....	....	....	5.1	5.5	....	....	....	....	....	....	....	....	....	....	....	....
CENTRAL MISSOURI AGRISERVICE LLC., MARSHALL, MO																			
00-3505	4.0-10.0-10.0	....	....	....	....	1.1	1.4	....	....	....	....	....	....	....	....	....	....	.10	.01*
00-3506	6.0-3.0-9.0	....	....	....	....	10.2	9.1*	....	....	....	....	....	....	....	....	....	....	....	....
00-3544	21.0-15.0-18.0	....	....	....	....	2.5	3.1	....	....	....	....	....	....	....	....	....	....	....	....
CONAGRA FERTILIZER, PEKIN, IL																			
00-4435	0.0-0.0-20.0	....	....	10.0	10.9	21.0	21.2	....	....	....	....	....	....	....	....	....	....	....	....
CRAIG SUPPLY, CRAIG, MO																			
00-4000	26.5-0.0-0.0	....	....	....	....	2.0	2.0	....	....	....	....	....	....	....	....	....	....	....	....
CROP PRODUCTION SERVICES, LAPLATA, MO																			
00-3446	18.5-8.5-15.0	....	....	....	....	2.5	3.9	....	....	....	....	....	....	....	....	....	....	....	....
CYPRESS CHEMICAL COMPANY, HELENA, AR																			
00-2005	21.0-0.0-0.0	....	....	....	....	23.0	22.9	....	....	....	....	....	....	....	....	....	....	....	....
00-2559	20.5-0.0-0.0	....	....	....	....	24.0	23.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4191	20.5-0.0-0.0	....	....	....	....	23.0	22.7	....	....	....	....	....	....	....	....	....	....	....	....
DEBRUCE FERTILIZER, N KANSAS CITY, MO																			
00-1746	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
00-2004	20.5-0.0-0.0	....	....	....	....	23.5	22.2	....	....	....	....	....	....	....	....	....	....	....	....
00-2389	0.0-0.0-22.0	....	....	11.0	11.8	22.0	21.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3003	21.0-0.0-0.0	....	....	....	....	24.0	23.4	....	....	....	....	....	....	....	....	....	....	....	....
00-3492	21.0-0.0-0.0	....	....	....	....	24.0	22.2*	....	....	....	....	....	....	....	....	....	....	....	....
00-4192	19.0-0.0-0.0	....	....	....	....	23.5	22.7	....	....	....	....	....	....	....	....	....	....	....	....
DELTA GROWERS ASSN., CHARLESTON, MO																			
00-3104	6.0-12.5-24.0	....	....	4.00	5.18	9.0	11.0	....	....	....	....	....	....	....	....	....	....	....	....
DELTA GROWERS ASSN., EAST PRAIRIE, CHARLESTON, MO																			
00-2632	16.5-43.0-0.0	....	....	....	....	0.5	8.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4047	8.5-22.0-28.5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.5
DELTA GROWERS ASSN., MATTHEWS, CHARLESTON, MO																			
00-3040	23.0-32.5-0.0	....	....	....	....	1.5	4.0	.33	.35	....	....	....	....	....	....	....	....	....	....
DISSEN FARM SUPPLY, NEW HAVEN, MO																			
00-3686	23.0-11.0-10.5	....	....	....	....	2.5	3.0	....	....	....	....	....	....	....	....	....	....	....	....
EARL MAY SEED & NURSERY LC, SHENANDOAH, IA																			
00-3161	10.0-20.0-10.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.2	....	....	....	....
EARL MAY SEED & NURSERY LC, SHENANDOAH, IA																			
00-4096	30.0-3.0-4.0	4.5	4.6	1.0	1.3
00-4098	30.0-3.0-6.0	2.0	2.8	1.0	1.3

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_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
EL DORADO CHEMICAL COMPANY, KENNETT, MO																			
00-3548	10.0-12.0-27.0	....	....	....	....	6.0	7.4	....	....	....	....	....	....	....	....	....	....	....	....
ENVIRO-SAFE LABORATORIES, MIAMI, FL																			
00-2574	13.0-13.0-13.0	....	....	1.20	2.28	....	....	.02	.03	....	....	.05	.05	.20	.51	.06	.11	....	....
00-3059	18.0-6.0-8.0	....	....	....	....	....	....	.02	.02	....	....	.05	.06	.20	.48	.06	.10	....	....
EX-CEL MILLING INC., SYRACUSE, MO																			
00-1609	25.5-12.5-12.5	....	....	....	....	3.0	4.1	....	....	....	....	....	....	....	....	....	....	....	....
FARMERS CHEMICAL, KANSAS CITY, MO																			
00-2573	13.0-13.0-13.0	....	....	....	....	12.0	12.5	....	....	....	....	....	....	....	....	....	....	....	....
00-2575	13.0-13.0-13.0	....	....	....	....	12.0	12.3	....	....	....	....	....	....	....	....	....	....	....	....
00-2576	13.0-13.0-13.0	....	....	....	....	12.0	12.2	....	....	....	....	....	....	....	....	....	....	....	....
00-2577	13.0-13.0-13.0	....	....	....	....	12.0	11.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3305	13.0-13.0-13.0	....	....	....	....	12.0	12.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3306	13.0-13.0-13.0	....	....	....	....	12.0	12.1	....	....	....	....	....	....	....	....	....	....	....	....
00-4225	13.0-13.0-13.0	....	....	....	....	12.0	12.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4511	13.0-13.0-13.0	....	....	....	....	12.0	12.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4522	10.0-20.0-10.0	....	....	....	....	7.0	8.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4623	13.0-13.0-13.0	....	....	....	....	12.0	12.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4842	13.0-13.0-13.0	....	....	....	....	12.0	12.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4843	13.0-13.0-13.0	....	....	....	....	12.0	11.9	....	....	....	....	....	....	....	....	....	....	....	....
FARMERS ELEVATOR AND SUPPLY CO., CLINTON, MO																			
00-3436	13.7-20.5-20.5	....	....	....	....	3.4	4.1	....	....	....	....	....	....	....	....	....	....	....	.36 .42
FARMERS PRODUCE EXCHANGE-CONWAY, LEBANON, MO																			
00-2890	0.0-12.3-36.5	....	....	2.00	2.64	4.2	4.9	....	....	....	....	....	....	....	....	....	....	....	....
FARMERS PRODUCE EXCHANGE-LEBANON, LEBANON, MO																			
00-2384	0.0-11.4-25.1	....	....	4.9	6.4	10.4	12.1	....	....	....	....	....	....	....	....	....	....	....	....
FARMLAND INDUSTRIES, INC., KANSAS CITY, MO																			
00-1888	0.0-0.0-22.0	....	....	11.0	10.9	22.0	20.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3063	16.0-8.0-8.0	....	....	....	....	15.0	16.3	....	....	....	....	....	....	1.5	2.2	.10	.10	.10	1.29
00-3065	16.0-20.0-6.0	....	....	....	....	12.0	12.5	....	....	....	....	....	....	....	....	....	....	....	....
00-3067	13.0-13.0-13.0	....	....	....	....	12.0	12.2	....	....	....	....	....	....	....	....	....	....	....	....
00-3074	12.0-24.0-12.0	....	....	....	....	7.0	8.7	....	....	....	....	....	....	....	....	....	....	....	....
00-3079	10.0-20.0-10.0	....	....	....	....	7.0	7.4	....	....	....	....	....	....	....	....	....	....	....	....
00-3080	10.0-30.0-5.0	....	....	....	....	6.0	6.0	....	....	....	....	....	....	....	....	....	....	....	2.0 2.4
00-3493	21.0-0.0-0.0	....	....	....	....	24.0	23.9	....	....	....	....	....	....	....	....	....	....	....	....
00-4030	16.0-20.0-6.0	....	....	....	....	12.0	12.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4510	13.0-13.0-13.0	....	....	....	....	12.0	12.9	....	....	....	....	....	....	....	....	....	....	....	....
00-4512	13.0-13.0-13.0	....	....	....	....	12.0	12.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4513	13.0-13.0-13.0	....	....	....	....	12.0	12.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4622	13.0-13.0-13.0	....	....	....	....	12.0	11.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4811	13.0-13.0-13.0	....	....	....	....	12.0	12.3	....	....	....	....	....	....	....	....	....	....	....	....
FARMLAND INDUSTRIES, INC, KANSAS CITY, MO																			
00-4844	13.0-13.0-13.0	....	....	....	....	12.0	12.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4845	13.0-13.0-13.0	12.0	12.0
FREE FLOW FERTILIZER, MAUMEE, OH																			
00-3154	20.0-27.0-5.010	.08*	1.0	1.4	.10	.14	.10	.13

