

Last Name										First Name										
A	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	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-2

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

COLOR	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
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
ALL MOTTLES (Abundance)																	
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
TEXTURE																	
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
STRUCTURE TYPE																	
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
TOTAL ROCK FRAGMENTS (2mm to 10 inches)																	
< 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
ROCK FRAGMENTS (3 to 10 inches only)																	
< 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
SPECIAL FEATURES																	
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
HORIZON NAME																	
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
Effective Rooting Depth				
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
Available Water Capacity (AWC)				
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
Surface Soil Permeability				
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
Subsoil Permeability				
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
Internal Drainage				
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
Depth to High Water Table (WT)				
> 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
Shrink-Swell Potential				
Low	1	2	3	4
Moderate	1	2	3	4
High	1	2	3	4

SITE CHARACTERISTICS	Site			
	1	2	3	4
Landform				
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
Slope				
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
Aspect				
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
Parent Material				
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
Stoniness (area 100x100 ft. sq.)				
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
Rubbly (<2.5 feet apart)	1	2	3	4
Rockiness				
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
Surface Drainage				
Surface drainage needed	Y N	Y N	Y N	Y N
Irrigation Suitability				
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
Hazards and Limitations for Cropping				
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	(SI=Slight M=Moderate Sv=Severe) Site			
	1	2	3	4
Pond Reservoir Area				
Permeability	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to hard bedrock	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to soft bedrock	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Slope	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Limitations for Dwellings with Basements				
Depth to High Water Table	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Flooding	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Shrink-Swell potential	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Slope	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Rock fragments (>3 in.)	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to bedrock	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Limits for Septic Tank Absorption Fields				
Permeability	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to High Water Table	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to bedrock	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Slope	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Flooding	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Rock fragments (>3in.)	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Limitations for Sewage Lagoons				
Permeability	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to High Water Table	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Depth to bedrock	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Slope	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Flooding	SI M Sv	SI M Sv	SI M Sv	SI M Sv
Rock fragments (>3in.)	SI M Sv	SI M Sv	SI M Sv	SI M Sv