SOIL JUDGING

2025 Texas 4-H Roundup



CONTEST RULES

- Each contestant will be given a number. This number must appear on the scorecards along with the pit number (or letter).
- Each contestant has 20 minutes from the time the pit judge says start.
- It is advisable for the contestants at each pit to be split into two groups. One group is allowed into the pit for the first 5 minutes, while the second group must wait (provides time to measure slope and evaluate landscape). The final 10 minutes are then open to all contestants.
- The contestants must give a completed score card to pit official upon the call "TIMES UP". Contestants failing to give card to pit official before leaving pit area or after "TIMES UP" is called will have scores for that particular pit voided.
- Each team will consist of at least 3 members and not more than 4 members.
- Can compete as an individual
- In general, no more than 15-20 persons should be in or around a pit at one time.
- Large contests, where 15+ teams are present, should be split into 5-8 pit numbers, thus at time 1 (A-D enter the pits) at time 2 (B-E) enter, at time 3 (C-F enter).
- This staggering will cause some individuals to be out of the pits in wait mode.
- It is desirable to funnel these individuals back into the pits as soon as possible.
- Under no circumstances should two members from the same team/county be in the pits at the same time.
- Subsequently, these members should remain separated during all other times
- Teams or contestants acting in un-sportsmanship like behavior may be disqualified by any contest official. The contest superintendent will have final authority over all questionable actions.

APPROVED EQUIPMENT

- Contestants may carry: clipboard, pencils, water bottle, knife, and towel.
- Contestants ARE NOT ALLOWED to carry: instructional or reference materials of any kind.

SOIL JUDGING

JUDGING

The score card judging is a time consuming process. It is advisable to locate 4-6 individuals for score card grading. Each score card should be marked, tallied, and signed twice. Each section is to be worth 10 points, except Section A-C which are worth 20 points, for a maximum of 150 points per pit. The contest superintendent and pit judges may require more than one mark per section. In this case, each mark may be assigned an individual value such as:

3 correct answers,

- if mark 1 then 3 points
- if marked 2 then 6 points
- all marked then 10 points
- if marked 2 correct and 1 incorrect then 3 points
- if marked 1 correct and 2 incorrect then 0 points
- No negative credit will be given.

The team scores will be based on top three individuals on each pit. For example:								
Individual Tom Bill Jenny Luke Team Total	100 20 150 110	pit 2 150 20 150 10 320	pit 3 70 150 100 130 380	pit 4 40 100 10 120 260	total 360 290 410 370	For a team total of 1320 points		

• This scoring method generally allows each contestant to participate in the final team score. For individual totals, all four pits are used. In this case, the ranking would be Jenny, Luke, Tom then Bill.

SETTING UP THE PITS

- Four soil pits should be dug that represent some diversity in soil genesisand morphology.

 These pits should not be deeper than 4 feet, or wallshoring is required. The pits should also be 3-5 feet wide, although sandypits should be 6+ feet wide. As a rule, the wider the pit the better.
- A control zone will be established and outlined with string and nails. Thiszone should be picked clean to show structural details. The zone chosenshould be representative of the soil 3-4 feet on each side of the zone. Inaddition, the official judges will use the control zone for all judging. Nocontestant's will be allowed to pick, dig, or otherwise manipulate this zone.
- A ruler and water bottle should be provided at each site. In addition, twoslope markers should be positioned 100 feet apart. The positioning of these markers should represent the landscape in which the pit lies. It is advisable that the top of each marker be of similar height.

Land Judging Scorecard-Senior

Contestant Name	<u>Site</u>	NumberCounty	
	I. SOI	L FACTORS	
A TEVTUDE	5	DEDTU OF 001	
A. TEXTURE	D.	DEPTH OF SOIL	
	bsoil	O Deep	
	2	O Moderately deep	
O Moderately coarse)	◯ Shallow	
O Medium))) E.	O Very shallow	
O Moderately fine) E.	SLOPE	
O 1 1110	,	O Nearly level	
B. STRUCTURE		Gently sloping	
SURFACE Subsoil	_	Moderately sloping	
O Single grained)	$\overset{oldsymbol{O}}{\bigcirc}$ Strongly sloping	
O Granular, and/or)	⊘ Steep	
subangular blocky	_	O Very steep	
O Blocky	О О	EROSION	
O Prismatic)	O None to slight	
O Platy)	<i>O</i> Moderate	
• massive		O Severe	
C. CONSISTENCE (when moist)		O Very severe	
_	ubsoil		
Q Loose)		
))		
<i>Q</i> Friable)		
<i>Q</i> Firm)		
O Very firm	<u> </u>		
II. IN	ITERPRETAT	ON OF SOIL FACTORS	
G. SURFACE RUNOFF	J.	PERMEABILITY OF SUBSOIL	_
O Ponded		O Very slow	
O Very slow		O Slow	
O Slow		O Moderate	
O Medium		$oldsymbol{O}$ Rapid	
O Rapid	K.	FACTORS LIMITING LAND U	ISE
O Very Rapid		O Available moisture hol	ding capacity
H. SITE DRAINAGE		O Movement of air, moist	ture and roots
O Poor		O Water erosion hazard	
<i>O</i> Fair		O Wind erosion hazard	
○ Good		○ Workability	
O Excessive		O Depth	
I. INFILTRATION RATE INTO SUR	RFACE	O Slope	
O Very Slow	L.	LAND USE SUITABILITY	
O Slow		O Suitable for cultivation	
O Moderate		O Not suitable for cultiva	
O Rapid			

Land Judging Scorecard-Intermediate

Contestant Name		Site N	County	
	l.	SOIL	FACTORS	
		_		
A. TEXTURE		D.	DEPTH OF	
	ubsoil		O Deep	
○ Coarse	O			erately deep
Moderately coarse	0		O Shal	
◯ Medium	000		•	shallow
Moderately fine	O	E.	SLOPE	
O Fine	0			rly level
B. STRUCTURE				tly sloping
SURFACE Subsoil			Q Mod	lerately sloping
Single grained	0			ngly sloping
○ Granular, and/or	0		O Stee	p P
subangular blocky			O Very	v steep
O Blocky	0	F.	EROSION	
O Prismatic	0		O Non	e to slight
O Platy	000		O Mod	erate
O Massive O			O Seve	ere
C. CONSISTENCE (when moist)			O Very	v severe
	Subsoil		_	
O Loose	0			
O Very friable	0			
O Friable	0			
O Firm	000			
O Very firm	0			
II.	INTERPRE	TATIC	ON OF SOIL	FACTORS
G. SURFACE RUNOFF		J.	PERMEABI	LITY OF SUBSOIL
○ Ponded			o Very s	low
○ Very slow			o Slow	
o Slow			o Moder	ate
o Medium			o Rapid	
⊙ Rapid			-	LIMITING LAND USE
○ Very Rapid				ble moisture holding capacity
H. SITE DRAINAGE				nent of air, moisture and roots
o Poor				erosion hazard
o Fair				erosion hazard
			o Worka	
o Excessive			o Depth	,
I. INFILTRATION RATE INTO SURFACE			o Slope	
○ Very Slow			•	E SUITABILITY
o Slow		L.		le for cultivation
o Moderate				itable for cultivation
o Rapid				