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
FREE FLOW FERTILIZER, MAUMEE, OH																			
00-3383	24.0-4.0-14.0	1.5	2.0	1.0	1.3
00-3605	10.0-10.0-10.0	....	....	....	....	1.9	2.6	....	....	....	....	....	....	2.0	2.3	....	....	....	....
00-3857	28.0-3.0-3.0	....	....	....	....	3.5	4.2	....	....	....	....	....	....	....	....	....	....	....	....
00-3858	28.0-3.0-3.0	....	....	....	....	3.5	4.4	....	....	....	....	....	....	....	....	....	....	....	....
00-3859	28.0-3.0-3.0	....	....	....	....	3.5	2.6*	....	....	....	....	....	....	....	....	....	....	....	....
00-4104	29.0-3.0-4.0	....	....	....	....	3.9	5.0	....	....	....	....	....	....	2.0	1.8	....	....	....	....
00-4105	29.0-3.0-4.0	....	....	....	....	3.9	5.1	....	....	....	....	....	....	2.0	2.5	....	....	....	....
00-4106	29.0-3.0-4.0	....	....	....	....	3.9	5.0	....	....	....	....	....	....	2.0	2.4	....	....	....	....
00-4107	29.0-3.0-4.0	....	....	....	....	3.9	4.8	....	....	....	....	....	....	2.0	2.3	....	....	....	....
00-4108	29.0-3.0-4.0	....	....	....	....	3.9	5.4	....	....	....	....	....	....	2.0	2.0	....	....	....	....
00-4109	29.0-3.0-4.0	....	....	....	....	3.9	4.9	....	....	....	....	....	....	2.0	2.5	....	....	....	....
00-4110	29.0-3.0-4.0	....	....	....	....	3.9	5.0	....	....	....	....	....	....	2.0	2.2	....	....	....	....
00-4111	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.5	....	....	....	....
00-4121	28.0-3.0-3.0	....	....	....	....	3.5	4.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4122	28.0-3.0-3.0	....	....	....	....	3.5	3.9	....	....	....	....	....	....	....	....	....	....	....	....
00-4123	28.0-3.0-3.0	....	....	....	....	3.5	2.8*	....	....	....	....	....	....	....	....	....	....	....	....
00-4124	28.0-3.0-3.0	....	....	....	....	3.5	3.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4279	29.0-3.0-4.0	....	....	....	....	3.9	5.2	....	....	....	....	....	....	2.0	2.3	....	....	....	....
00-4283	29.0-3.0-4.0	....	....	....	....	3.9	4.7	....	....	....	....	....	....	2.0	2.1	....	....	....	....
00-4424	29.0-3.0-4.0	....	....	....	....	3.9	4.5	....	....	....	....	....	....	....	....	....	....	....	....
00-4558	32.0-3.0-5.0	....	....	....	....	4.3	4.7	....	....	....	....	....	....	....	....	....	....	....	....
00-4560	28.0-3.0-3.0	....	....	....	....	3.5	3.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4562	27.0-3.0-6.0	....	....	....	....	2.0	2.2	....	....	....	....	....	....	1.0	3.3	....	....	....	....
00-4643	29.0-3.0-4.0	....	....	....	....	3.9	4.8	....	....	....	....	....	....	2.0	2.0	....	....	....	....
00-4644	29.0-3.0-4.0	....	....	....	....	3.9	4.5	....	....	....	....	....	....	2.0	1.9	....	....	....	....
00-4645	29.0-3.0-4.0	....	....	....	....	3.9	4.5	....	....	....	....	....	....	2.0	1.6*	....	....	....	....
00-4646	29.0-3.0-4.0	....	....	....	....	3.9	4.8	....	....	....	....	....	....	2.0	2.1	....	....	....	....
00-4648	28.0-3.0-3.0	....	....	....	....	3.5	4.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4649	28.0-3.0-3.0	....	....	....	....	3.5	4.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4656	20.0-27.0-5.0	....	....	....	....	....	....	....	....	....	....	.10	.09	1.0	1.4	.10	.13	.10	.14
00-4710	28.0-3.0-3.0	....	....	....	....	3.5	4.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4721	20.0-27.0-5.0	....	....	....	....	....	....	....	....	....	....	.10	.10	1.0	1.5	.10	.16	.10	.16
00-4778	29.0-3.0-4.0	....	....	....	....	3.9	4.8	....	....	....	....	....	....	2.0	1.9	....	....	....	....
00-4779	28.0-3.0-3.0	....	....	....	....	3.5	4.3	....	....	....	....	....	....	....	....	....	....	....	....
GRO TEC, INC., COVINGTON, GA																			
00-4291	25.0-4.0-6.0	....	....	....	....	....	....	.02	.02	....	....	.05	.07	2.0	2.5	.10	.14	.10	.14
00-4293	18.0-24.0-6.0	....	....	....	....	....	....	.02	.03	....	....	.05	.05	.25	1.2	.10	.10	.10	.07*
00-4694	6.0-10.0-10.0	....	....	....	....	....	....	.02	.02	....	....	.05	.04	1.0	1.2	.10	.18	.10	.11
00-4760	6.0-10.0-10.0	....	....	....	....	....	....	.02	.04	....	....	.05	.04	1.0	1.0	.10	.15	.10	.13
RM HART GIN, HOLCOMB, MO																			
00-3807	11.0-5.5-25.0	10.0	10.9
HELENA CHEMICAL COMPANY, CLARKTON, MO																			
00-3054	12.0-15.0-25.0	3.0	4.250	.74

