

lowa Soil Judging Scorecard

Contestant Name	Contestant Number
School Name	Soil Site Number

See Soil Judging in Iowa, CROP 3168A, for interpretation of this form. Mark only one box per question.

PART I. SURFACE FEATURES	2 POINTS	PART II. CONTINUED	
1. LANDSCAPE POSITION	2101110	11. SOIL STRUCTURE OF SURFACE HORIZON	
Upland	a 🔲	Granular a 🔲	_
Intermittent drainageways	b 🗆	Blocky b	
Footslope	c 🗎	Prismatic c \square	
Terrace	d 🗆	Platy d	
Floodplain	e 🗆	Structureless e	
2. SLOPE	e П	12. STRUCTURE OF THE B HORIZON (OR IF C IS ABSENT)	
		Granular a \square	_
Nearly level, 0-2%	a 🔲	Blocky b	
Gently sloping, 2-5%	b 🔲	Prismatic c 🗆	
Moderately sloping, 5-9%	c 🔲		
Strongly sloping, 9-14%	d□	Platy d Characteristics are sized a resistant.	
Steep, greater than 14%	e 🔲	Structureless (massive or single grained) e	
PART I TOTAL		13. SOIL ORDER (CURRENT)	_
PART II. SOIL FEATURES—THE PROFILE	17 POINTS	Vertisol a 🗆	
3. MOIST COLOR OF A1 OR AP		Mollisol b 🔲	
Dark	a 🔲	Alfisol c 🔲	
Moderately dark	b 🗖	Inceptisol d 🗖	
Light	c \square	Entisol e 🗆	
Very light	d 🗖	14. SOIL PARENT MATERIAL—CAN MARK 2	_
4. E HORIZON PRESENT	- <u>-</u>	Glacial till or local sediments from glacial till a \Box	
Yes	a 🔲	Loess b □	
No	БП	Alluvium or colluvium c \square	
5. THICKNESS OF A HORIZON OR A+E HORIZONS	× 🗖	Residuum d \square	
Thick, more than 12"	a 🔲	15. NATIVE VEGETATION	_
Moderately thick, 7-12"	БП	Transition a \square	
	c \square	Prairie b 🗆	
Moderately thin, 3-7"		Forest c \Box	
Thin, less than 3"	d 🔲	16. SURFACE DRAINAGE	
6. TEXTURE OF A HORIZON		Rapid a \square	_
Coarse	a 🔲	Medium b	
Moderately coarse	b 🔲	Slow c	
Medium	c 🔲	Ponded d	
Moderately fine	d 🔲	17. INTERNAL DRAINAGE	
Fine	e 🗆		-
7. B HORIZON PRESENT			
Yes	a 🔲	Well drained b	
No	b 🗖	Moderately well drained c	
8. C HORIZON PRESENT		Somewhat poorly drained d	
Yes	a 🔲	Poorly or very poorly drained e	
No	b 🗖	18. EROSION CLASS	_
9. MOIST COLOR OF B HORIZON (OR C HORIZON IF B IS ABSENT)		Overwash a \square	
Uniform brown or dark brown or strong brown	a 🔲	Uneroded or slightly eroded b	
Uniform brown or dark brown or strong brown/includes olive or yellowish or reddish cast or tints or other redox features		Moderately eroded c □	
or yellowish or reddish cast or tints or other redox features	b 🔲	Severely eroded d	
Grayish brown or olive gray, no redox features	c 🗆	Gullied land e □	
Grayish brown or olive gray with gray or rust redox features	d 🔲	19. CALCAREOUS SURFACE SOIL	_
Gray with redox features	e 🔲	Yes a □	
Uniform gray	f 🔲	No b □	
Black	g 🗖		
10. TEXTURE OF B HORIZON (OR C HORIZON IF B IS ABSENT OR BURIED A I	F 24" OVERWASH)	20. STONINESS OR ROCKINESS	_
Coarse	a 🔲	Yes a □	
Moderately coarse	b 🗖	No b □	
Medium	с 🗖		
Moderately fine	d 🔲	PART II TOTAL	
Fine	e 🔲		

PART III. LAN	ID CAPABILITY CLASSIFI	CATION AND PR	ODUCTIVITY POTENTIAL	4 POINTS
	ABILITY CLASS			
II. : III. IV. :	Few limitations Some limitations Severe limitations Very severe limitations	a		
VI. VII. VIII	Noncropland Unsuited for cultivation Restricted for agriculture . Nonagricultural	e		
22. LAND CAPA		a 🗆		
Sub	oclass: e erosion w wetness s soil c climate	b		
	VITY POTENTIAL			
Lov	dium	a □ b □ c □ d □		
		αЫ		
PA	RT III TOTAL			
PART IV. EVA	LUATION OF MANAGEM	IENT PRACTICES	8	7 POINTS
	aintain or improve soil			
24. SURFACE D				
Yes No	i	a □ b □		
	CE DRAINAGE	и П		
Yes		a 🔲		
No		b 🔲		
26. GRASS WA				
Yes No	;	a 🔲		
27. CONTOURI	NG	b 🗖		
Yes		a 🗆		-
No		b 🗖		
28. STRIP CRO				
Yes	;	a 🔲		
No	,	b 🗖		
29. TERRACINO Yes		a 🗆		
No	•	b 🗖		
30. COVER CRO)P	- -		
Yes No		a 🔲 b 🔲		
DAI	DT IV TOTAL			

PART V. SUITABILITY OF SO	OILS FO	R NON	NAGRICULTURAL USES	10 POINTS
Limitations for building sites fo	r houses	with ba	sements and septic systems	
31. BEDROCK				
Suitable	a 🔲			
Not suitable 32. EVIDENCE OF WATER TABI	_ b □			
Suitable	a 🗆			
Not suitable	bП			
33. FLOODING	υЦ			
Suitable	а 🗆			
Not suitable	b \square			
34. SHRINK-SWELL				
Suitable	a 🔲			
Not suitable	b 🔲			
Soil Health				
35. ROOTING OR COMPACTION	V			
	a 🔲	b 🔲	c 🗖	
36. AGGREGATE STABILITY				
	a 🔲	b 🔲	с 🗖	
37. STRUCTURE OF A		. —		
	а 🔲	b 🗖	c 🗖	
Limitations of topsoil				
38.TEXTURE GROUP				
Suitable	а 🔲			
Not Suitable	b 🔲			
39. THICKNESS OF A HORIZON				
Suitable	a□			
Not Suitable 40. EVIDENCE OF WATER TABI	b 🗆			
Suitable	a 🗆			
Not Suitable	bП			
Not Suitable	υЦ			
PART V TOTAL				
CCODING CLIMMADY				
SCORING SUMMARY				
PART I				
PART II PART III				
PART IV				
PARTV				
TOTAL SCORE				