# Nutrient Management Plan

Tidewater CC/Portsmouth Campus

Prepared For:

Bert Thompson 121 College Place Norfolk, VA 23510 757-822-1715

Prepared By:

Christy F. Smith 3160 Jacobia Lane Cape Charles, VA 23310 757-678-6129

Certification Code: 297

Total Acreage: 5 ac

The purpose of this Nutrient Management Plan is to ensure minimum movement of nitrogen and phosphorus from the specified area of application to surface and groundwaters where they can potentially have a detrimental effect on water quality as well as ensuring that plants have optimum soil nutrient availability for good productivity and quailty. By following this soil test based plan you are helping to protect local waters and the Chesapeake Bay.

If you have questions, please contact your plan writer, local Virginia Cooperative Extension



# Nutrient Management Plan for:

# Tidewater CC/Portsmouth Campus

	Landowner Information						
Company Name	Tidewater CC/Portsmouth Campus						
Customer Name	Bert Thompson						
Mailing Address	121 College Place						
City State Zip	Norfolk, VA 23510						
Phone	757-822-1715						
Email	bthompson@tcc.edu						

Planners Information						
Planner Name	Christy F. Smith					
Mailing Address	3160 Jacobia Lane					
City State Zip	Cape Charles, VA 23310					
Phone	757-678-6129					
Fax	757-331-3957					
Email	christy@smithagronomic.com					
Certification Code	297					

	Location Information							
Physical Address 120 Campus Drive								
City State Zip Portsmouth, VA 23701								
Coordinates	36.80620							
Please Use NAD 83 Deg Min Sec	-76.34858							
VAHU6 Watershed Code	JL53							
County	Portsmouth							

	Square Footage						
Total	217,800 sq ft/5 ac						
Area 1	104,544 sq ft						
Area 2	113,256 sq ft						
Area 3							
Area 4							

Plan Start Date	7/1/21
Plan End Date	7/1/24
	11-11

Planner Signature

## Narrative

Tidewater Community College (TCC) agrees to comply with all the requirements set forth in the Nutrient Management Training and Certification Regulations, 4 VAC 50-85 et seq., and to follow recommendations for turf fertilization and management as described in the Virginia Nutrient Management Standards and Criteria, Revised July 2014. This includes implementing the Department of Conservation and Recreation's approved Nutrient Management Plan and maintaining fertilization records. All nutrient applications performed by TCC staff shall comply with the provisions of this Nutrient Management Plan upon receipt of the approved plan. Soil testing is recommended at least once every three years. This plan is effective for 3 years, expiring 7/1/2024 or until any major renovation or major changes to maintenance practices occur which effects the fertilized/lime areas.

TCC is a two-year higher education institution in South Hampton Roads with campuses in Norfolk, Chesapeake, Portsmouth, and Virginia Beach. TCC recognizes the importance of nutrient management as a fundamental way to protect water quality.

Fertilized turf is comprised of a mix of warm season and cool season grass but is managed to encourage warm season establishment and growth. Bermudagrass is dominate in turf areas adjacent to recent construction. TCC does not overseed warm season turf areas. The primary sources of irrigation water at each campus originates from onsite wells and/or stormwater collection basins. Irrigation water is used to maintain the turf areas and/or landscape beds adjacent to high profile areas on each campus. Landscape beds are located on each campus but do not receive any additional nutrients aside from what is applied to the adjacent turf. The TCC grounds are less intensively managed, receiving no more than two fertilizer applications annually. Within the boundaries of each campus, TCC maintains turf areas that do not receive fertilization or irrigation. The unfertilized portions of each campus are not included in this plan.

Nutrient applications prohibited on frozen/snow covered ground.

The Portsmouth Campus of TCC consists of 30 acres but only 5 acres are fertilized. The Portsmouth Campus includes Tomotley soil type which is environmentally sensitive. Special attention should be given to the timing of fertilizer applications to avoid nutrient loss due to flooding and seasonal high water tables.