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
HELENA CHEMICAL COMPANY, HAYTI, MO																			
00-2888	0.0-14.0-35.0	7.0	9.2
HELENA CHEMICAL COMPANY, NEW MADRID, MO																			
00-2787	29.5-0.0-17.0	....	....	....	....	2.0	3.4	....	....	....	....	....	....	....	....	....	....	....	....
HOWARD JOHNSON'S ENTERPRISES, INC., MILWAUKEE, WI																			
00-2834	12.0-22.0-14.0	....	....	....	....	1.0	2.1	.02	.02	....	....	.05	.05	1.0	1.4	.10	.17	.10	.28
00-3307	12.0-4.0-10.0	....	....	....	....	1.0	1.6	....	....	....	....	....	....	....	....	....	....	....	....
00-3362	28.0-3.0-5.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	1.8	....	....	....	....
00-3366	27.0-3.0-3.0	....	....	....	....	....	....	....	....	....	....	....	....	.70	.75	....	....	....	....
00-3367	27.0-3.0-3.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.2	....	....	....	....
00-3373	26.0-3.0-4.0	....	....	....	....	2.0	2.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3378	25.0-3.0-3.0	....	....	....	....	2.0	2.5	....	....	....	....	....	....	....	....	....	....	....	....
00-3384	23.0-3.0-8.0	....	....	....	....	3.4	3.3	....	....	....	....	....	....	.07	1.0	....	....	....	....
00-3385	23.0-3.0-8.0	....	....	....	....	3.4	1.8*	....	....	....	....	....	....	.07	.96	....	....	....	....
00-3599	28.0-3.0-4.0	....	....	....	....	2.0	2.4	....	....	....	....	....	....	1.0	1.4	....	....	....	....
00-3602	16.0-8.0-8.0	....	....	....	....	2.0	2.8	....	....	....	....	....	....	2.0	2.3	....	....	....	....
00-4195	0.0-0.0-0.0	36.0	36.3	.40	.22	....	....	....	....	....	....	....	....	....	....	....	....	....	....
00-4287	28.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.6	....	....	....	....
00-4288	28.0-5.0-10.0	....	....	....	....	6.0	6.8	....	....	....	....	....	....	....	....	....	....	....	....
00-4290	26.0-3.0-4.0	....	....	....	....	2.0	1.9	....	....	....	....	....	....	.10	1.7	....	....	....	....
00-4292	23.0-3.0-8.0	....	....	....	....	2.0	1.9	....	....	....	....	....	....	1.0	1.2	....	....	....	....
00-4650	28.0-3.0-4.0	....	....	....	....	2.0	2.7	....	....	....	....	....	....	2.0	2.7	....	....	....	....
00-4652	26.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.5	....	....	....	....
00-4654	23.0-3.0-8.0	....	....	....	....	2.0	1.8	....	....	....	....	....	....	.70	1.1	....	....	....	....
00-4691	12.0-22.0-14.0	....	....	....	....	1.0	2.1	....	....	....	....	....	....	1.0	1.9	....	....	....	....
00-4692	12.0-22.0-14.0	....	....	....	....	1.0	1.8	....	....	....	....	....	....	1.0	1.9	....	....	....	....
00-4711	28.0-3.0-4.0	....	....	....	....	2.0	2.4	....	....	....	....	....	....	1.0	1.3	....	....	....	....
00-4714	26.0-3.0-4.0	....	....	....	....	2.0	1.7	....	....	....	....	....	....	1.0	1.3	....	....	....	....
00-4715	26.0-3.0-4.0	....	....	....	....	2.0	1.8	....	....	....	....	....	....	1.0	1.3	....	....	....	....
00-4858	25.0-2.0-10.0	....	....	....	....	3.2	3.4	....	....	....	....	....	....	....	....	....	....	....	....
HOWARD JOHNSON'S ENTERPRISES INC., NEOSHO, MO																			
00-4705	32.0-3.0-8.0	....	....	....	....	3.4	4.0	....	....	....	....	....	....	3.0	3.2	....	....	....	....
00-4706	32.0-3.0-8.0	....	....	....	....	4.1	4.5	.02	.01	....	....	....	....	.10	.18	.05	.04	.05	.06
00-4708	30.0-4.0-6.0	....	....	....	....	2.0	2.8	....	....	....	....	....	....	2.0	2.0	....	....	....	....
00-4713	27.0-6.0-7.0	....	....	....	....	2.4	3.8	.04	.01*	....	....	....	....	1.0	1.1	.20	.06*	.20	.10*
00-4716	25.0-5.0-12.0	....	....	....	....	8.1	9.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4717	24.0-3.0-11.0	....	....	....	....	4.1	4.7	....	....	....	....	....	....	2.0	1.8	....	....	....	....
00-4718	23.0-3.0-8.0	....	....	....	....	2.0	1.9	....	....	....	....	....	....	....	....	....	....	....	....
00-4722	19.0-5.0-10.0	....	....	....	....	2.0	2.6	....	....	....	....	....	....	2.0	1.4*	....	....	....	....
00-4723	16.0-8.0-8.0	....	....	....	....	2.0	2.4	....	....	....	....	....	....	2.0	1.8	....	....	....	....
00-4724	15.0-3.0-5.0	....	....	....	....	1.6	1.7	....	....	....	....	....	....	....	....	....	....	....	....
HOWARD JOHNSON'S ENTERPRISES INC., NEOSHO, MO																			
00-4735	21.0-0.0-0.0	....	....	....	....	24.0	24.2	....	....	....	....	....	....	....	....	....	....	....	....
MC KALIUM, BANNOCKBURN, IL																			
00-1887	0.0-0.0-20.0	10.0	10.9	20.0	20.6
00-2132	0.0-0.0-22.0	10.8	11.7	22.0	22.1

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	
IMC KALIUM, BANNOCKBURN, IL																				
00-2134	0.0-0.0-50.0	17.0	17.8	
00-2387	0.0-0.0-22.0	11.0	11.8	22.0	22.1	
00-2388	0.0-0.0-22.0	....	....	11.0	11.8	22.0	21.9	....	....	....	....	....	....	....	....	....	....	....	....
00-2891	0.0-0.0-20.0	....	....	10.0	10.7	....	....	....	....	....	....	....	....	....	....	....	....	....	....
00-4729	0.0-0.0-22.0	....	....	10.8	11.6	22.0	22.7	....	....	....	....	....	....	....	....	....	....	....	....
00-4823	0.0-0.0-20.0	....	....	11.0	11.0	22.0	21.1	....	....	....	....	....	....	....	....	....	....	....	....
LANGE-STEGMANN FERTILIZER, ST. LOUIS, MO																				
00-2258	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3145	20.0-5.0-9.0	....	....	....	....	2.0	2.3	....	....	....	....	....	....	2.0	3.2	....	....	....	....
00-4353	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
LEBANON CHEMICAL CORPORATION, LEBANON, PA																				
00-2595	5.0-10.0-5.0	....	....	....	....	2.0	3.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4684	18.0-4.0-10.0	....	....	....	....	6.0	4.9*	....	....	....	....	....	....	.50	.56	.25	.21*	....	....
00-4695	5.0-5.0-20.0	....	....	....	....	5.0	6.0	....	....	....	....	....	....	....	....	....	....	....	....
LESCO, INC, ROCKY RIVER, OH																				
00-3060	18.0-24.0-12.0	....	....	....	....	4.8	5.4	....	....	....	....	....	....	....	....	....	....	....	....
00-3141	24.0-5.0-11.0	....	....	....	....	3.7	5.3	....	....	....	....	....	....	2.0	2.4	1.0	0.8*	....	....
00-3374	25.0-2.0-5.0	....	....	....	....	2.3	2.4	....	....	....	....	....	....	....	....	....	....	....	....
LITER FERTILIZER & CHEMICAL INC., CENTER, MO																				
00-3986	17.1-10.4-10.5	....	....	....	....	0.7	1.0	....	....	....	....	....	....	....	....	....	....	....	....
MADISON COUNTY FARM SUPPLY INC., FREDERICKTOWN, MO																				
00-2833	12.0-12.0-12.0	12.0	12.1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
00-3308	12.0-12.0-12.0	12.0	11.6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
00-4233	12.0-12.0-12.0	12.0	12.4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
MARTIN MARIETTA TECHNOLOGIES CORP, XENIA, OH																				
00-3009	0.0-0.0-0.0	....	....	58.0	60.0	....	....	....	....	....	....	....	....	....	....	....	....	....	....
MCCORD GIN COMPANY, GIDEON, MO																				
00-3973	21.0-0.0-0.0	....	....	....	....	24.0	23.9	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, BOONVILLE, MO																				
00-4049	8.1-20.9-28.3	0.90	1.34	3.6	4.778	.81
00-4534	6.5-16.6-38.6	....	....	....	....	....	....	.20	.34	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, BURLINGTON JCT, MO																				
00-2889	0.0-12.6-40.6	....	....	....	....	....	....	.72	.84	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, CHAFFEE, MO																				
00-3015	0.3-0.0-0.0	....	....	....	....	0.6	1.0	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, COLE CAMP, MO																				
00-1658	39.2-0.0-0.0	....	....	....	....	6.5	6.0	....	....	....	....	....	....	....	....	....	....	....	....
00-1665	20.1-10.0-20.1	....	....	....	....	4.0	3.5*	....	....	....	....	....	....	....	....	....	....	....	....
00-1666	16.4-16.4-21.8	....	....	....	....	2.7	3.2	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, ELSBERRY, MO																				
00-3801	20.0-10.0-10.0	8.1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, KAHOKA, MO																				
00-4754	20.0-7.5-25.0	1.20	1.52	1.2	1.3	.38	.43	
MFA AGRI SERVICES, LAPLATA, MO																				
00-2815	18.5-18.5-18.5	3.0	3.8	

