,		.,,	4		
type	name	label	hint	relevant	calculation
start	start				
end	end				
today	today				
simserial	simserial				
subscriberid	subscriberid				
deviceid	deviceid				
integer	sample_id	Sample ID number			
select_one	6-14	Character State Control Control			
collection_team	field_sampler_names	Choose the field sampling team.			
text	field_sampler_names_other	You said other. Please enter the names of the field team that collected this sample.		\${field_sampler_names} = 'other'	
date	date_collected	Date sample collected		January - out	
select_one testing_team		Lab tester name			
		You said other. Please enter the names of the field team			
text	tester_name_other	that did the sieve testing of this sample.		\${tester_name} = 'other'	
date	date_analysis	Date of lab analysis			
		Please take the masses of the sieves you will use for the			
note	weigh_sieves_top	TOP sample.			
integer	mass_4_75_sieve_top	What is the mass of the 4.75mm sieve?			
integer	mass_2_36_sieve_top	What is the mass of the 2.36mm sieve?			
integer	mass_1_18_sieve_top	What is the mass of the 1.18mm sieve?			
integer	mass_0_6_sieve_top	What is the mass of the 0.6mm sieve?			
integer	mass_0_425_sieve_top	What is the mass of the 0.425mm sieve?			
integer	mass_0_3_sieve_top	What is the mass of the 0.3mm sieve?			
integer	mass_0_15_sieve_top	What is the mass of the 0.15mm sieve?			
integer	mass_0_075_sieve_top	What is the mass of the 0.075mm sieve?			
integer	mass_bottom_pan_top	What is the mass of the bottom pan?			
		Please take the masses of the sieves you will use for the			
note	weigh_sieves_bottom	bottom sample.			<u> </u>
integer	mass_4_75_sieve_bottom	What is the mass of the 4.75mm sieve?		-	
integer	mass_2_36_sieve_bottom	What is the mass of the 2.36mm sieve?			+
integer	mass_1_18_sieve_bottom	What is the mass of the 1.18mm sieve?			
integer	mass_0_6_sieve_bottom	What is the mass of the 0.6mm sieve?			
integer	mass_0_425_sieve_bottom	What is the mass of the 0.425mm sieve?			
integer	mass_0_3_sieve_bottom	What is the mass of the 0.3mm sieve?			
integer	mass_0_15_sieve_bottom	What is the mass of the 0.15mm sieve?			
integer	mass_0_075_sieve_bottom	What is the mass of the 0.075mm sieve?			
integer	mass_bottom_pan_bottom	What is the mass of the bottom pan?			
note	top_sample_note	Sample A: Top sample			
integer	mass_beginning_top	Mass of Entire TOP Sample (straight from the bag) at the beginning of the test	This should be as close as possible to 500g (please be careful to measure this correctly, but if you cannot get exactly 500g, enter the actual mass).		
integer	mass_4_75_top	What is the mass of the sample in the 4.75mm sieve?	Include the mass of the sieve.		
calculate	mass_4_75_top_soil_retained	Mass of soil retained in 4.75mm sieve			\${mass_4_75_top} - \${mass_4_75_sieve_top}
note	mass_4_75_top_soil_retained_note	The 4.75mm top sieve had \$ {mass_4_75_top_soil_retained}g of soil in it.			
note	Mass_4_75_top_soil_retained_fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_4_75_top_soil_retained} < -1	
integer	mass_2_36_top	What is the mass of the sample in the 2.36mm sieve?	Include the mass of the sieve.		
calculate	mass_2_36_top_soil_retained				\${mass_2_36_top} - \${mass_2_36_sieve_top}
	2 26 to IIt	The 2.36mm top sieve had \$			
note	mass_2_36_top_soil_retained_note	{mass_2_36_top_soil_retained}g of soil in it.			
note	Mass_2_36_top_soil_retained_fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_2_36_top_soil_retained} < -1	
integer	mass_1_18_top	What is the mass of the sample in the 1.18mm sieve?	Include the mass of the sieve.	\$[iiiass_z_so_top_soit_retained] < -1	
calculate	mass_1_18_top_soil_retained	What is the mass of the sample in the month sieve:	include the mass of the sieve.		\${mass_1_18_top} - \${mass_1_18_sieve_top}
Catculate	mass_i_io_top_soit_retained	7110			\$\finass_1_10_topy - \$\finass_1_10_sieve_topy
note	mass_1_18_top_soil_retained_note	The 1.18mm top sieve had \$ {mass_1_18_top_soil_retained}g of soil in it.			
