



Soil Texture

Soil separate	S i z e		Manual Test by touch	Water and nutrients retention		Temperature factor	
	USDA (ISSS)			properties	consequence	properties	consequence
	max	min					
SAND Very fine Fine Medium Coarse Very coarse	2mm 100µm 250µm 500µm 1mm 2mm	50(20)µ 50µm 100µm 250µm 500µm 1mm	gritty; coarse	>drains easily and quickly	>Needs frequent watering and fertilization	>Warms up easily in the spring	>early planting
SILT	50(20)-2 µm		slippery smooth,				
 CLAY	under 2 µm		>sticky and plastic when wet	>Poor drainage >Organic matter and added nutrients can bind strongly	>Less watering and fertilization >Long term fertilization >Lack of O ₂ for roots.	>Warms up slowly in the spring. >Subject to heaving, craking and crusting	>Latter planting >Tearing of plant parts >Root penetration and seedling emergence impeded



Barrel
 Platte
 COIN