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	
MFA AGRI SERVICES, LEVASY, MO																				
00-3981	6.5-12.9-13.0	3.9	4.052	.61
00-3992	17.1-8.0-5.0	....	....	....	....	1.5	1.7	....	....	....	....	....	....	....	....	....	....	....	.40	.41
00-3995	19.6-4.9-4.9	....	....	....	....	1.4	1.4	....	....	....	....	....	....	....	....	....	....	....	.20	.29
MFA AGRI SERVICES, LEXINGTON, MO																				
00-4755	13.5-13.4-26.7	....	....	....	....	8.0	8.4	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, MACON, MO																				
00-2130	0.0-14.0-40.5	....	....	....	....	....	....	.41	.47	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, MARYVILLE, MO																				
00-2312	9.5-24.5-24.5	....	....	....	....	4.9	4.9	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2325	6.0-15.0-15.0	....	....	....	....	2.0	2.2	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, MEXICO, MO																				
00-2314	9.1-16.1-32.3	....	....	....	....	3.2	3.8	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, NORBORNE, MO																				
00-3755	26.9-0.0-0.0	....	....	....	....	1.6	1.5	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, STE GENEVIEVE, MO																				
00-3540	25.0-10.0-15.0	....	....	1.3	.36*	2.6	0.9*	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, SALEM, MO																				
00-4822	0.0-11.5-40.7	....	....	.55	.83	1.1	1.4	.75	.71	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, SALISBURY, MO																				
00-2324	6.8-9.2-34.2	....	....	....	....	5.1	4.7	.09	.14	....	....	.09	.11	....	....	.44	.67	.44	1.0	
00-4048	8.4-21.6-29.1	....	....	....	....	0.6	1.6	....	....	....	....	....	....	....	....	....	....	1.8	1.6	
MFA AGRI SERVICES, SHELBYNA, MO																				
00-1613	7.0-25.3-26.8	....	....	....	....	1.9	2.0	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, SEDALIA, MO																				
00-2306	12.7-16.9-25.3	....	....	....	....	2.0	2.6	....	....	....	....	....	....	....	....	....	....	....	....	....
00-4539	4.4-3.3-45.0	....	....	....	....	4.2	5.0	.34	.36	....	....	....	....	....	....	....	....	.30	.39	
MFA AGRI SERVICES, WASHINGTON, MO																				
00-2734	20.6-0.0-20.1	....	....	....	....	4.5	4.9	.24	.27	....	....	....	....	....	....	....	....	....	....	....
MFA AGRI SERVICES, WINDSOR, MO																				
00-2561	23.8-13.9-15.4	....	....	.70	.89	1.3	1.9	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA PLANT FOODS, COLUMBIA, MO																				
00-2010	12.0-0.0-0.0	....	....	....	....	26.0	25.0	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2131	0.0-0.0-20.0	....	....	10.0	11.0	20.0	21.1	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2133	0.0-0.0-22.0	....	....	11.0	11.6	22.0	21.9	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2254	21.0-0.0-0.0	....	....	....	....	24.0	24.1	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2255	21.0-0.0-0.0	....	....	....	....	24.0	24.1	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2256	21.0-0.0-0.0	....	....	....	....	24.0	24.3	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2257	21.0-0.0-0.0	....	....	....	....	24.0	24.2	....	....	....	....	....	....	....	....	....	....	....	....	....
MFA PLANT FOODS, COLUMBIA, MO																				
00-2385	0.0-0.0-20.0	....	....	10.0	11.8	21.0	22.2	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2512	21.0-0.0-0.0	....	....	....	....	24.0	23.6	....	....	....	....	....	....	....	....	....	....	....	....	....
00-2556	21.0-0.0-0.0	24.0	23.3
00-3491	21.0-0.0-0.0	24.0	23.9
00-3975	21.0-0.0-0.0	24.0	23.9
00-4189	21.0-0.0-0.0	24.0	24.2

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	
MFA PLANT FOODS, COLUMBIA, MO																				
00-4190	21.0-0.0-0.0	24.0	23.7	
00-4756	13.0-13.0-13.0	10.0	10.7	
MFA PLANT FOODS, HAYTI, MO																				
00-2386	0.0-0.0-20.0	....	....	10.0	11.4	20.0	21.4	....	....	....	....	....	....	....	....	....	....	....	....
00-2511	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
00-2557	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....
00-3005	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
MID AMERICA ENVIRO AG SERVICES, CONCORDIA, MO																				
00-3265	13.2-0.0-0.0	....	....	....	....	2.6	2.2*	....	....	....	....	....	....	....	....	....	....	....	....
00-3317	4.5-21.3-32.9	....	....	....	....	3.8	4.6	....	....	....	....	....	....	....	....	....	....	....	....
00-4036	6.7-31.8-19.1	....	....	....	....	6.3	7.7	....	....	....	....	....	....	....	....	....	....	....	....
00-4587	7.4-9.8-34.5	....	....	....	....	5.4	5.3	....	....	....	....	....	....	....	....	....	....	.89	1.0
MIDWEST AGRI-CHEMICO, INC., CAPE GIRARDEAU, MO																				
00-2259	21.0-0.0-0.0	....	....	....	....	24.0	23.4	....	....	....	....	....	....	....	....	....	....	....	....
00-2558	21.0-0.0-0.0	....	....	....	....	24.0	22.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3494	21.0-0.0-0.0	....	....	....	....	24.0	24.1	....	....	....	....	....	....	....	....	....	....	....	....
00-3495	20.5-0.0-0.0	....	....	....	....	23.5	23.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4188	21.0-0.0-0.0	....	....	....	....	24.0	24.1	....	....	....	....	....	....	....	....	....	....	....	....
MIDWEST PLANT FOOD & SUPPLY, SPRINGFIELD, MO																				
00-2645	0.0-0.0-22.0	....	....	11.0	10.8	22.0	21.1	....	....	....	....	....	....	....	....	....	....	....	....
MILORGANITE DIVISION - MMSD, MILWAUKEE, WI																				
00-3395	6.0-2.0-0.0	....	....	....	....	....	....	....	....	....	....	....	....	4.0	6.4	....	....	....	....
00-3396	6.0-2.0-0.0	....	....	....	....	....	....	....	....	....	....	....	....	4.0	7.5	....	....	....	....
00-4725	6.0-2.0-0.0	....	....	....	....	....	....	....	....	....	....	....	....	4.0	7.0	....	....	....	....
MIRACLE-GRO LAWN PRODUCTS, INC., PORT WASHINGTON, NY																				
00-3353	31.0-3.0-9.0	....	....	....	....	3.5	4.8	....	....	....	....	....	....	2.0	2.8	....	....	....	....
00-3354	31.0-3.0-9.0	....	....	....	....	3.5	4.6	....	....	....	....	....	....	2.0	2.3	....	....	....	....
00-3355	31.0-3.0-9.0	....	....	....	....	3.5	4.2	....	....	....	....	....	....	2.0	2.8	....	....	....	....
00-3356	31.0-3.0-9.0	....	....	....	....	3.5	4.8	....	....	....	....	....	....	2.0	2.1	....	....	....	....
00-3368	27.0-3.0-6.0	....	....	....	....	3.0	3.1	....	....	....	....	....	....	....	....	....	....	....	....
00-4683	15.0-30.0-15.0	....	....	....	....	....	....	.02	.02	....	....	.07	.09	.15	.18	.05	.04	....	....
MO VALLEY AGRI SERVICE, ROCK PORT, MO																				
00-2331	5.0-27.0-27.052	.66
00-4356	19.0-5.0-5.0	....	....	....	....	1.4	1.3	....	....	....	....	....	....	....	....	....	....	....	....
MONROE COUNTY SERVICE CO., PARIS, MO																				
00-3980	5.8-13.7-17.6	....	....	....	....	1.7	1.8	....	....	....	....	....	....	....	....	....	....	....	....
MONTROSE AGRI SERVICE, MONTROSE, MO																				
00-3708	19.5-0.0-19.5	....	....	....	....	6.5	6.2	....	....	....	....	....	....	....	....	....	....	....	....
MRM AG SERVICE INC., EAST PRAIRIE, MO																				
00-3002	33.0-0.0-0.0	....	....	....	....	12.0	12.9	....	....	....	....	....	....	....	....	....	....	....	....
NA-CHURS/ALPINE SOLUTIONS, RED OAK, IA																				
00-4738	3.0-18.0-18.0	....	....	....	....	1.0	1.1	....	....	....	....	....	....	....	....	....	....	....	....
00-4739	9.0-18.0-9.0	1.0	1.1	
NATURAL FERTILIZER OF AMERICA, CANNON FALLS, MN																				
00-4727	5.0-2.0-4.0	2.0	3.3	2.0	1.9	

