

My Best Features is Greens: Nutrient Use & Requirements a GCSAA webcast with Micah Woods, Ph.D.

Please complete the following quiz and it return to GCSAA to receive your Certificate of Completion.

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Name: _____ **Member #:** _____

Phone Number or Email (in case we need to contact you): _____

- 1) When soil testing shows an element deficiency, like magnesium, but the turf is performing well means
 - a) the test was in error.
 - b) the turf doesn't need that element at the level in the conventional guideline.

- 2) Soil tests and tissue tests always show the same nutrient levels.

True False

- 3) In research conducted in 2013 in Massachusetts, when K fertilization was added based on low soil test levels
 - a) the shoot density increased.
 - b) the root growth increased.
 - c) the shoot density and root growth increased.
 - d) there were no changes to shoot density or root growth.

- 4) Sand root zones are inherently low in nutrient holding capacity because sands have a low cation exchange capacity and sands have a low surface area.

True False

- 5) In research conducted in 2013 in Florida, additional K fertilization was always shown to be beneficial for bermudagrass quality.

True False

- 6) Nitrogen controls turfgrass growth and nutrient uptake.

True False

- 7) Laboratory techniques for determining nutrient levels in soil are not accurate.

True False

- 8) Nutrient guidelines have been specifically developed for sand rootzones like those under putting greens.

True False

- 9) The temperature-based turfgrass growth potential
 - a) can help you know when to overseed.
 - b) can be calculated for warm-season turf only at this time.
 - c) can help you know how grass will grow in different parts of the world..
 - d) both a and c.

10) The temperature used for monthly growth potential calculation is the:

- a) daily high soil temperature.
- b) daily high air temperature.
- c) average air temperature.
- d) any of the above can be used.

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11) The monthly growth potential curve line for cool-season grass

- a) is the same for Portland, Oregon and Atlanta.
- b) is the same as the warm-season grass curve line for Atlanta.
- c) reflects the hot summer temperatures in Atlanta.

12) Using the nutrient reserves found in your soil isn't a replacement for adding fertilizers.

True False

13) Minimum Levels for Sustainable Nutrition (MLSN) Soil Guidelines are a sustainable approach to managing soil nutrient levels.

True False

14) Two approaches to nutrient requirements covered are:

- 1) without soil testing, apply what the grass uses.
- 2) test the soil, and only apply enough to remain above the MLSN guidelines.

Both have approximately the same cost to your facility.

True False

15) A paste extraction soil test mixes water with the soil and tests what is in the solution. Everyone agrees upon the merits of this method.

True False