Google Maps 120 Campus Dr

TCC Portsmouth Campus

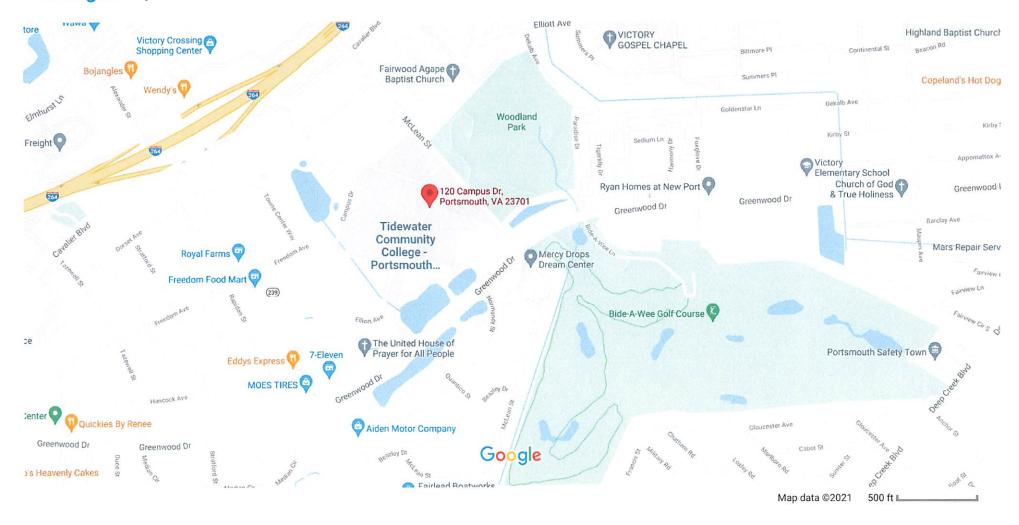


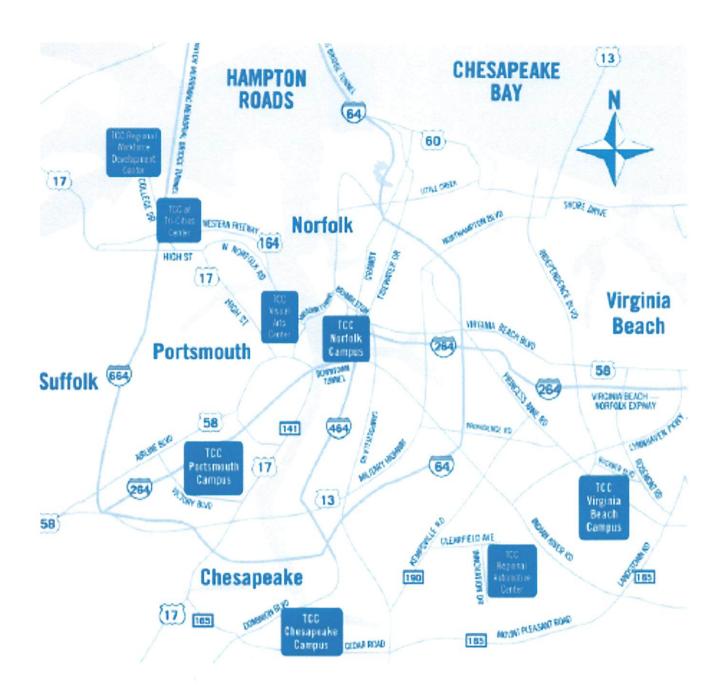
Imagery ©2021 Commonwealth of Virginia, Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2021 200 ft

Fertilized Area 1 Ports mouth 1 104,544 sq ft.

Fertilized Area 2 Ports mouth 2 113,256 sq. ft.