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_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
NATURAL FERTILIZER OF AMERICA, CANNON FALLS, MN																			
00-4728	4.0-6.0-4.0	2.0	4.3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
NIXA HARDWARE COMPANY, INC., NIXA, MO																			
00-4508	16.0-20.0-6.0	....	....	....	....	12.0	12.3	....	....	....	....	....	....	.50	.78	....	....	....	....
NORTHWEST FERTILIZER, INC., MOUND CITY, MO																			
00-3823	5.5-26.0-26.0	....	....	....	....	.97	1.9	....	....	....	....	....	....	....	....	....	....	1.9	2.0
OAKLEY MISSOURI INC., CARUTHERSVILLE, MO																			
00-2509	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
00-2510	21.0-0.0-0.0	....	....	....	....	24.0	24.1	....	....	....	....	....	....	....	....	....	....	....	....
00-3733	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3734	21.0-0.0-0.0	....	....	....	....	24.0	24.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3974	21.0-0.0-0.0	....	....	....	....	24.0	23.8	....	....	....	....	....	....	....	....	....	....	....	....
ORRICK FARM SERVICE, ORRICK, MO																			
00-2766	17.0-5.5-5.5	....	....	....	....	2.5	2.6	....	....	....	....	....	....	....	....	....	....	....	....
PILOT GROVE COOPERATIVE ELEVATOR, PILOT GROVE, MO																			
00-1726	26.5-16.0-0.0	....	....	....	....	4.0	4.7	....	....	....	....	....	....	....	....	....	....	....	....
PRODUCERS GRAIN CO-WALKER, EL DORADO SPRINGS, MO																			
00-3913	8.6-14.2-34.2	....	....	.72	1.18	1.4	2.3	....	....	....	....	....	....	....	....	....	....	....	....
PURSELL INDUSTRIES, INC., SYLACAUGA, AL																			
00-3352	31.0-2.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	1.2*	....	....	....	....
00-3394	15.0-2.0-3.0	....	....	....	....	....	....	.02	.03	....	....	.05	.07	3.0	3.7	.05	.11	.05	.28
00-3860	28.0-3.0-3.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.1	....	....	....	....
00-4112	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.7	....	....	....	....
00-4113	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	0.7*	....	....	....	....
00-4114	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.4	....	....	....	....
00-4115	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	1.2*	....	....	....	....
00-4116	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.5	....	....	....	....
00-4125	28.0-3.0-3.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	1.3*	....	....	....	....
00-4126	28.0-3.0-3.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.2	....	....	....	....
00-4280	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.9	....	....	....	....
00-4281	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	3.0	....	....	....	....
00-4282	29.0-3.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	2.0	2.0	....	....	....	....
QMI FERTILIZER & GRAIN, INC., PARMA, MO																			
00-3048	18.0-0.0-25.0	....	....	....	....	7.0	7.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3052	15.5-12.0-25.0	....	....	....	....	3.0	3.7	....	....	....	....	....	....	....	....	....	....	....	....
00-4387	19.0-14.0-18.0	....	....	....	....	4.0	5.2	....	....	....	....	....	....	....	....	....	....	....	....
RAY-CARROLL COUNTY GRAIN GROWERS, CARROLLTON, MO																			
00-3819	7.3-19.0-21.1	....	....	....	....	3.1	4.1	....	....	....	....	....	....	....	....	....	....	....	....
RAY-CARROLL COUNTY GRAIN GROWERS, NORBORNE, MO																			
00-2310	10.8-27.9-23.0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.66	.97
RICKETT'S FARM SERVICE INC., SALISBURY, MO																			
00-3744	21.1-7.0-7.0	....	....	....	....	1.4	1.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3745	21.2-5.6-8.4	....	....	....	....	1.4	1.9	....	....	....	....	....	....	....	....	....	....	....	....
00-3746	21.2-5.6-8.4	1.4	1.9
RICKETT'S FARM SERVICE, SHELBINA, MO																			
00-4020	26.0-12.0-13.0	2.0	2.8

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_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
ROLWING-MOXLEY CO., CHARLESTON, MO																			
00-3098	8.0-20.5-27.0	....	....	....	....	6.0	6.9	.30	.31	....	....	....	....	....	....	....	....	....	....
ROOTS INC., INDEPENDENCE, MO																			
00-3016	0.0-2.0-4.0	....	....	....	....	....	....	....	....	....	....	....	....	4.0	4.2	....	....	....	....
00-3018	0.0-5.0-8.0	....	....	....	....	....	....	....	....	....	....	....	....	8.0	8.1	....	....	....	....
00-3019	2.0-2.0-0.0	....	....	....	....	7.0	7.1	....	....	....	....	....	....	8.0	7.9	....	....	....	....
J.P. ROSS COTTON CO. INC.-FRISCO, ESSEX, MO																			
00-2812	21.0-5.5-23.0	....	....	....	....	2.5	3.3	....	....	....	....	....	....	....	....	....	....	....	....
00-2820	15.0-8.0-24.5	....	....	....	....	4.0	5.0	....	....	....	....	....	....	....	....	....	....	....	....
J.P. ROSS COTTON CO., INC, ESSEX, MO																			
00-2822	13.5-13.5-23.5	....	....	....	....	2.5	3.8	....	....	....	....	....	....	....	....	....	....	1.0	1.0
00-4224	17.5-11.5-21.0	....	....	....	....	3.0	4.4	....	....	....	....	....	....	....	....	....	....	....	....
ROYSTER-CLARK AGRIBUSINESS, INC., BOONVILLE, MO																			
00-1638	21.0-0.0-0.0	....	....	....	....	24.0	23.5	....	....	....	....	....	....	....	....	....	....	....	....
ROYSTER-CLARK AGRIBUSINESS, INC., CLARENCE, MO																			
00-4295	12.0-21.0-19.0	....	....	....	....	5.0	6.0	....	....	....	....	....	....	....	....	....	....	.50	.42*
SALISBURY AG CENTER, SALISBURY, MO																			
00-3097	8.3-22.0-29.5	....	....	....	....	0.2	2.6	....	....	....	....	....	....	....	....	....	....	....	....
00-3821	7.0-18.5-33.8	....	....	....	....	2.5	3.8	....	....	....	....	....	....	....	....	....	....	....	....
SCHULTZ COMPANY, BRIDGETON, MO																			
00-4673	9.0-10.0-15.0	....	....	.50	.36	....	....	....	....	....	....	.05	.04	.10	.09	.05	.03*	.05	.05
SCOTTS SIERRA HORTICULTURAL PRODUCTS, MARYSVILLE, OH																			
00-3053	15.0-16.0-17.0	....	....	....	....	....	....	.02	.01	....	....	.008	.006	.07	.06	.04	.03	.01	.01
SERVICE AND SUPPLY COOPERATIVE, INC., VANDALIA, MO																			
00-3800	5.4-21.9-32.9	....	....	....	....	2.0	2.5	....	....	....	....	....	....	....	....	....	....	....	....
SIMS AG-PRODUCTS INC., MT. GILEAD, OH																			
00-1639	0.0-0.0-0.0	....	....	....	....	12.0	11.7	....	....	....	....	....	....	....	....	....	....	31.0	30.0
SMITH BROS. FARM SUPPLY INC., WILLIAMSTOWN, MO																			
00-4246	4.2-18.9-33.5	....	....	....	....	....	....	.60	.74	....	....	....	....	....	....	....	....	....	....
SOUTHEAST COOPERATIVE SERVICE CO., DEXTER MO																			
00-2819	16.0-12.0-24.5	....	....	....	....	3.0	3.6	....	....	....	....	....	....	....	....	....	....	....	....
SOUTHEAST COOPERATIVE SERVICE CO., MOREHOUSE, MO																			
00-3056	11.0-18.0-23.5	....	....	....	....	4.5	6.3	....	....	....	....	....	....	....	....	....	....	....	....
SPECTRUM GROUP, DIV OF UNITED IND., ST. LOUIS, MO																			
00-3047	19.0-26.0-16.0	....	....	.50	.47	....	....	.02	.01	....	....	.05	.04	.10	.09	.05	.04	.05	.05
SUR-GRO PLANT FOOD, PLATTSBURG, MO																			
00-3735	21.0-0.0-0.0	....	....	....	....	24.0	23.0	....	....	....	....	....	....	....	....	....	....	....	....
SUR-GRO PLANT FOOD, SAVANNAH, MO																			
00-3954	26.0-10.0-6.5	....	....	....	....	1.7	2.0	....	....	....	....	....	....	....	....	....	....	....	....
THE ANDERSONS LAWN FERTILIZER DIV., MAUMEE, OH																			
00-3350	30.0-3.0-4.0	....	....	....	....	4.5	5.3	....	....	....	....	....	....	1.0	1.2	....	....	....	....
00-3606	10.0-20.0-10.0	....	....	....	....	....	....	....	....	....	....	....	....	.10	1.7	....	....	....	....
00-4563	24.0-4.0-14.0	....	....	....	....	2.7	2.9	....	....	....	....	....	....	1.0	1.0	....	....	....	....
THE SCOTTS COMPANY, MARYSVILLE, OH																			
00-3160	16.0-25.0-12.0	3.0	4.0
00-3365	28.0-4.0-6.0	2.2	2.5

