

RST Quiz 6
Calculations

Name _____

1)	Component Label	First Analysis	Second Analysis	Difference	Average	Tolerance
	Corn	99.00	99.15			
	Other crop seed	0.25	0.20			
	Inert matter	0.50	0.55			
	Weed seed	0.25	0.10			

2)	Component Label	First Analysis	Second Analysis	Difference	Average	Tolerance
	Alfalfa	98.00	98.50			
	Other crop seed	1.00	0.50			
	Inert matter	0.50	0.25			
	Weed seed	0.50	0.25			

3)	Component Label	First Analysis	Second Analysis	Difference	Average	Tolerance
	Soybeans	99.5	98.00			
	Other crop seed	0.00	1.00			
	Inert matter	0.25	0.10			
	Weed seed	0.25	0.90			

4) In alfalfa, calculate whether or not the number of dodder seeds is within tolerance:

	Labeled seeds/lb	Analysis	Seeds/50 gr	Tolerance
a)	15	14		
b)	10	7		
c)	2	5		

5) Determine whether or not the following germination's are out of tolerance:

	<u>Labeled</u>	<u>Analysis</u>	<u># of Seed tested</u>	<u>Tolerance</u>
a)	99	94	200	
b)	82	97	400	
c)	93	99	400	

6) Multiple unit calculation for Festuca rubra:

Purity analysis results:

<u>Components</u>	<u>Weight (gr)</u>	<u>Weight</u>	<u>Percentages</u>
Single units	2.953		
Multiple units	0.192		
Other crop	0.009		
Inert matter	0.010		
Weed seed	0.006		

7) Calculate the % annual and perennial ryegrass:

Fluorescence test = 83.87%

Pure ryegrass = 98.71%

Variety fluorescence (annual) = 92%

Variety fluorescence (perennial) = 3%