		STOP! This measurement shows the full sieve having less			<u> </u>
note	Mass_1_18_top_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_1_18_top_soil_retained} < -1	
integer	mass_0_6_top	What is the mass of the sample in the 0.6mm sieve?	Include the mass of the sieve.		
calculate	mass_0_6_top_soil_retained				\${mass_0_6_top} - \${mass_0_6_sieve_top}
		The 0.6mm top sieve had \$,
note	mass_0_6_top_soil_retained_note	{mass_0_6_top_soil_retained}g of soil in it.			
		STOP! This measurement shows the full sieve having less			
note	Mass_0_6_top_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_6_top_soil_retained} < -1	
integer	mass_0_425_top	What is the mass of the sample in the 0.425mm sieve?	Include the mass of the sieve.		\${mass_0_425_top} - \$
calculate	mass_0_425_top_soil_retained				{mass_0_425_sieve_top}
		The 0.425mm top sieve had \$			
note	mass_0_425_top_soil_retained_note	{mass_0_425_top_soil_retained}g of soil in it.			
	0.635	STOP! This measurement shows the full sieve having less		g(0 625 to 1 1 1	
note	mass_0_425_top_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.	badada da arang Afrika	\${mass_0_425_top_soil_retained} < -1	
integer	mass_0_3_top	What is the mass of the sample in the 0.3mm sieve?	Include the mass of the sieve.		
calculate	mass_0_3_top_soil_retained				\${mass_0_3_top} - \${mass_0_3_sieve_top}
note	mass_0_3_top_soil_retained_note	The 0.3mm top sieve had \$ {mass_0_3_top_soil_retained}g of soil in it. STOP! This measurement shows the full sieve having less			
note	Mass_0_3_top_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_3_top_soil_retained} < -1	
integer	mass_0_15_top	What is the mass of the sample in the 0.15mm sieve?	Include the mass of the sieve.		
calculate	mass_0_15_top_soil_retained				\${mass_0_15_top} - \${mass_0_15_sieve_top}
note	mass_0_15_top_soil_retained_note	The 0.15mm top sieve had \$ {mass_0_15_top_soil_retained}g of soil in it.			
	M 0.15 4	STOP! This measurement shows the full sieve having less		firm 0 If her all out 1 0 1	
note	Mass_0_15_top_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.	to de de la companya	\${mass_0_15_top_soil_retained} < -1	+
integer	mass_0_075_top	What is the mass of the sample in the 0.075mm sieve?	Include the mass of the sieve.		\${mass_0_075_top} - \$
calculate	mass_0_075_top_soil_retained				{mass_0_075_sieve_top}
	0.075 1	The 0.075mm top sieve had \$			
note	mass_0_075_top_soil_retained_note	{mass_0_075_top_soil_retained}g of soil in it.			
note	Mass_0_075_top_soil_retained_fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_075_top_soil_retained} < -1	
note	wass_u_u/s_tup_soil_retained_fail			#(inapp_0_0/0_top_soit_retained) < -1	
integer	mass_0_top	What is the mass of the remaining sample in the bottom pan?	Include the mass of the sieve.		
calculate	mass_0_top_soil_retained	1			\${mass_0_top} - \${mass_bottom_pan_top}
	,		}		
		The Oton sieve had \$(mass O ton roll retained)a of sall			
	mass_0_top_soil_retained_note	The 0 top sieve had \${mass_0_top_soil_retained}g of soil in it.			
note	mass_0_top_soil_retained_note	in it. STOP! This measurement shows the full sieve having less			
	mass_0_top_soil_retained_note Mass_0_top_soil_retained_fail			\$[mass_0_top_soil_retained] < -1	

calculate					\${mass_4_75_top_soil_retained} + \$ {mass_2_36_top_soil_retained} + \$
calculate					
calculate					{mass_1_18_top_soil_retained} + \$
calculate					{mass_0_6_top_soil_retained} + \$ {mass_0_425_top_soil_retained} + \$
calculate					{mass_0_3_top_soil_retained} + \$ {mass_0_15_top_soil_retained} + \$
, corcororc	mass_soil_top	Total mass of soil retained top sample			{mass_0_075_top_soil_retained} + \$ {mass_0_top_soil_retained}
	mass_suc_top	The top sample, adding up all of the samples after			(mass_o_top_soit_retained)
note	mass_soil_top_note	sieving, retained \$(mass_soil_top)g of soil.			
