

Table 1 - Comparison of Particle Sizes

CLAY												SILT				SAND						GRAVEL						System
U. S. STANDARD SIEVE SIZE												200	140	100	60	30	20	10	4	3/8	1/2	3/4	1	2	4			
Colloids*	1 Clay	2 Silt	3 Fine Sand				Coarse Sand				Fine Gravel		Medium Gravel	Coarse Gravel	Boulders	A A S H T O												
Clay	Silt		Very Fine Sand	Fine Sand	Medium Sand	Coarse Sand	Very Coarse Sand	Fine Gravel		Coarse Gravel		Cobbles	U S D A															
Clay	Silt		Fine Sand				Coarse Sand				Gravel				F A A													
Clay**	Silt**		Fine Sand		Medium Sand		Coarse Sand	Fine Gravel	Coarse Gravel	Cobbles	U S C S																	
GRAIN SIZE IN MILLIMETERS																												
* Colloids included in clay fraction in test reports.																												
** The LL and PI of "Silt" plot below the "A"-line on the Plasticity Chart and the LL and PI of "Clay" plot above the "A"-line, or in the hatched zone.																												

SOIL MECHANICS LABORATORY  
FORT WORTH, TEXAS

PARTICLE SIZES

\* Colloids included in clay fraction in test reports.

\*\* The LL and PI of "Silt" plot below the "A"-line on the Plasticity Chart and the LL and PI of "Clay" plot above the "A"-line, or in the hatched zone.

#### ACTIVITY 4 - USDA textural classification chart

In the USDA textural triangle below, the corners represent 100 percent sand, silt, or clay, as indicated. (Gravel and organic soils are not included.) The triangle is divided into 10-percent portions of clay, silt, and sand. Heavy lines show the divisions between 12 basic soil textural classes. If the percentage for any two of the soil separates are known, the correct textural class can be determined. However, the summation of the three percentages must total 100 percent.

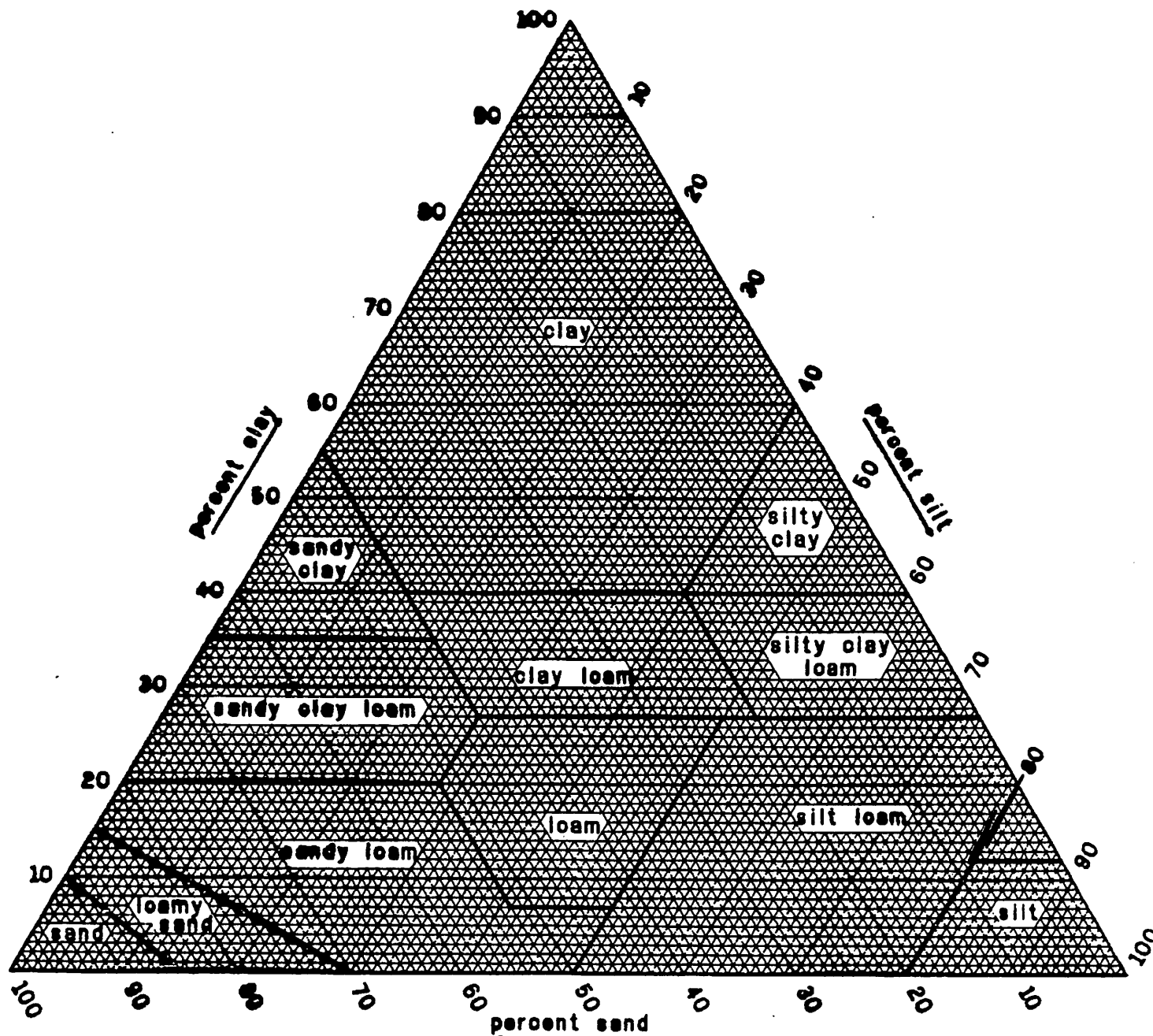


Figure 2. USDA Textural Triangle