# Google Maps 120 Campus Dr





# Norfolk Campus

Map Unit	Soil Series
27	Urban



# Virginia Beach Campus

Map Unit	Soil Series
1 .	Acredale*
2	Acredale*-Urban Complex
40	Urban

<sup>\*</sup>Environmentally Sensitive Soil/Site



**HWY** 

DEC 8, 2020

21.31 Acres JASON HART 21.31 Acres Mapped Size 37.74156, -75.639151 Jason hart PLS Woodsand Park Ave Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community Esri, HERE, Garmin, (c)
OpenStreetMap contributors

# Chesapeake Campus

Soil Series
Bojac
Dragston
Munden
Tomotley*-Urban-Nimmo Complex
Udorthents
Urban

<sup>\*</sup>Environmentally Sensitive Soil/Site



# **Regional Automotive Center**

Map Unit	Soil Series
12	Chesapeake
25	Munden
30	Nawney*



# Portsmouth Campus

Map Unit	Soil Series	
24	Tomotley*-Urban Complex	

<sup>\*</sup>Environmentally Sensitive Soil/Site





7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446

**Nutrien**Ag Solutions

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www.waypointanalytical.com

SOIL ANALYSIS

Grower: 20-294-0527 Report No: Nutrien Ag Solutions, Inc. (Melfa) Hart Cust No: 74074 18432 Wachapreague Road Date Printed: 10/21/2020 Melfa VA 23410 Date Received : 10/20/2020 PO: Farm: Hwy Page: 1 of 1

Lab No: 01519

Field:

Sample ID: 1

Test				Calculated Cation					
	Method	Results		Low	Medium	Optimum	Very High	Exchange C	apacity
Soil pH	1:1	5.5						3.8 me	q/100g
Buffer pH	SMP	6.83					100	%Satura	tion
Phosphorus (P)	M3	65 ppm						%sat	meq
Potassium (K)	M3	84 ppm						K 5.7	0.2
Calcium (Ca)	M3	420 ppm			EHE!			Ca 55.3	2.1
Magnesium (Mg)	M3	49 ppm						Mg 10.7	0.4
Sulfur (S)	M3	19 ppm			200			H 26.3	
Boron (B)	M3	0.2 ppm					- 1	Na 1.5	0.1
Copper (Cu)	M3	2.9 ppm					0		
Iron (Fe)	M3	118 ppm						K/Mg Ratio:	0.53
Manganese (Mn)	M3	8 ppm						Ca/Mg Ratio:	5.17
Zinc (Zn)	M3	2.2 ppm							
Sodium (Na)	M3	13 ppm							
Soluble Salts					. =				
Organic Matter	LOI	1.9% ENR 83							
Nitrate Nitrogen							ľ		
			1				-		
			1						
			1						

### SOIL FERTILITY GUIDELINES

Crop: Wheat		Yield Goal: 100			bu		Rec Units:			LB/ACRE	
(lbs) LIME	(tons)	N	P <sub>2</sub> O <sub>5</sub>	K 20	Mg	S	В	Cu	Mn	Zn	Fe
1500	8.0	151	25	58	13	9	0.5	0	3	2.9	0
Crop:			Was controlled to the controll					Rec U	nits:		
		T				Γ	Τ	1		T	
						1			1	1	i .

Comments:

#### Wheat

Limestone application is targeted to bring soil pH to 6.2.

- · Apply dolomitic lime to raise pH and improve the magnesium level.
- · Boron recommendations are on a broadcast basis.
- If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.
- The above N recommendation on small grain is the total amount of fall plus spring applications. Apply only 15-20# N in the fall and the balance right before the growth starts in the spring.
- For high yield wheat nitrogen management consult this website for details: http://www.ext.vt.edu/pubs/grains/424-026/424-026.html
- · Apply the sulfur recommendation in sulfate form with the spring application of N. Note: thiosulfate doesn't contain sulfate.