calculate	mass_loss_top_sample				\${mass_beginning_top} - \${mass_soil_top} \${mass_loss_top_sample} div \$
calculate	percentage_mass_loss_top_sample				{mass_beginning_top} * 100
		Your sample lost \${mass_loss_top_sample}g during sieving, which is \${percentage_mass_loss_top_sample}%			
noto	mass_loss_top_sample_note	of the total. If this is more than 2%, this is not acceptable and you must redo the testing.			
note	mass_toss_top_sample_note	STOP! Your top mass difference after sieving is more than			
note	top_fail	2%. REDO THIS SAMPLE!		\${percentage_mass_loss_top_sample} > 2	
note	top_fail_2	STOP! Your top mass difference after sieving is more than 2%. REDO THIS SAMPLE!		\${percentage_mass_loss_top_sample} < -2	
note	bottom_sample_note	Sample A: bottom sample			
			This should be as close as possible to 500g (please be careful to measure this correctly,		
integer	mass_beginning_bottom	Mass of Entire BOTTOM Sample (straight from the bag) at the beginning of the test	but if you cannot get exactly 500g, enter the actual mass).		
integer	mass_4_75_bottom	What is the mass of the sample in the 4.75mm sieve?	Include the mass of the sieve.		
calculate	mass_4_75_bottom_soil_retained	Mass of soil retained in 4.75mm sieve			\${mass_4_75_bottom} - \$ {mass_4_75_sieve_bottom}
		The 4.75mm bottom sieve had \$			production,
note	mass_4_75_bottom_soil_retained_note	[mass_4_75_bottom_soil_retained]g of soil in it.			
note	Mass_4_75_bottom_soil_retained_fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_4_75_bottom_soil_retained} < -1	
integer	mass_2_36_bottom	What is the mass of the sample in the 2.36mm sieve?	include the mass of the sieve.		f
calculate	mass_2_36_bottom_soil_retained				\${mass_2_36_bottom} - \$ {mass_2_36_sieve_bottom}
		The 2.36mm bottom sieve had \$			
note		[mass_2_36_bottom_soil_retained]g of soil in it. STOP! This measurement shows the full sieve having less			
note		mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_2_36_bottom_soil_retained} < -1	
integer	mass_1_18_bottom	What is the mass of the sample in the 1.18mm sieve?	Include the mass of the sieve.		\${mass_1_18_bottom} - \$
calculate	mass_1_18_bottom_soil_retained				{mass_1_18_sieve_bottom}
note	mass_1_18_bottom_soil_retained_note	The 1.18mm bottom sieve had \$ {mass_1_18_bottom_soil_retained}g of soil in it.			
		STOP! This measurement shows the full sieve having less			
note integer	Mass_1_18_bottom_soil_retained_fail mass_0_6_bottom	mass than the empty sieve. REDO THIS MEASUREMENT. What is the mass of the sample in the 0.6mm sieve?	Include the mass of the sieve.	\${mass_1_18_bottom_soil_retained} < -1	
		what is the mass of the sample in the commission.	metade die mass of die sieve.	-	\${mass_0_6_bottom} - \$
calculate	mass_0_6_bottom_soil_retained	The 0.6mm bottom sieve had \$			{mass_0_6_sieve_bottom}
note	mass_0_6_bottom_soil_retained_note	{mass_0_6_bottom_soil_retained}g of soil in it.			
note	Mass_0_6_bottom_soil_retained_fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_6_bottom_soil_retained} < -1	
integer	mass_0_425_bottom		Include the mass of the sieve.	Jinass_0_0_bottom_soic_retained; < -1	
calculate	wass 0 635 battom sail retained				\${mass_0_425_bottom} - \$
calculate	mass_0_425_bottom_soil_retained mass_0_425_bottom_soil_retained_no	The 0.425mm bottom sieve had \$			{mass_0_425_sieve_bottom}
note	te	{mass_0_425_bottom_soil_retained}g of soil in it.			
