Calculating Pure Live Seed (PLS) and Seeding Rates:

Almost all seed has some non-viable as well as "hard" or dormant seed. Seeding rates should be adjusted to compensate for the seed that will not germinate. Warm season grasses are usually purchased on a Pure Live Seed basis. This means that if you purchase 50 lbs of PLS, you will probably get shipped a bag containing more than 50 lbs of material. PLS is calculated as follows: % PLS= % Pure Seed x (% Germination+ % Dormant seed) For example: If you ordered 50lbs of pure live big bluestem seed and the seed tag states: PLS Calculation: % PLS= % Pure Seed [99] x (% Germination [72] + % Dormant seed [10]) % PLS= [.99] x ([.72] + [.10]) % PLS= .99 x .82 % PLS= .81 Or Pure Live Seed = 81 % 50 lbs PLS divided by .81 = 61.2 lbs Your "50 lb" bag of big bluestem seed should weigh 61.2 lbs as shipped. Seeding Rate Adjustment for PLS:

If the recommended seeding rate is 6 lbs/acre of PLS you need to adjust your actual rate planted:

6 lbs PLS/acre divided by .81 (% PLS) = 7.4 lbs/acre.

One would need to plant 7.4 lbs/acre of the seed in the bag to get 6 lbs/acre of pure live

big bluestem seed. The material in the bag should cover 8.3 acres.