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_ SECONDARY AND MICRONUTRIENTS IN FERTILIZER

Lab No. 00#	Grade	% Ca		% Mg		% S		% B		% Cl		% Cu		% Fe		% Mn		% Zn	
		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
THE SCOTTS COMPANY, MARYSVILLE, OH																			
00-3387	21.0-3.0-3.0	....	....	....	....	2.5	4.0	....	....	....	....	....	....	....	....	....	....	....	....
00-3390	20.0-3.0-4.0	....	....	....	....	2.5	2.8	....	....	....	....	....	....	....	....	....	....	....	....
00-3391	20.0-3.0-4.0	....	....	....	....	2.5	2.6	....	....	....	....	....	....	....	....	....	....	....	....
00-3393	19.0-2.0-15.0	....	....	2.0	2.2	7.5	9.6	.02	.02	....	....	....	....	.10	.09	.05	.04	.05	.05
00-4084	31.0-3.0-10.0	....	....	....	....	....	....	....	....	....	....	....	....	1.0	1.0	.50	.74	....	....
00-4085	30.0-3.0-3.0	....	....	....	....	4.5	6.6	....	....	....	....	....	....	1.8	2.0	.90	1.1	....	....
00-4088	30.0-3.0-4.0	....	....	....	....	8.5	8.5	....	....	....	....	....	....	....	....	....	....	....	....
00-4089	30.0-3.0-4.0	....	....	....	....	8.5	8.1	....	....	....	....	....	....	....	....	....	....	....	....
00-4090	30.0-3.0-4.0	....	....	....	....	8.5	8.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4091	30.0-3.0-4.0	....	....	....	....	8.5	8.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4092	30.0-3.0-4.0	....	....	....	....	8.5	8.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4093	30.0-3.0-4.0	....	....	....	....	8.5	8.1	....	....	....	....	....	....	....	....	....	....	....	....
00-4094	30.0-3.0-4.0	....	....	....	....	8.5	8.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4095	30.0-3.0-4.0	....	....	....	....	8.5	8.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4264	30.0-3.0-3.0	....	....	....	....	4.5	6.5	....	....	....	....	....	....	1.8	2.1	.90	1.1	....	....
00-4265	30.0-3.0-3.0	....	....	....	....	4.5	6.8	....	....	....	....	....	....	1.8	2.1	.90	1.0	....	....
00-4266	30.0-3.0-3.0	....	....	....	....	4.5	6.8	....	....	....	....	....	....	1.8	2.1	.90	.89	....	....
00-4267	30.0-3.0-4.0	....	....	....	....	8.5	8.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4268	30.0-3.0-4.0	....	....	....	....	8.5	8.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4641	29.0-3.0-4.0	....	....	....	....	6.0	7.9	....	....	....	....	....	....	1.0	1.0	.50	.68	....	....
00-4642	29.0-3.0-4.0	....	....	....	....	6.0	8.8	....	....	....	....	....	....	1.0	1.2	.50	.45	....	....
00-4712	27.0-3.0-4.0	....	....	....	....	9.0	10.1	....	....	....	....	....	....	2.0	2.1	....	....	....	....
00-4719	22.0-0.0-6.0	....	....	....	....	3.0	3.0	....	....	....	....	....	....	....	....	....	....	....	....
00-4777	29.0-3.0-4.0	....	....	....	....	6.0	8.0	....	....	....	....	....	....	1.0	1.2	.50	.64	....	....
TRI COUNTY FEED & FERTILIZER INC., ST MARY, MO																			
00-4400	3.1-8.0-24.0	....	....	....	....	2.9	2.1*	....	....	....	....	....	....	....	....	....	....	....	....
00-4402	2.0-5.5-17.0	....	....	....	....	1.3	0.8*	....	....	....	....	....	....	....	....	....	....	....	....
TRUSERV CORPORATION, MAUMEE, OH																			
00-4709	29.0-3.0-4.0	....	....	....	....	3.5	4.4	....	....	....	....	....	....	1.0	1.0	....	....	....	....
UNITED SUPPLIERS INC., ELDORA, IA																			
00-3754	12.0-0.0-0.0	....	....	....	....	26.0	25.7	....	....	....	....	....	....	....	....	....	....	....	....
UNITED SUPPLIERS INC., ST. JOSEPH, MO																			
00-1748	21.0-0.0-0.0	....	....	....	....	24.0	23.7	....	....	....	....	....	....	....	....	....	....	....	....
VAN DIEST SUPPLY COMPANY, MARSHALL, MO																			
00-2261	0.0-0.0-0.0	....	....	....	....	90.0	89.6	....	....	....	....	....	....	....	....	....	....	....	....
VANDUSER GIN CO INC., VANDUSER, MO																			
00-3652	15.0-12.0-23.0	....	....	....	....	1.5	2.4	....	....	....	....	....	....	....	....	....	....	....	....
VOLUNTARY PURCHASING GROUPS, BONHAM, TX																			
00-3156	18.0-6.0-12.0	....	....	....	....	....	....	.02	.01	....	....	.05	.05	.25	.96	.05	.05	.05	.03*
00-3162	9.0-13.0-7.0	....	....	....	....	....	....	.02	.02	....	....	.05	.05	.10	2.0	.05	.06	.05	.06
00-3163	9.0-13.0-7.0	....	....	....	....	....	....	.02	.03	....	....	.05	.06	.10	2.2	.05	.07	.05	.05
00-3164	9.0-13.0-7.0	....	....	....	....	....	....	.02	.01	....	....	.05	.04	.10	2.1	.05	.06	.05	.04
00-3165	9.0-13.0-7.0	....	....	....	....	....	....	.02	.02	....	....	.05	.04	.10	2.0	.05	.06	.05	.05
00-3364	28.0-4.0-4.002	.0105	.04	.10	.57	.05	.05	.05	.05
00-3380	25.0-4.0-4.002	.0105	.03*	.10	.85	.05	.04	.05	.03*

