











Logging Reference Sheet - Unconsolidated Sediments

Shading Log Key

Relative grain size abundance

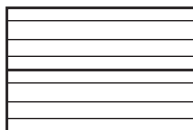
	dominant (> 50%)
	secondary (5-50%)
	minor (< 5%)

Sediment Type

	clay		sand
	silt		gravel
	breccia		diamict
	conglomerate		

Bedding & Sedimentary Structure Examples

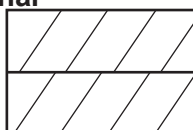
parallel stratification



climbing ripples



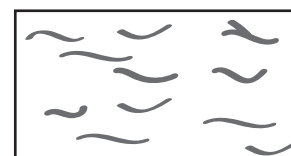
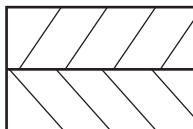
cross-stratification, planar



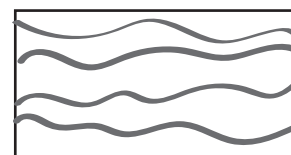
cross-stratification, curved



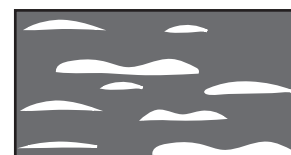
cross-stratification, bidirectional



lenticular bedding



wavy bedding



flaser bedding

Sorting

Very Well

nearly all grains have the same size

Well Sorted

most grains are in a single grain size class with few outliers

Moderately Sorted

more than one grain size present but one prevails

Poorly Sorted

several grain sizes present, none prevail

Very Poorly Sorted

wide spectrum of different grain sizes

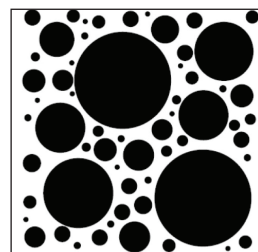
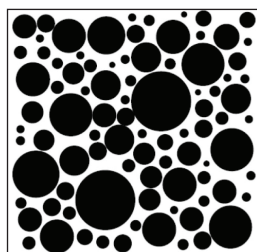
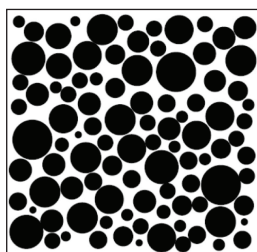
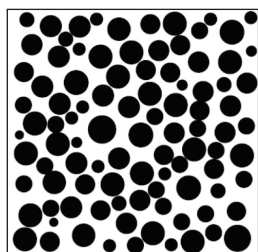
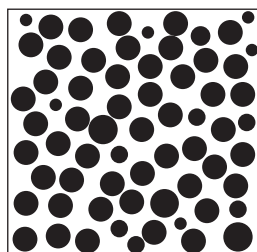


Figure modified from Gary Nichols (2023), *Sedimentology and Stratigraphy*, Third Edition.

Roundness













	Well rounded	Rounded	Sub-rounded	Sub-angular	Angular	Very angular
Low sphericity						
High sphericity						

Figure modified from Gary Nichols (2023), *Sedimentology and Stratigraphy*, Third Edition. Classification originally from Pettijohn et al. (1987).

Consistency

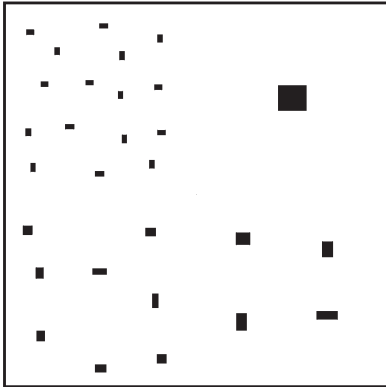
Loose	Specimen not obtainable
Very friable	Fails under very slight force
Friable	Fails under slight force
Firm	Fails under moderate force
Very firm	Fails under strong force

from Schoeneberger et al. 2012, Field book for describing and sampling soils, version 3.0.

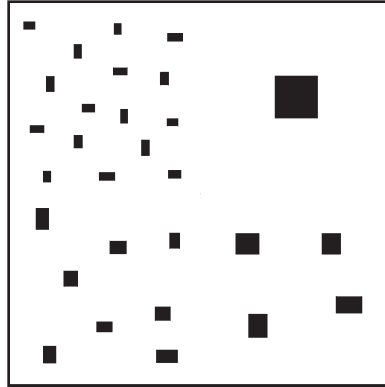
Percent of Area Covered

Within each large box a quadrant contains the same total area covered but contains different object sizes and numbers. (from Schoeneberger et al. 2012, Field book for describing and sampling soils, version 3.0.)

