

North Carolina Land - Form #601NC-1

Team #	Last Name										First Name											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
5	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
6	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
7	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
8	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
9	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J	J
	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

Division

Junior (J)

Senior (S)

Contestant #

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

Team Name / Additional Info

Part I - Surface Layer (top 6 inches)

TEXTURE	1	2	3	4	One answer per site!
1 Sandy	(1)	(2)	(3)	(4)	
2 Loamy	(1)	(2)	(3)	(4)	
3 Clayey	(1)	(2)	(3)	(4)	
STRUCTURE	1	2	3	4	One answer per site!
1 Single Grain	(1)	(2)	(3)	(4)	
2 Granular	(1)	(2)	(3)	(4)	
3 Blocky	(1)	(2)	(3)	(4)	
4 Platy	(1)	(2)	(3)	(4)	
5 Massive	(1)	(2)	(3)	(4)	
CONSISTENCE	1	2	3	4	One answer per site!
1 Loose	(1)	(2)	(3)	(4)	
2 Friable	(1)	(2)	(3)	(4)	
3 Firm	(1)	(2)	(3)	(4)	
EROSION	1	2	3	4	One answer per site!
1 None to slight	(1)	(2)	(3)	(4)	
2 Moderate	(1)	(2)	(3)	(4)	
3 Severe	(1)	(2)	(3)	(4)	

Part I - Subsurface Layer

TEXTURE	1	2	3	4	One answer per site!	
1 Sandy	(1)	(2)	(3)	(4)		
2 Loamy	(1)	(2)	(3)	(4)		
3 Clayey	(1)	(2)	(3)	(4)		
STRUCTURE	1	2	3	4	One answer per site!	
1 Single Grain	(1)	(2)	(3)	(4)		
2 Granular	(1)	(2)	(3)	(4)		
3 Blocky	(1)	(2)	(3)	(4)		
4 Platy	(1)	(2)	(3)	(4)		
5 Massive	(1)	(2)	(3)	(4)		
CONSISTENCE (Moist)	1	2	3	4	One answer per site!	
1 Loose	(1)	(2)	(3)	(4)		
2 Friable	(1)	(2)	(3)	(4)		
3 Firm	(1)	(2)	(3)	(4)		
4 Very Firm	(1)	(2)	(3)	(4)		
CONSISTENCE (WET)	1	2	3	4		One answer per site!
1 Non-Sticky	(1)	(2)	(3)	(4)		
2 Sticky	(1)	(2)	(3)	(4)		
3 Very Sticky	(1)	(2)	(3)	(4)		
PERMEABILITY	1	2	3	4	One answer per site!	
1 Rapid	(1)	(2)	(3)	(4)		
2 Moderate	(1)	(2)	(3)	(4)		
3 Slow	(1)	(2)	(3)	(4)		
4 Very Slow	(1)	(2)	(3)	(4)		
DEPTH TO LIMITING LAYER	1	2	3	4	One answer per site!	
1 Very Shallow (<12")	(1)	(2)	(3)	(4)		
2 Shallow (12-24")	(1)	(2)	(3)	(4)		
3 Moderately Deep (24-36")	(1)	(2)	(3)	(4)		
4 Deep (>36")	(1)	(2)	(3)	(4)		

Part I - Total Soil Characteristics

SLOPE	1	2	3	4	One answer per site!	
1 0-2% Nearly level	(1)	(2)	(3)	(4)		
2 2-6% Gently sloping	(1)	(2)	(3)	(4)		
3 6-10% Sloping	(1)	(2)	(3)	(4)		
4 10-15% Strongly sloping	(1)	(2)	(3)	(4)		
5 15-25% Steep	(1)	(2)	(3)	(4)		
6 25% + Very steep	(1)	(2)	(3)	(4)		
DRAINAGE	1	2	3	4	One answer per site!	
1 Well	(1)	(2)	(3)	(4)		
2 Moderately Well	(1)	(2)	(3)	(4)		
3 Somewhat Poorly	(1)	(2)	(3)	(4)		
4 Poorly	(1)	(2)	(3)	(4)		
5 Very Poorly	(1)	(2)	(3)	(4)		
FLOODING	1	2	3	4		One answer per site!
1 No hazard	(1)	(2)	(3)	(4)		
2 Potential hazard	(1)	(2)	(3)	(4)		
3 In flood plain	(1)	(2)	(3)	(4)		
SURFACE WATER REMOVAL	1	2	3	4	One answer per site!	
1 Rapid	(1)	(2)	(3)	(4)		
2 Moderate	(1)	(2)	(3)	(4)		
3 Slow	(1)	(2)	(3)	(4)		
4 Very slow	(1)	(2)	(3)	(4)		