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		G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F	G	F
VOLUNTARY PURCHASING GROUPS, BONHAM, TX																			
00-3381	25.0-4.0-4.002	.0205	.05	.10	.91	.05	.05	.05	.05
00-3382	25.0-4.0-4.0	....	....	....	....	....	....	.02	.01	....	....	.05	.05	.10	1.0	.05	.05	.05	.05
00-4651	28.0-4.0-4.0	.05	.05	....	....	....	....	.02	.02	....	....	....	....	.10	.47	.05	.04	.05	.04
00-4653	25.0-4.0-4.0	....	....	....	....	....	....	.02	.02	....	....	.05	.05	.10	.59	.05	.04	.05	.04
00-4655	20.0-3.0-3.0	.05	.25	....	....	....	....	.02	.01	....	....	....	....	....	....	.05	.03*	.05	.01*
00-4841	7.0-22.0-8.0	....	....	....	....	....	....	.02	.03	....	....	.05	.08	.10	2.2	.05	.09	.05	.08
00-4846	9.0-13.0-7.0	....	....	....	....	....	....	.02	.02	....	....	.05	.05	.10	1.5	.05	.05	.05	.04
00-4857	28.0-4.0-4.0	....	....	....	....	....	....	.02	.02	....	....	.05	.05	.10	.61	.05	.05	.05	.04
WEST CENTRAL AGRISERVICES, LLC., PLEASANT HILL, MO																			
00-2968	23.7-9.4-9.4	....	....	....	....	4.7	5.3	....	....	....	....	....	....	....	....	....	....	....	....
00-4041	12.4-31.8-15.9	....	....	....	....	4.5	5.4	....	....	....	....	....	....	....	....	....	....	....	....
00-4042	12.4-31.8-15.9	....	....	....	....	4.5	4.8	....	....	....	....	....	....	....	....	....	....	....	....
WILFARM, LLC., KANSAS CITY, MO																			
00-3007	0.0-0.0-0.0	....	....	....	....	90.0	91.2	....	....	....	....	....	....	....	....	....	....	....	....
WILFARM, LLC., LA MONTE, MO																			
00-3008	0.0-0.0-0.0	....	....	....	....	10.0	10.1	....	....	....	....	....	....	....	....	....	....	....	....
YOCUM FERTILIZER, INC., FAIRFAX, MO																			
00-3994	19.5-4.5-4.5	....	....	....	....	1.2	1.2	....	....	....	....	....	....	....	....	....	....	....	....
00-4364	20.5-0.0-2.5	....	....	....	....	1.4	1.4	....	....	....	....	....	....	....	....	....	....	....	....
YOCUM SERVICE, INC., MOUND CITY, MO																			
00-3742	18.0-6.0-6.0	....	....	....	....	1.5	1.8	....	....	....	....	....	....	....	....	....	....	....	....
YOUNG'S AG SERVICE, INC., KEYTESVILLE, MO																			
00-3737	3.0-5.5-17.5	2.0	2.8
00-3758	30.5-0.0-0.0	1.0	1.5

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Soil Testing – Fall is a Good Time to Test Your Soil

High crop yields coupled with efficient production bring high farm returns. However, high yielding crops require large amounts of plant nutrients. With the weather conditions that existed in Missouri during this year's growing season, many farmers had a bumper corn harvest, with yields higher than targeted. This means more nutrients have been removed from the soil to attain these higher yields. So it is important to test the soil and find out its nutrient status, and apply fertilizer and other soil amendments accordingly. Soil testing serves as the best guide for the efficient use of fertilizer and soil amendments. A soil test is an inventory of the nutrients available to plants detecting which nutrients are too high, too low or just right.

Soil can be tested at any convenient time, but it is done primarily in the fall after harvest. Testing soil in fall leaves enough time to get the analysis back from the laboratory and make plans for next growing season. For consistency, it is a good idea to sample soils at about the same time each year and following the same crops in rotation. Also, the soil is likely to be easier to sample in the fall than in the spring when winter and spring rains will have made fields wet to the point that obtaining a good sample becomes difficult. There should be little if any change in nutrient levels during winter.

Soil testing is strongly recommended for field crops. The cost of soil testing is relatively minor in comparison to the cost of seed, fertilizer, lime, machinery and labor. Correcting a problem before planting is much simpler and cheaper than afterwards. Fields should be sampled periodically to monitor changes in soil nutrients so that nutrient applications can be adjusted accordingly. For example, many nitrogen fertilizers tend to lower soil pH, and after several years of fertilization the pH may become undesirably low.

Soil testing is also a very useful tool in diagnosing plant growth problems. When problems related to poor growth such as weather extremes or pests can be eliminated, soil testing is the next logical step to diagnose the problem. Yellowing plants, stunted growth or poor seed set are all commonly observed symptoms, which are potentially caused by soil nutrient deficiencies.

If soil testing doesn't clarify a problem, plant testing may offer additional clues by determining the nutrient status of the plant. During this year's growing season the University of Missouri Soil Testing Laboratory received several corn and soybeans samples that tested low in potassium. Most of the fields that showed potassium deficiency had either very low or medium levels of potassium in the soil test. The drought conditions that prevailed early in the growing season enhanced potassium deficiency symptoms in crops. Potassium is a semi-mobile element that is taken up by the plants roots by the processes of mass flow and diffusion. Drought conditions limited root growth and thereby the uptake of this nutrient.

A soil sample is most effective when it accurately represents the area of the soil being sampled. Composite samples of several individual samples within a field area are a good way to obtain representative samples. Collect small cores of soil to plow depth (6 ¾" to 7") from 15 to 20 random spots for every 20 acres. If possible, use a commercial soil probe or auger. Pails used to hold soil should be clean and made of plastic or non – galvanized metal, especially if you are sampling for micronutrients to avoid contamination. Mix soil thoroughly in the pail, crushing clods and removing stones and crop residues. Do not include soil from both high yielding areas and low yielding areas in the same composite sample, as recommendations for these areas

would vary. Avoid sampling areas close to gravel or paved roads, dead furrows, or highly eroded knolls.

In long-term, no-till fields, you should take a separate sample of the surface 2 inches of soil for soil acidity measurements. Soil pH may drop rapidly in the surface soil and reduce some herbicides' activities. A lower rate of limestone to reduce the acidity of the surface 2 inches of the soil is necessary if acidity becomes a problem. Be sure to record sampling depth on the information form when you take depths of less than 6 inches.

Sampling every three to five years is sufficient for most soils. You may need to sample sandy soils more frequently, as nutrient levels may change rapidly. This is particularly true with crops that remove large quantities of potassium such as silage corn and alfalfa. Irrigated fields need to be sampled every two to three years.

Testing your soil for nutrients and pH is important to provide a balanced application of nutrients, while avoiding over application. The University of Missouri Soil Testing Laboratory offers a regular fertility test, which includes measurements of pH, lime requirement, organic matter, available phosphorus, potassium, calcium, magnesium, cation exchange capacity and fertilizer recommendations. Soil pH greatly influences plant nutrient availability. Adjusting pH can often correct the nutrient problem. The optimum pH for most plants is between 6.0 and 7.0. The lime requirement measurement indicates the amount of lime necessary to correct a low pH problem. Organic matter has several roles in the soil, one of which is the supply of nitrogen. Nitrogen recommendations are based on the organic matter level. Phosphorus, potassium, calcium, and magnesium are all essential plant nutrients. Cation exchange capacity (CEC) is a measure of the soil's ability to hold nutrients.

Test costs vary according to the number of nutrients tested. The University of Missouri Soil Testing Laboratory charges \$9.00 (when submitting direct to the lab) for a regular fertility test. Several other specific analyses are available. These analyses include but are not limited to soil analysis for sulfur, micro-nutrients (zinc, iron, copper, manganese, boron), salt content (electrical conductivity), and soil texture, and testing for greenhouse media and potting soil, compost and water. If you are taking grid samples for precision agriculture, we offer volume discounts. Results can be also electronically mailed in a comma delimited or spreadsheet format. We also now offer the option to access results from the soil testing lab web site with an assigned password.

