Turfgrass Nitrogen and Phosphorus Recommendations

(adapted from Soil Test Interpretations and Fertilizer Management for Lawns, Turf, Gardens, and Landscape Plants, University of Minnesota, 2008)

Nitrogen is based mostly on soil properties (N supplying ability), management and grass species not soil nitrate.					Phosphorus on turfgrass (maximum annual application)	
			Imperial Units			
Nitrogen on turfgrass annual application (Ib N/1000 ft ²)				Γ	Olsen-P (ppm)	amount of phosphate to apply Ibs P ₂ O ₅ / 1000 sq.ft.
	soil organic matter level ^z				established turf	
	low	medium to high	organic soil (peat)	Γ	0-7	1
irrigated					8-18	0.5
clippings removed	4.0	3.0	2.0		over 18	0
clippings not removed	3.0	2.0	1.0		new turfgrass planting (includes over seeding)	
not irrigated					0-7	5
clippings removed	2.0	1.0	0.5		8-18	2
clippings not removed	1.0	0.5	0.25		over 18	1

^z low organic matter is < 3.1%; medium to high is 3.1 to 19%; organic soil is >19%

Metric Units

Nitrogen on turfgrass annual application (kg N/100 m²)

_	soil organic matter level ^z				
	low	medium to high	organic soil (peat)		
irrigated					
clippings removed	1.96	1.47	0.98		
clippings not removed	1.47	0.98	0.49		
not irrigated					
clippings removed	0.98	0.49	0.25		
clippings not removed	0.49	0.25	0.12		
^z low organia mottor in < 2.19/	· modium to hi	ah ia 2 1 ta 10% : araoni	a = 10%		

^z low organic matter is < 3.1%; medium to high is 3.1 to 19%; organic soil is >19%

Olsen-P (ppm)	amount of phosphate to apply			
	kg P ₂ O ₅ / 100 m ²			
established turf				
0-7	0.49			
8-18	0.25			
over 18	0			
new turfgrass planting (includes over seeding)				
0-7	2.45			
8-18	0.98			
over 18	0.49			