



# PLANT & TISSUE GUIDELINES - TURFGRASS

Logan Labs, 620 North Main Street, Lakeview, OH 43331  
 937-842-6100 | www.loganlabs.com

## REDTOP

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	3.3	Fe	590	Na	232
P	0.32	Mn	128	Al	503
K	2.03	B	10		
Ca	0.57	Cu	22		
Mg	0.37	Zn	37		
S	no data	Mo	0.3		

Cultivars Sampled - Species Only

## CREEPING BENTGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.40-8.30	Fe	99-500	Na	505-2264
P	0.20-0.55	Mn	30-160	Al	63-408
K	0.86-2.55	B	5-24		
Ca	0.21-0.50	Cu	9-40		
Mg	0.09-0.22	Zn	5-60		
S	0.23-0.39	Mo	0.50-1.00		

Cultivars Sampled - Not Specified



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## COLONIAL BENTGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	3.9	Fe	179	Na	367
P	0.46	Mn	83	Al	74
K	3.02	B	6		
Ca	0.36	Cu	19		
Mg	0.25	Zn	50		
S	no data	Mo	1.25		

Cultivars Sampled - Species Only

## BERMUDAGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.30-5.00	Fe	50-500	Na	500-850
P	0.15-0.50	Mn	25-300	Al	100-1150
K	1.00-4.00	B	6-30		
Ca	0.35-1.00	Cu	5-50		
Mg	0.13-0.50	Zn	20-250		
S	0.15-0.50	Mo	0.10-1.20		

Cultivars Sampled - Not Specified



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## KENTUCKY 31, TALL FESCUE

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	5.4	Fe	354	Na	452
P	0.51	Mn	71	Al	393
K	3.7	B	9		
Ca	0.49	Cu	34		
Mg	0.35	Zn	47		
S	no data	Mo	1.05		

Cultivars Sampled - Kentucky 31

## CREEPING RED FESCUE

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	no data	Fe	265	Na	95
P	0.34	Mn	54	Al	224
K	2.62	B	6		
Ca	0.39	Cu	20		
Mg	0.24	Zn	30		
S	no data	Mo	1.72		

Cultivars Sampled - Species Only



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## PERENNIAL RYEGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	3.34-5.10	Fe	97-934	Na	229-1107
P	0.35-0.55	Mn	30-73	Al	52-992
K	-3.42	B	17-May		
Ca	0.25-0.51	Cu	Jun-38		
Mg	0.16-0.32	Zn	14-64		
S	0.27-0.56	Mo	0.50-1.00		

Cultivars Sampled - Not Specified

## KENTUCKY BLUEGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.51-5.10	Fe	102-182	Na	100-884
P	0.27-0.40	Mn	18-37	Al	25-179
K	1.73-3.00	B	6-8		
Ca	0.27-0.58	Cu	8-33		
Mg	0.13-0.16	Zn	19-88		
S	0.18-0.24	Mo	0.82-1.77		

Cultivars Sampled - Not Specified



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## ROUGH BLUEGRASS 'LASER'

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.67	Fe	127-241	Na	506-570
P	0.25-0.40	Mn	91-98	Al	184-408
K	2.48-2.77	B	10-12		
Ca	0.66-0.72	Cu	3-5		
Mg	0.25-0.28	Zn	38-43		
S	0.44-0.48	Mo	0.02-1.16		

Cultivars Sampled - Laser

## ST. AUGUSTINEGRASS

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	1.90-3.00	Fe	50-300	Na	no data
P	0.20-0.50	Mn	40-250	Al	no data
K	2.50-4.00	B	5-10		
Ca	0.30-0.50	Cu	10-20		
Mg	0.15-0.25	Zn	20-100		
S	no data	Mo	no data		

Cultivars Sampled - Not Specified



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## ZOYSAGRASS 'MEYER'

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.4	Fe	230	Na	200
P	0.2	Mn	29	Al	146
K	1.45	B	6		
Ca	0.29	Cu	17		
Mg	0.13	Zn	35		
S	no data	Mo	177		

Cultivars Sampled - Meyer

## TALL FESCUE

Survey Average

Macronutrients	%	Micronutrients	ppm	Nonessential Elements	ppm
N	2.40-4.55	Fe	83-167	Na	777-890
P	0.34-0.50	Mn	54-74	Al	56-225
K	3.00-4.00	B	15-20		
Ca	0.40-0.45	Cu	9-15		
Mg	0.24-0.29	Zn	20-64		
S	0.40-0.44	Mo	0.69-1.21		

Cultivars Sampled - Not Specified