Contact your Regional Agronomy/Horticulture/Natural Resources Specialist or local Extension Office to obtain Sample Information Forms and sample boxes. Samples can be submitted through their offices. Regional Specialists at local Extension Offices can be a source of information for interpreting and personalizing your soil test reports and recommendations. Samples can also be submitted directly to the University of Missouri Soil Testing Laboratory at 23 Mumford Hall, Columbia, MO 65211 (Tel: 573-882-0623) or at the Delta Soil Testing Laboratory, Delta Center, Portageville, MO 63873 Tel: 573-379-5431. Visit our web site at <http://www.soiltest.psu.missouri.edu/> to get additional information on how to submit a soil samples to MU Soil & Plant Testing Laboratory. This web page provides details on all the services provided by MU Soil Testing Laboratory to clients.

Manjula Nathan, Extension Asst. Professor/Director, University of Missouri Soil and Plant Testing Laboratory, 23 Mumford Hall, Columbia, MO 65211 Tel: (573) 882-3250; email:nathanm@missouri.edu

Why is Fineness of Grind Important in Liming Materials?

J. R. Brown
Emeritus Professor of Soil Fertility
University of Missouri

Agricultural limestone or liming material is used by Missouri farmers and homeowners to eliminate the bad effects of excess soil acidity. The value of liming material in reducing soil acidity depends upon the properties of the liming material as well as field factors such as rate of application, means of incorporation into the soil, and soil characteristics such as kind and amount of clay. Two important measures of the acid neutralizing value of liming material are calcium carbonate equivalent (CCE) and the distribution of particle sizes or fineness of grind. All vendors of liming material sold in Missouri are required by law to provide the buyer quality information based upon CCE and fineness of grind.

Calcium carbonate equivalent expresses the purity of the liming material relative to that of pure CaCO_3 and is determined by measurement of the amount of strong acid neutralized by a known quantity of finely ground liming material. The purity (CCE) does not indicate effectiveness in the field but only that amount of neutralizing ability present in the material. The rules adopted for implementing the Missouri Agricultural Liming Materials Law specify a minimum CCE of 65% (6 CSR 250.10.020(2)).

Liming materials vary in solubility with quick lime (CaO) being very soluble relative to CaCO_3 . Magnesium carbonate (MgCO_3) or materials containing MgCO_3 , such as dolomitic limestone, are even more insoluble (slower to dissolve) than CaCO_3 .

Particle size considerations are included in the lime law to indicate the potential reactivity of the limestone. A minimum of 90% passing the 8-mesh sieve is required by the Missouri lime law [MoRS 266.505 (1)] for the material to be sold as agricultural limestone. Much of the field research done in calibrating limestone applications to plant growth indicated that limestone particles larger than 8-mesh have relatively little effect in changing soil acidity in a 3 to 4 year period (Barber, 1984).

Particle size and solubility determines the rate of reaction of liming materials when placed in acid soil. **Small particle sizes are most effective in neutralizing soil acidity; because, the finer the particles, the more surface area exposed per weight of material.** For example, if one has a 1' x 1' x 1' solid cube of liming material it would have 864 sq. in. of surface area (6 sides times 144 sq. in. per side). Cut that cube into 8 solid cubes each 0.5' x 0.5' x 0.5' doubles the exposed surface area of the material. Finer particles expose more surface area per given weight of limestone.

The particle size distribution of liming material is determined by screening a sample through one or more sieves of varying mesh size. In Missouri, the sieve sizes used are 8-, 40-, and 60-mesh meaning that there are 8, 40, and 60 openings per linear inch. The sieves are nested with the coarsest sieve at the top where the sample is placed. The nest of sieves is covered and a collection pan is placed below the 60-mesh sieve. After shaking the nest of sieves the material held on each screen is weighed and expressed as a percentage of the weight of the entire sample. These percentages are expressed as a value of the effectiveness of each as shown in the table below. The cumulative total of these values makes up the term Fineness Factor.

Screen size	Example Effectiveness	Quantity Weighting	Fineness Factor
Held on the 8-mesh sieve	0%	2%	0
Passed the 8-mesh, held on the 40-mesh	25%	14%	3.5%
Passed the 40-mesh, held on the 60-mesh	60%	34%	20.4%
Passed the 60-mesh	100%	50%	50.0%
Total		100%	73.9%

The weightings placed on the different particle size groups were selected based upon research reports published in literature and extension publications principally from the north central states in the United States.

The material included Missouri results. In general, particle size weightings were selected that provided an estimate of the effect of particle size on the neutralizing ability of limestone over a 3 to 4 year period after application **when incorporated** into the upper 6 or so inches of soil in crop production fields. A review by Barber (1984) provided much of the availability information and would be a good reference to use to understand the complexity of providing an broad based estimate of the neutralizing ability of agricultural limestones.

Surface area is important in liming material because dissolution of sparingly soluble materials occurs from the particle surface inward. Furthermore, the solution products of liming materials will move away from the liming material particle only a small distance regardless of size of particle (Stevens, 1990). Thus, to counteract reserve soil acidity many small particles in a volume of soil will be more effective than a few larger particles of the same weight per unit of soil. In actual practice there are some negatives to very finely ground materials. First, the added grinding to get very fine particles adds to the cost of the limestone. Also, care must be taken in transporting and spreading dry fine material because wind easily transports finely ground solids and may cause accidents on highways to the field and will result in unequal spreading over the field.

The purity factor (CCE) and the fineness factor are combined to provide an index of the quality of a given sample of agricultural liming material and are reported in Missouri as Effective Neutralizing Material per ton (ENM/ton). In the fineness sample given above the total fineness factor was 73.9% which is the estimate of the fraction of neutralizing ability of the example limestone that will be effective over a 3 to 4 year period. If we assume that the CCE of the example is 92% the calculation of the ENM/ton is

$$\text{ENM/ton} = 0.92 \times 0.739 \times 800 = 544.$$

Note: the 800 in the equation is the pounds of calcium in 1 ton (2,000 pounds) of pure CaCO_3 .

One of the earliest guides to proper liming of acid soils was to mix the liming materials with the soil months ahead of planting an acid intolerant crop to allow acid neutralization to occur. The finer portion of the liming material (<60-mesh) would be expected to fully dissolve in a few weeks when mixed with acid soil. The larger particle sizes would provide staying power; that is, they would continue to dissolve over time to maintain the target level of acidity for 3 to 4 years. Now that minimum tillage is widely used the rates of limestone likely need to be reduced and the frequency of application increased. This would be especially true if fertilizers are surface applied and not incorporated to plow depth (6 to 8 inches).

At this writing the lime requirements based upon Missouri soil tests are reported in terms of ENM per acre and assume application and incorporation of agricultural lime into a plow layer of 6 to 7 inches. Adjustments to this base value are needed for reduced tillage in crop production and pasture and meadow forage programs. Use of liming materials completely passing a 60-mesh sieve requires more frequent testing for soil acidity buildup because there are no larger particles of liming material to counteract slow acidity build up from acidic precipitation, crop removal and fertilization. Also, increasing the soil pH above 7.0 is undesirable as nutrient availability and herbicide effectiveness may be adversely affected.

In conclusion, agronomists recognize that for most quarry operators aggregate is the product of interest and agricultural limestone is, at best, a sideline and, at worst, a waste product. However, particle size of liming materials is important in Missouri agriculture. Crop production is an acidifying activity which accelerates the natural tendency of soils to become more acid in humid regions. Good liming practices are based upon proper weighting of both fine (<60-mesh) and coarser (8 to 60-mesh) agricultural limestone particles to prevent both under- and over-liming soils.

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REPORT CONTENTS

	Page
1. Bagged Fertilizer	1
2. Bulk Dry Fertilizer	6
3. Bulk Blend Fertilizer	20
4. Liquid Fertilizer	35
5. Secondary and micronutrient sample analysis	39
6. Soil Testing - Fall is a Good Time to Test Your Soil by Dr. Manjula Nathan	52
7. Why is Fineness of Grind Important in Ag Liming Materials by Dr. J.R. Brown	54

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