

Team Sample Questions

LESCO INC., 1385 East 36th Street, Cleveland, OH 44114			
Product:	TALL FESCUE SELECT SEED BLEND		
LOT NUMBER:	M123M-11-916	Item:	056625
% PURITY	Component	% GERM	ORIGIN
36.52	Padre Tall Fescue	90	OR
32.66	Biltmore Tall Fescue	90	OR
29.56	Compete Tall Fescue	90	OR
% OTHER INGREDIENTS:		NOXIOUS WEED SEEDS:	
0.00 OTHER CROP SEEDS		NONE FOUND	
1.26 INERT MATTER			
0.00 WEED SEED			
DATE TESTED:	Sep-11		
IN AZ/CO/CA/MN/NH/NJ/NV/NY/OH/PA/VT: SELL BY 12/12			
Net Weight:	50 lbs		
AMS: 635	MM		

1. What is the overall weight of this seed bag?
 Answer: **50 pounds**
2. What is the overall content percentage of tall fescue?
 Answer: **98.74%**
3. What is the overall weight of tall fescue in this bag?
 Answer: **49.37 pounds**
 Process: 50 pound bag x .9874 purity
4. How many pounds of this bag are pure live seed (PLS) of tall fescue?
 Answer: **44.433 pounds PLS**
 Process: .3652 purity padre x .9 germ x 50 pound weight = 16.434 lb
 .3266 purity Biltmore x .9 germ x 50 pound weight = 14.697 lb
 .2956 purity compete x .9 germ x 50 pound weight = 13.302 lb
 16.434 lb + 14.697 lb + 13.32 lb = 44.451 lb PLS
5. If you are seeding at a rate of 11 pounds of PLS tall fescue per 1000 sq feet on 2 acres, how many bags of seed would you need? Round up to nearest whole bag(assume you are using bags of seed that all have a tag as above)
 Answer: **22 bags**
 Process: 2 acres x 43,560 sq ft per acre = 87,210 sq feet

$$\left(\frac{87210 \text{ square feet}}{1}\right) \times \left(\frac{11 \text{ pounds PLS}}{1000 \text{ square feet}}\right) = 959.31 \text{ lbs PLS needed}$$
 959.31 lbs PLS needed / 44.433 lbs PLS per bag = 21.59 bags ~ 22 bags

6. If an individual bag costs \$40, what would the cost of the seeding from question #5 be?

Answer: **\$880**

Process: 22 bags x \$40 per bag

7. If another seeding company offers a 50 pound bag of seed with 85% purity of Tall Fescue and a germination rate of 95% at a cost of \$35, would it be cheaper to use the seed from problems #1-6 or this new company seed assuming you use the same seeding rate of 11 pounds of PLS per 1000 sq feet on 2 acres? (you can only purchase whole bags)

Answer: **No, seed from problems 1-6 is cheaper**

Process: .85 purity x .95 germ x 50 lb bags = 38.25 lbs PLS per bag

959.31 lbs PLS needed / 38.25 lbs PLS per bag = 25.08 bags ~ 26 bags

26 bags x \$35 per bag = \$910

\$880 cost from original seed < \$910 cost from new seed