Part II - Land Capability Class

CLASS	1	2	3	4	One answer per site!
1 I	(1)	(2)	(3)	(4)	
2 IIe	(1)	(2)	(3)	(4)	
3 IIs	(1)	(2)	(3)	(4)	
4 IIw	(1)	(2)	(3)	(4)	
5 IIIe	(1)	(2)	(3)	(4)	
6 IIIs	(1)	(2)	(3)	(4)	
7 IIIw	(1)	(2)	(3)	(4)	
8 IVe	(1)	(2)	(3)	(4)	
9 IVs	(1)	(2)	(3)	(4)	
10 IVw	(1)	(2)	(3)	(4)	
11 VIe	(1)	(2)	(3)	(4)	
12 VIs	(1)	(2)	(3)	(4)	
13 VIIe	(1)	(2)	(3)	(4)	
14 VIIs	(1)	(2)	(3)	(4)	
15 VIII	(1)	(2)	(3)	(4)	

TILLAGE SYSTEMS		1	2	3	4
1	Conventional tillage, conserve crop residue	1	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
2	Conservation tillage, manage crop residue	2	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
3	Long-Term No Till	3	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
CONSERVATION CROPPING SYSTEMS		1	2	3	4
4	Row crop each year	4	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
5	Soil conserving crop 1 year in 4	5	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
6	Soil conserving crop 1 year in 3	6	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
7	Soil conserving crop 1 year in 2	7	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
8	Soil conserving crop 2 years in 3	8	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
9	Soil conserving crop 3 years in 4	9	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
SUPPORTING PRACTICES		1	2	3	4
10	Contour farming	10	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
11	Strip cropping	11	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
12	Terrace and maintain terraces	12	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
13	Construct diversion	13	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
14	Establish grassed waterway	14	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
15	Establish field border	15	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
16	Establish windbreak	16	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
17	Install water table control	17	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
18	Install surface water management	18	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
19	Stabilize sediment source areas	19	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
20	Establish recommended grass and/or legumes	20	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
21	Plant recommended trees	21	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
MANAGEMENT PRACTICES		1	2	3	4
22	Remove obstructions	22	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
23	Control grazing	23	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
24	Proper pasture management	24	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
25	Improve tree stand	25	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
26	Woodland protection	26	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
27	Harvest trees using recommended method	27	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

Part III - Recommended Land Treatments

Answer all factors for all sites - 27 marks per site!

SEPTIC SYSTEMS		1	2	3	4
1	Slight	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
2	Moderate	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
3	Severe	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
BASEMENTS		1	2	3	4
1	Slight	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
2	Moderate	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
3	Severe	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
FOUNDATIONS		1	2	3	4
1	Slight	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
2	Moderate	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
3	Severe	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
SANITARY LANDFILLS		1	2	3	4
1	Slight	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
2	Moderate	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
3	Severe	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
LANDSCAPING		1	2	3	4
1	Slight	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
2	Moderate	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
3	Severe	1	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		

Part IV - Soil Limitations for Urban Uses

The soil characteristics judged in PART ONE determine the limitations of a soil for urban uses. Rate each site as to the soil limitations for each urban use.

One answer per site!

Part IV - Special Environmental Concerns				
Mark True (T) or False (F) for each question for all sites - 5 marks per site!				
	1	2	3	4
1 This appears to be a hydric soil. Check with authorities before draining and/or clearing site.	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F
2 Risk of groundwater contamination when wet (from soluble nutrients and/or certain pesticides).	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F
3 Deep leaching of soluble nutrients may restrict rates of animal or municipal waste application.	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F
4 Proximity to water body may restrict application of certain pesticides and waste materials.	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F
5 High risk of off-site damage from eroding sediments if vegetative cover is destroyed or absent.	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F	<input type="radio"/> T <input type="radio"/> F