				Nutrie	ient Apr	nt Application Worksheet	Vorksh	heet					
NAME:		Bert 1	Bert Thompson	ion			Man	agem	Management Area:	P	Portsmouth 1	1	
Prepared:			7/1/21				Area	-	101511	Chocioc.	å	Dormingo	
Expires:			711124				(sq ft):		44640	opecies.	å	HIII	
Total Nutrient Needs	Application Month/Day	Analysis	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft²	lbs or oz	%Slow Release N	Total NPK lbs/1000ft²	Gypsum	Lime	Total Product per App.
Nitrogen		N - P - K								N - P <sub>2</sub> O <sub>5</sub> - K <sub>2</sub> O			
1.4	5/1	20 - 14 - 14	-	30 days	dry	granular	3.50	sql	%0	0.70 - 0.49 - 0.49			366
Phosphorus	9/1	20 - 14 - 14	-	30 days	dry	granular	3.50	sql	%0	0.70 - 0.49 - 0.49			366
_		1								0.00 - 0.00 - 0.00			0
Potassium										0.00 - 0.00 - 0.00			0
_										0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
		1								1			0
		1								0.00 - 0.00 - 0.00			0
		1								- 0.00 -			0
		1								0.00 - 0.00 - 0.00			0
		1								0.00 - 0.00 - 0.00			0
							Total		######	1.40 - 0.98 - 0.98			
				N Recor	nmendatio	N Recommendation Range and Soil Test Ratings	Soil Tes	t Rati	ngs	1.4   1   1			
Notes:													

NAME:		Be	rt Thomp	son			Mana	aem	ent Area:		Po	ortsmouth :	2	
Prepared: Expires:			7/1/21 7/1/24				Area (sq ft):		113256	Species:		Ве	rmuda	
Total Nutrient Needs	Application Month/Day	Analysi	# of Apps	Application Interval	Fertilizer Type	Fertilizer Description	Rate per 1000ft <sup>2</sup>	lbs or oz	%Slow Release N	Total NP		Gypsum	Lime	Total Product per App. (lbs or oz
Nitrogen		N - P -	K							N - P <sub>2</sub> O <sub>5</sub>	- K <sub>2</sub> O			
1.4	5/1	20 - 14 -	20 1	30 days	dry	granular	3.50	lbs	0%	0.70 - 0.49				396
Phosphorus	9/1	20 - 14 -		30 days	dry	granular	3.50	lbs	0%	0.70 - 0.49	- 0.70			396
1				1						0.00 - 0.00	- 0.00			0
Potassium										0.00 - 0.00	- 0.00			0
1.5										0.00 - 0.00	- 0.00			0
		2 2									- 0.00			0
										0.00 - 0.00	- 0.00			0
										0.00 - 0.00	- 0.00			0
		- 1								0.00 - 0.00	- 0.00			0
										0.00 - 0.00	- 0.00			0
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										0.00 - 0.00	- 0.00			0
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										0.00 - 0.00				0
										0.00 - 0.00				0
		+ =								0.00 - 0.00	- 0.00			0
							Total		######	1.40 - 0.98	- 1.40			
				N Reco	mmendatio	n Range and	Soil Test	Rati	ings	1.4 1	1.5			

			S	oil Tes	t Sumr	nary				
Customer Name:	:					Bert Thomp:	son			
Testing Lab:						Virginia Te	ch			
Sample Date:						6/23/202				
Planner Name						Christy F. Sn	nith			
Certification Number						297				
Managed	AREA	Soil	Buffer	Lab Test	VT	Lab Test	VT	Species		
Area ID	(sq ft)	pН	рН	Р	(H/M/L)	K	(H/M/L)	Species		
Portsmouth 1	104,544	6.4	6.27	54	H-	173	M+	Bermuda		
Portsmouth 2	113,256	7.5	6.6	39	H-	124	Μ	Bermuda		
								· -		
	1									
	† †									
	1									
	1									
	<del>                                     </del>									
	1									
-	†									
Notes:				No lim	ne is needed	at this time				

# Virginia Cooperative Extension Soil Test Report

Questions? Contact: Portsmouth City Office 105 Utah Street Portsmouth, VA 23701 757-393-5197 Virginia Tech Soil Testing Laboratory 145 Smyth Hall (0465) 185 Ag Quad Ln Blacksburg, VA 24061 www.soiltest.vt.edu