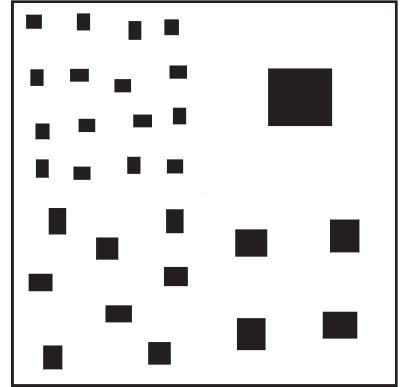
2%



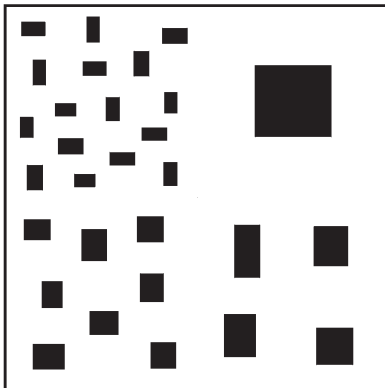
5%



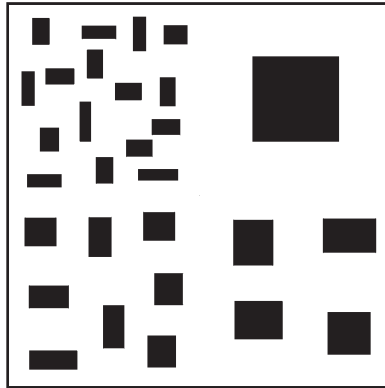
10%



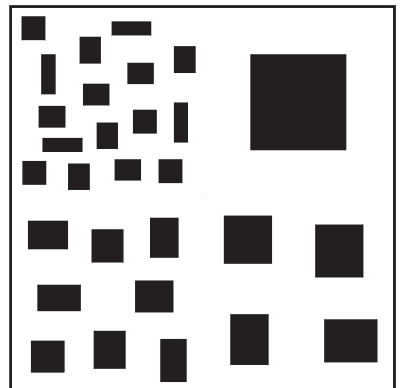
15%



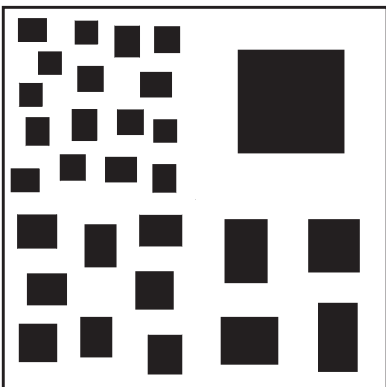
20%



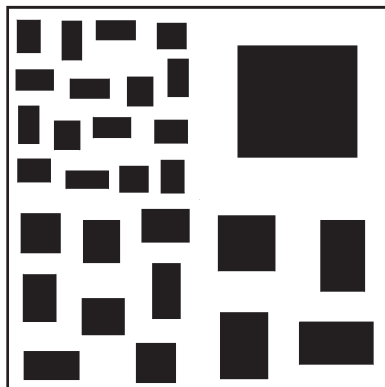
25%



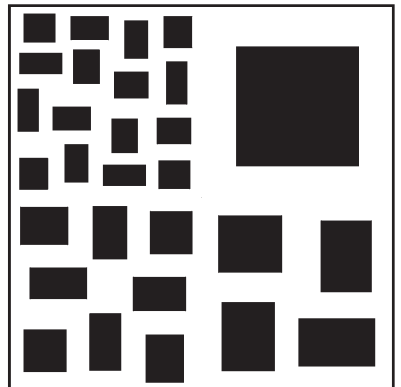
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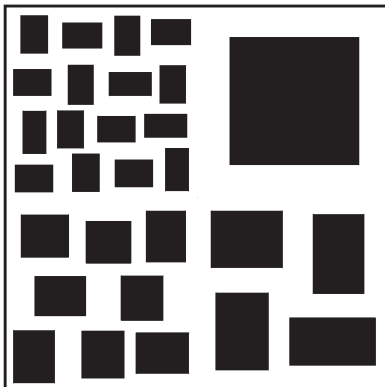
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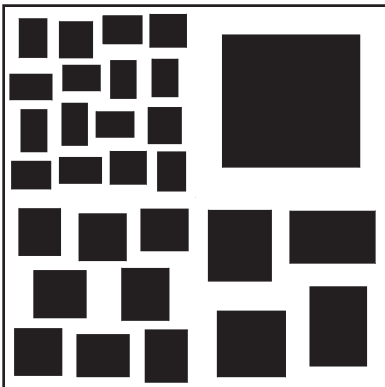
40%



45%



50%



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