

RST Quiz 18

Calculations

Sixth Quarter

Name _____

1) Calculate the % perennial and annual ryegrass with the following information:

Fluorescence test = 82.50%
Pure Ryegrass = 98.75%
Variety fluorescence, annual 90.00%
Variety fluorescence, perennial 5.0%

2) Calculate the % perennial and annual ryegrass with the following information:

Label: Annual Ryegrass	59.75%
Creeping Red Fescue	19.00%
Variety A Perennial Ryegrass	9.85%
Variety B Perennial Ryegrass	9.50%

Laboratory test results: Test Fluorescence = 82.75%
 Pure Ryegrass = 78.15%

AOSCA List: Variety A Perennial Ryegrass VFI = 0.00%
 Variety B Perennial Ryegrass VFI = 2.50%

3) Provide label information for a lot of Frank perennial ryegrass. Frank perennial ryegrass has a published VFI level of 0.75%. You have the following information:

% Germination	=	98 (392/400)
% Test Fluorescence	=	2.55 (10/392)
% Pure ryegrass	=	99.25
% Other Crop	=	0.00
% Inert Matter	=	0.75
% Weed Seed	=	0.00

Calculate	Pure seed
	Other Crop
	Inert Matter
	Weed Seed

4) Determine whether or not a germination retest is necessary based on the following results: (SATM p 92)

	<u>Rep 1</u>	<u>Rep 2</u>	<u>Rep 3</u>	<u>Rep 4</u>	<u>Average</u>	<u>Retest</u>
a)	98	95	90	96		
b)	92	76	87	93		
c)	88	84	97	85		
d)	92	85	80	94		
e)	91	99	92	85		

5)

Label	First	Second			
Component	Analysis	Analysis	Difference	Average	Tolerance
Corn	99.00	98.00			
Other crop seed	0.25	0.75			
Inert matter	0.50	0.75			
Weed seed	0.25	0.50			

6)

Label	First	Second			
Component	Analysis	Analysis	Difference	Average	Tolerance
Alfalfa	99.00	98.50			
Other crop seed	0.50	0.50			
Inert matter	0.25	0.25			
Weed seed	0.25	0.25			

7)

Label	First	Second			
Component	Analysis	Analysis	Difference	Average	Tolerance
Soybeans	99.25	97.50			
Other crop seed	0.50	1.00			
Inert matter	0.25	0.50			
Weed seed	0.00	1.00			