SEI	E NOTES:
1	3
	www.coiltost.ut.adu.undar.Danaut.Nataa

O SMITHAG C F O O O N 3160 JACOBIA LN P R Y

CAPE CHARLES, VA 23310

#### SAMPLE HISTORY

			Q1 K112 A3	DIMIDIONI						
Sample	Field	LAST CROP			T LIME ICATION		soi	L INFOR	MATION	
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
PORT1	PORTSMOUTH									III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	54	173	2356	181	5.1	7.1	0.8	23.6	0.3	
Rating	H-	M+	VH	н	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil pH	Buffer Index	EstCEC (meq/100g)	Acidity (%)	Base Sat. (%)	Ca Sat. (%)	Mg Sat. (%)	K Sat. (%)	Organic Matter (%)
Result	6.4	6.27	7.6	10.1	89.9	77.2	9.8	2.9	

### FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, T	ONS/AC
Amount	Type
0	

	Fertilizer, lb/A	
N	P205	K20
See	0	40
Comment		

- 825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.
- 131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.
- 123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.
- 991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

# Virginia Cooperative Extension Soil Test Report

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SEE	NOTES:
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SMITHAG

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O O

S O

P R

F R

CAPE CHARLES, VA 23310

SAMPLE HISTORY

Sample	Field	LAST CROP			T LIME ICATION		SOI	L INFOR	MATION	
ID	ID	Name	Yield	Months Prev.	Tons/Acre	SMU-1 %	SMU-2 %	SMU-3 %	Yield Estimate	Productivity Group
PORT2	TCC								_	III

LAB TEST RESULTS (see Note 1)

Analysis	P (lb/A)	K (lb/A)	Ca (lb/A)	Mg (lb/A)	Zn (ppm)	Mn (ppm)	Cu (ppm)	Fe (ppm)	B (ppm)	S.Salts (ppm)
Result	39	124	3666	154	3.5	7.7	1.3	29.5	0.5	
Rating	H-	м	VH	H-	SUFF	SUFF	SUFF	SUFF	SUFF	

Analysis	Soil	Buffer	EstCEC	Acidity	Base Sat.	Ca Sat.	Mg Sat.	K Sat.	Organic
	pH	Index	(meq/100g)	(%)	(%)	(%)	(%)	(%)	Matter (%)
Result	7.5	6.60	9.9	0.0	100.0	92.0	6.4	1.6	

### FERTILIZER AND LIMESTONE RECOMMENDATIONS

Crop: Native or Unimproved Pasture (42)

Lime, TONS/AC						
Amount	Type					
0						

Fertilizer, lb/A							
N	P205	K20					
See	0	80					
Comment							

- 825. If stand contains less than 25 percent clover, apply 40-60 lbs N/A.
- 131. If additional production is needed later on, apply 40 to 60 lbs/A of N during the grazing season. If you are planning to overseed a legume into the stand, omit the N recommendation.
- 123. P2O5 and K2O recommendations are for single applications made every 3 to 4 years. After this time, soils should be re-tested.
- 991. "Explanation of Soil Tests, Note 1" and other referenced notes are viewable at www.soiltest.vt.edu under Report Notes.

# Standards and Criteria

# Section VI. Turfgrass Nutrient Recommendations for Home Lawns, Office Parks, Public Lands and Other Similar Residential/Commercial Grounds

### **Definitions**

For the purposes of this section, the following definitions, as presented by the Association of American Plant Food Control Officials (AAPFCO), apply:

"Enhanced efficiency fertilizer" describes fertilizer products with characteristics that allow increased plant nutrient availability and reduce the potential of nutrient losses to the environment when compared to an appropriate reference product.

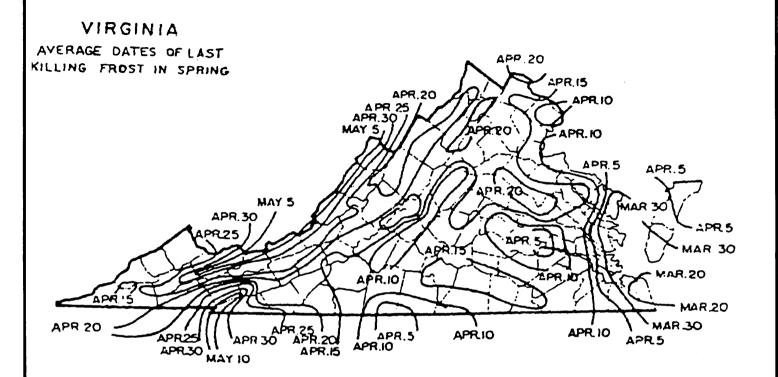
"Slow or controlled release fertilizer" means a fertilizer containing a plant nutrient in a form which delays its availability for plant uptake and use after application, or which extends its availability to the plant significantly longer than a reference "rapidly available nutrient fertilizer" such as ammonium nitrate, urea, ammonium phosphate or potassium chloride. A slow or controlled release fertilizer must contain a minimum of 15 percent slowly available forms of nitrogen.

