

Last Name										First Name									
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
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
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
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
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
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
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
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
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
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

# Missouri Soil

Form #: 601MO-1

Team Name

Team #			
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Code	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Site:	Site 1				Site 2				Site 3				Site 4			
Horizon:	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>COLOR</b>																
Dark brown, Very dark brown, Black	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Light brown, Brown, Yellowish brown	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Red, Reddish brown	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Dark gray, Light gray, White	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>ALL MOTTLES (Abundance)</b>																
Few (0 – 1.9%)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Common (2 – 19%)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Many (= or > 20%)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>TEXTURE</b>																
Sand, Loamy sand	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Sandy loam	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Loam, Silt loam	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Sandy clay loam, Clay loam, Silty clay loam	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Clay, Silty clay, Sandy clay, or N/A	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>STRUCTURE TYPE</b>																
Granular	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Platy	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Blocky	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Prismatic	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Massive, Single grain	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>TOTAL ROCK FRAGMENTS (2mm to 10 inches)</b>																
< 15% (no modifier)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
15 to 35% (gravelly, channery, cobbly, or flaggy)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
35 to 60% VERY (gravelly, channery, cobbly, or flaggy)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
> 60% EXTREMELY (gravelly, channery, cobbly, or flaggy)	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>ROCK FRAGMENTS (3 to 10 inches only)</b>																
< 15%	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
15 – 35%	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
35 – 60%	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
> 60%	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>SPECIAL FEATURES</b>																
None	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Fragipan	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Abrupt textural change	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>HORIZON NAME</b>																
A	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Ap	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
B	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
C	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Cr	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
E	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
R	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

PROPERTIES OF THE WHOLE SOIL	Site			
	1	2	3	4
<b>Effective Rooting Depth</b>				
Very deep (>60 inches)	1	2	3	4
Deep (40-60 inches)	1	2	3	4
Moderately deep (20-40 inches)	1	2	3	4
Shallow (10-20 inches)	1	2	3	4
Very shallow (<10 inches)	1	2	3	4
<b>Available Water Capacity (AWC)</b>				
Very high (> 12 inches)	1	2	3	4
High (9 < 12 inches)	1	2	3	4
Moderate (6 < 9 inches)	1	2	3	4
Low (3 < 6 inches)	1	2	3	4
Very Low (< 3 inches)	1	2	3	4
<b>Surface Soil Permeability</b>				
Rapid to very rapid (>6.0 in./hr.)	1	2	3	4
Moderately rapid (2.0-6.0 in./hr.)	1	2	3	4
Moderate (0.6-2.0 in./hr.)	1	2	3	4
Moderately slow (0.2-0.6 in./hr.)	1	2	3	4
Slow to extremely slow (<0.2 in./hr.)	1	2	3	4
<b>Subsoil Permeability</b>				
Rapid to very rapid (>6.0 in./hr.)	1	2	3	4
Moderately rapid (2.0-6.0 in./hr.)	1	2	3	4
Moderate (0.6-2.0 in./hr.)	1	2	3	4
Moderately slow (0.2-0.6 in./hr.)	1	2	3	4
Slow to extremely slow (<0.2 in./hr.)	1	2	3	4
<b>Internal Drainage</b>				
Excessive / somewhat excessive	1	2	3	4
Well	1	2	3	4
Moderately well	1	2	3	4
Somewhat poorly drained	1	2	3	4
Poorly drained / very poorly drained	1	2	3	4
<b>Depth to High Water Table (WT)</b>				
> 60 inches	1	2	3	4
42 - 60 inches	1	2	3	4
24 - 42 inches	1	2	3	4
12 - 24 inches	1	2	3	4
< 12 inches	1	2	3	4
<b>Shrink-Swell Potential</b>				
Low	1	2	3	4
Moderate	1	2	3	4
High	1	2	3	4

SITE CHARACTERISTICS	Site			
	1	2	3	4
<b>Landform</b>				
Upland	1	2	3	4
Foot slopes or alluvial fans	1	2	3	4
Flood plain	1	2	3	4
Stream terrace	1	2	3	4
Sinkholes	1	2	3	4
<b>Slope</b>				
0 - 1.99%	1	2	3	4
2 - 4.99%	1	2	3	4
5 - 8.99%	1	2	3	4
9 - 13.99%	1	2	3	4
14 - 24.99%	1	2	3	4
= or > 25%	1	2	3	4
<b>Aspect</b>				
Northerly	1	2	3	4
Southerly	1	2	3	4
Easterly	1	2	3	4
Westerly	1	2	3	4
None of the above (<2% slope)	1	2	3	4
<b>Parent Material</b>				
Loess	1	2	3	4
Glacial till	1	2	3	4
Residuum or colluvium	1	2	3	4
Alluvium	1	2	3	4
Loess over glacial till	1	2	3	4
Loess over residuum or colluvium	1	2	3	4
Colluvial sediments over residuum or glacial till	1	2	3	4
Loess over alluvium	1	2	3	4
<b>Stoniness (area 100x100 ft. sq.)</b>				
None (>100 feet apart)	1	2	3	4
Stony (30-100 feet apart)	1	2	3	4
Very stony (5-30 feet apart)	1	2	3	4
Extremely stony (2.5-5 feet apart)	1	2	3	4
Rubby (<2.5 feet apart)	1	2	3	4
<b>Rockiness</b>				
Not rocky (<10 sq. ft./area)	1	2	3	4
Rocky (10-200 sq. ft./area)	1	2	3	4
Very rocky (200-1000 sq. ft./area)	1	2	3	4
Rock outcrop complex (>1000 sq. ft./area)	1	2	3	4

MANAGEMENT INTERPRETATIONS	(Y=Yes N=No A=Asset L=Liability)			
	Site			
	1	2	3	4
<b>Surface Drainage</b>				
Surface drainage needed	Y N	Y N	Y N	Y N
<b>Irrigation Suitability</b>				
Surface soil texture	A L	A L	A L	A L
Slope	A L	A L	A L	A L
AWC	A L	A L	A L	A L
Depth to High Water Table	A L	A L	A L	A L
Permeability	A L	A L	A L	A L
Rock fragments (>3 in.)	A L	A L	A L	A L
Depth to bedrock	A L	A L	A L	A L
<b>Hazards and Limitations for Cropping</b>				
Slope or erosion	Y N	Y N	Y N	Y N
Available water capacity	Y N	Y N	Y N	Y N
Surface drainage	Y N	Y N	Y N	Y N
Internal drainage	Y N	Y N	Y N	Y N
Rock fragments	Y N	Y N	Y N	Y N
Stoniness	Y N	Y N	Y N	Y N
Rockiness	Y N	Y N	Y N	Y N

MANAGEMENT INTERPRETATIONS	(Sl=Slight M=Moderate Sv=Severe)			
	Site			
	1	2	3	4
<b>Pond Reservoir Area</b>				
Permeability	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to hard bedrock	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to soft bedrock	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Slope	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
<b>Limitations for Dwellings with Basements</b>				
Depth to High Water Table	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Flooding	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Shrink-Swell potential	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Slope	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Rock fragments (>3 in.)	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to bedrock	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
<b>Limits for Septic Tank Absorption Fields</b>				
Permeability	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to High Water Table	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to bedrock	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Slope	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Flooding	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Rock fragments (>3in.)	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
<b>Limitations for Sewage Lagoons</b>				
Permeability	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to High Water Table	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Depth to bedrock	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Slope	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Flooding	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv
Rock fragments (>3in.)	Sl M Sv	Sl M Sv	Sl M Sv	Sl M Sv