note	Mass_0_425_bottom_soil_retained_fai	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_425_bottom_soil_retained} < -1	
integer	mass_0_3_bottom	What is the mass of the sample in the 0.3mm sieve?	Include the mass of the sieve.		
calculate	mass_0_3_bottom_soil_retained				\${mass_0_3_bottom} - \$ {mass_0_3_sieve_bottom}
	0.3 h	The 0.3mm bottom sieve had \$			
note	mass_0_3_bottom_soil_retained_note	{mass_0_3_bottom_soil_retained}g of soil in it. STOP! This measurement shows the full sieve having less			
note	Mass_0_3_bottom_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_3_bottom_soil_retained} < -1	
integer	mass_0_15_bottom	What is the mass of the sample in the 0.15mm sieve?	Include the mass of the sieve.		\${mass_0_15_bottom} - \$
calculate	mass_0_15_bottom_soil_retained				{mass_0_15_sieve_bottom}
note	mass 0 15 bottom soil retained note	The 0.15mm bottom sieve had \$ {mass_0_15_bottom_soil_retained}g of soil in it.			
		STOP! This measurement shows the full sieve having less			
note integer	Mass_0_15_bottom_soil_retained_fail mass_0_075_bottom	mass than the empty sieve. REDO THIS MEASUREMENT. What is the mass of the sample in the 0.075mm sieve?	Include the mass of the sieve.	\${mass_0_15_bottom_soil_retained} < -1	
		3 die mass of die sample in die 0.073Hill Sieve?			\${mass_0_075_bottom} - \$
calculate	mass_0_075_bottom_soil_retained mass_0_075_bottom_soil_retained_no	The 0.075mm bottom sious had \$			{mass_0_075_sieve_bottom}
note	mass_U_U/5_bottom_soil_retained_no te	{mass_0_075_bottom_soil_retained}g of soil in it.			
note	Mass 0 075 hottom soil retained fail	STOP! This measurement shows the full sieve having less mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_075_bottom_soil_retained} < -1	
		What is the mass of the remaining sample in the bottom		70	
integer	mass_0_bottom	pan?	Include the mass of the sieve.	-	Simace O bottom) ©
calculate	mass_0_bottom_soil_retained				\${mass_0_bottom} - \$ {mass_bottom_pan_bottom}
note	mass_0_bottom_soil_retained_note	The 0 bottom sieve had \$ {mass_0_bottom_soil_retained}g of soil in it.			
		STOP! This measurement shows the full sieve having less			
note	Mass_0_bottom_soil_retained_fail	mass than the empty sieve. REDO THIS MEASUREMENT.		\${mass_0_bottom_soil_retained} < -1	
					\${mass_4_75_bottom_soil_retained} + \$ {mass_2_36_bottom_soil_retained} + \$
					<pre>(mass_1_18_bottom_soil_retained) + \$ (mass_0_6_bottom_soil_retained) + \$</pre>
					{mass_0_425_bottom_soil_retained} + \$ {mass_0_3_bottom_soil_retained} + \$
					{mass_0_15_bottom_soil_retained} + \$
calculate	mass_soil_bottom	Total mass of soil retained bottom sample			{mass_0_075_bottom_soil_retained} + \$ {mass_0_bottom_soil_retained}
		The bottom sample, adding up all of the samples after			
note	mass_soil_bottom_note	sieving, retained \${mass_soil_bottom}g of soil.			\${mass_beginning_bottom} - \$
calculate	mass_loss_bottom_sample				{mass_soil_bottom}
calculate	percentage_mass_loss_bottom_sampl e				\${mass_loss_bottom_sample} div \$ {mass_beginning_bottom} * 100
		Your sample lost \${mass_loss_bottom_sample}g during			
		sieving, which is \$ {percentage_mass_loss_bottom_sample}% of the total. If			
note	mass_loss_bottom_sample_note	this is more than 2%, this is not acceptable and you must redo the testing.			
		STOP! Your bottom mass difference after sieving is more			
note	bottom_fail	than 2%. REDO THIS SAMPLE! STOP! Your bottom mass difference after sieving is more		\${percentage_mass_loss_bottom_sample} > 2	
note	bottom_fail_2	than 2%. REDO THIS SAMPLE!		\${percentage_mass_loss_bottom_sample} < -2	