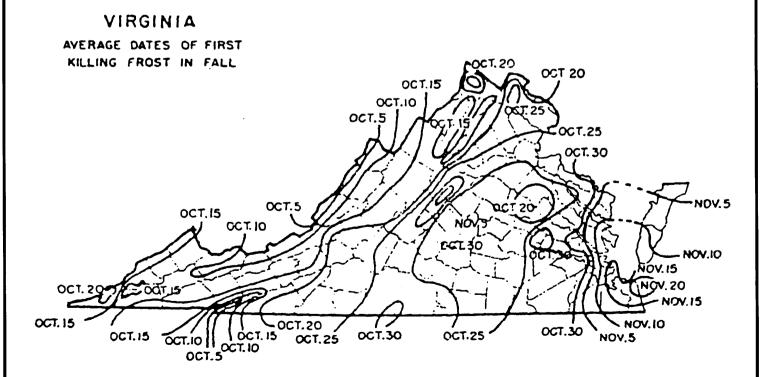
"Water soluble nitrogen", "WSN" and "readily available nitrogen" means: Water soluble nitrogen in either ammonical, urea, or nitrate form that does not have a controlled release, or slow response.

## Recommended Season of Application For Nitrogen Fertilizers - Applies to all Turf

A nitrogen fertilization schedule weighted toward fall application is recommended and preferred for agronomic quality and persistence of cool season turfgrass; however, the acceptable window of applications is much wider than this for nutrient management. The nutrient management recommended application season for nitrogen fertilizers to cool season turfgrasses begins six weeks prior to the last spring average killing frost date and ends six weeks past the first fall average killing frost date (see Figures 6-1 & 6-2). Applications of nitrogen during the intervening late fall and winter period should be avoided due to higher potential leaching or runoff risk, but where necessary, apply no more than 0.5 pounds per 1,000 ft<sup>2</sup> of water soluble nitrogen within a 30 day period. Higher application rates may be used during this late fall and winter period by using materials containing slowly available sources of nitrogen, if the water soluble nitrogen contained in the fertilizer does not exceed the recommended maximum of 0.5 pounds per 1,000 ft<sup>2</sup> rate. Do not apply nitrogen or phosphorus fertilizers when the ground is frozen.

The acceptable nitrogen fertilizer application season for non-overseeded warm season turfgrass begins no earlier than the last spring average killing frost date and ends no later than one month prior to the first fall average killing frost date (see Figures 6-1 & 6-2).





## **Recommendations for Establishment of Turf**

These recommendations are for timely planted turfgrass, that is, the seed or vegetative material (sod, plugs, and /or sprigs), are planted at a time of the year when temperatures and moisture are adequate to maximize turfgrass establishment. These recommended establishment periods would be late summer to early fall for cool-season turfgrasses and late spring through mid-summer for warm-season turfgrasses.

## **Nitrogen Applications**

At the time of establishment, apply no more than 0.9 pounds per 1,000 ft<sup>2</sup> of total nitrogen for cool season grasses or 1.0 pounds per 1,000 ft<sup>2</sup> of total nitrogen for warm season grasses, using a material containing slowly available forms of nitrogen, followed by one or two applications beginning 30 days after planting, not to exceed a total of 1.8 pounds per 1,000 ft<sup>2</sup> total for cool season grasses and 2.0 pounds per 1,000 ft<sup>2</sup> for warm season grasses for the establishment period. Applications of WSN cannot exceed more than 0.7 pounds per 1,000 ft<sup>2</sup> within a 30 day period.

## **Phosphorus and Potassium Recommendations for Establishment**

Soil Test Level	Nutrient Needs (lbs /1000 ft <sup>2)</sup> *				
	P <sub>2</sub> O <sub>5</sub>	K₂O			
L	3-4				
M	2-3	1-2			
Н	2-1	0.5-1			
VH	0	0			

<sup>\*</sup> For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range.

## **Per Application Rates**

Do not apply more than 0.7 pounds of water soluble nitrogen per 1,000 ft² within a 30 day period. For cool season grasses, do not apply more than 0.9 pounds of total nitrogen per 1,000 ft² within a 30 day period. For warm season grasses, do not apply more than 1.0 pounds of total nitrogen per 1,000 ft² within a 30 day period. Lower per application rates of water soluble nitrogen sources or use of slowly available nitrogen sources should be utilized on very permeable sandy soils, shallow soils over fractured bedrock, or areas near water wells.

### Annual Application Rates for Home Lawns and Commercial Turf

Up to 3.5 pounds per 1,000 ft² of nitrogen may be applied annually to cool season grass species or up to 4 pounds per 1,000 ft² may be applied annually to warm season grass species using 100 percent water soluble nitrogen sources. Lower rates of nitrogen application may be desirable on those mature stands of grasses that require less nitrogen for long-term quality. As a result, lower application rates will probably be more suited to the fine leaf fescues (hard fescue, chewings fescue, creeping red fescue, and sheep fescue) and non-overseeded zoysiagrass. Lower rates should also be used on less intensively managed areas.

### Use of Slowly Available Forms of Nitrogen

For slow or controlled release fertilizer sources, or enhanced efficiency fertilizer sources, no more than 0.9 pounds of nitrogen per 1,000 ft² may be applied to cool season grasses within a 30 day period and no more than 1.0 pounds of nitrogen per 1,000 ft² may be applied to warm season grasses within a 30 day period. Provided the fertilizer label guarantees that the product can be used in such a way that it will not release more than 0.7 pounds of nitrogen per 1,000 ft² in a 30 day period, no more than 2.5 pounds of nitrogen per 1,000 ft² may be applied in a single application. Additionally, total annual applications shall not exceed 80 percent of the annual nitrogen rates for cool or warm season grasses.

### Phosphorus and Potassium Nutrient Needs (Established Turf)

Apply phosphorus ( $P_2O_5$ ) and potassium ( $K_2O$ ) fertilizers as indicated necessary by a soil test using the following guidelines:

Soil Test Level	Nutrient Needs (lbs /1000 ft2) *					
	P <sub>2</sub> O <sub>5</sub>	K₂O				
L	2-3	2-3				
M	1-2	1-2				
Н	0.5-1	0.5-1				
VH	0	0				

\* For the lower soil test level within a rating, use the higher side of the range and for higher soil test level within a rating use the lower side of the recommendation range. (For example the recommendation for a  $P_2O_5$  soil test level of L- would be 3 pounds per 1,000 ft<sup>2</sup>.)

Do not use high phosphorus ratio fertilizers such as 10-10-10 or 5-10-10, unless soil tests indicate phosphorus availability below the M+ level.

	Fertilizer Application Records										
Customer Information				Management Area Information							
Name:	Bert Tho	Bert Thompson					Management Area ID:				
Address:	120 Camp	120 Campus Drive				Management Area Size:					
	Portsmouth, VA 23				Plant Species:		s:				
							·				
Phone #:	757-822	757-822-1715									
Date	Companies a / Amplication	Weather Conditions Fertilizer		er	Poto	Am	ount	Application			
(M/D/Y)	Supervisor/Applicator	Temp	Wind Speed	Precip	Analys	sis	Rate Fer	Fertiliz	izer Used	Equipment Used	
					:						
-											

When was the last time your fertilizer equipment was calibrated???

For information on calibration see Chapter 10 of the "Urban Nutrient Management Handbook".

Available for download at http://pubs.ext.vt.edu/430/430-350/430-350.html