Learning curve the major bump in green speed

By MARK LESLIE

MONTREAL — Operating in the fast lane of green speed, the turfgrass industry is still on the learning curve and with no final line in sight, according to Dr. James Beard.

The former Texas A&M professor told an audience of superintendents here at the Canadian Turfgrass Conference and Show: “It’s a day and age of golfers demanding fast greens. You can agree all you want about a higher height of cut, but I think the golfer will still demand fast greens. It’s here to stay.”

Beard explained changes in grass cultivars and cultural practices, especially top dressing and increased rolling, that will help superintendents cope with the higher speeds.

“Green speed differs from cultivar to cultivar,” he said. “You cannot assume that higher density equals faster speeds. High-density greens may, in fact, be slower than certain of the lower-density greens, depending on what cultural practices are used.”

Saying there is “a tremendous difference in bentgrasses,” including biomass, Beard said that for the first time researchers are able to get actual density counts. It reflects heat tolerance and the grass’s ability to be grown more easily.

“You’re going to be more successful growing greens with dense root systems,” he said.

New grasses, able to be cut at 3.2 millimeters (1/8-inch), “suddenly has been performing very well,” he said. “Times have changed. At many places, these are the grasses that will be used in the future.”

Speaking of the Penn-series bentgrasses, Beard said: “There is a learning curve on their culture. They have density that dictates different vertical cutting, top-dressing regimes and approaches in terms of nutrition. But high-density types are very impressive, very promising. They will help solve a lot of the problems on those golf courses where extraordinarily low mowing heights are demanded by the membership.”

Meanwhile, research has illustrated that superintendents should consider rolling their greens as opposed to further lowering mowing heights.

“Lower mowing,” Beard said, “results in weakened turfgrass, shallow rooting, more moss and algae problems and the controls that are required for that.”

On the other hand, today’s greens with high-sand root zones don’t compact, so the option of rolling involves minimal negatives. And, Beard said, superintendents can also cut the grass higher and roll it.

He cited ball-roll studies done on putting green of mature creeping bentgrass with normal mat and no thatch, on well-drained greens and high-sand root zones. It was a fast green.

Pre-rolling distance, according to Stimpmeter readings, ranged from 9.3 to 10.7 feet.

The findings included:

- A single rolling in early morning consistently increased the distance 10 percent. Double-rolling raised it 11 percent. Three-roller units raised the distance 17 percent and four rollers increased it 20 percent.
- Speed gained by rolling with a single roller drops 5 percent by mid-afternoon. But it comes back up the second day.
- Generally, turf-rolling benefits lasted two to three days. “So we’re looking at rolling twice or three times per week,” Beard said.
- North Carolina State University rolled seven times a week and found that any rolling beyond three times a week they started to see thinning and loss of turf.
- It’s best to roll immediately after mowing. Rolling beforehand provides very little effect.
- Operating speed of the roller does not influence distance in ball roll.
- Long-term rolling studies at

**Compare the Rest. You’re Looking at the Best.**

Wherever golf is played, Superintendents and golfers alike recognize the quality, pride and craftsmanship that goes into every Par Aide ball washer.

So it’s no surprise that more than a few imitators have come and gone over the years. But, despite all of their “me too” claims, absolutely no one has yet equaled the unique advantages and rugged durability of Par Aide’s cast aluminum original.

It was true in 1955. It’s still true today. When it comes to ball washers, and the name of the company that stands behind them, Par Aide has no peers.

Ask your Dealer today about the best long-term investment value in golf course accessories — ask to see all of Par Aide’s “Classic” ball washers.
ONTREAL — Declaring that a large gap exists between scientific evidence and the perception of danger, Dr. Harry Baikowitz said the media, governments and environmental groups are scaring the public and taking its money to correct "problems" that don't exist.

Speaking at the Canadian International Turfgrass Conference and Show here, Baikowitz addressed the myths and realities of environmental concerns, saying, "Some myths die hard." They die hard, he said, because the media manipulates them and environmentalists perpetuate them.

Listing a barrage of "myths" from the alar scare to the claims that cranberries and cellular phones cause cancer, Baikowitz added, "Blaming ozone depletion and global warming on CFCs and humans is a leap that has no basis in scientific fact."

"There is more truth," he said, "to Woody Allen's statement: 'Help stamp out pollution. Eat a pigeon.'"

Baikowitz, whose doctorate is in chemistry, cited the existence of a "fear coefficient" in which the more common the chemical that is being discussed, the higher the fear.

False claims, he said, are also being made against golf courses. While pesticides are described as "toxic," "dangerous," "groundwater pollutants," Baikowitz said: "We've done a lot of studies on the retention of all forms of pesticides, especially fungicides, in water and soil, and our data certainly does not support that there are any kinds of residuals that would contaminate underground waterways of golf courses."

And these [courses] have been around for at least 40 years."

The government defines "dangerous" as a substance that causes a substantial increase in mortality, he said. "If a pesticide can add one cancer in 1 million people, it is considered a carcinogen. Yet one of three people get cancer in their lifetime."

Turfgrass diseases are treated with fungicides, he said, and they represent 1.6 percent of total pesticide use in North America. They have the lowest toxicity to humans.

"Nature generates toxins that are at least 10,000 times more toxic than any manmade chemical, and we're exposed to them every day," Baikowitz said.

The "real data" that exists, he said, "does not support the hysteria and finger-pointing we're exposed to day by day."

Yet, he added, superintendents must be armed with facts in order to answer concerns or false claims from golfers and others.

---

Science today: Myth & theory vs. fact

Superintendents know the importance of aeration holes, because both the procedure and choice of amendment can be critical to the long-term health and durability of the green. While sand and some manufactured amendments can actually break down over time (adding to compaction problems!), GREENSCHOICE® provides for a permanently amended root zone, unaffected by physical or chemical forces.

GREENSCHOICE® is a chemically inert mineral composition, kiln-fired to provide both high porosity and exceptional hardness. Amending with this advanced product results in a dramatic improvement in water and nutrient retention, reduced compaction and significantly increased percolation.

Proven successful in conditions ranging from compacted soils to droughty sands, only GREENSCHOICE® can provide a full range of benefits to problem greens:

• Fights compaction, providing a naturally aerified root environment where moisture, nutrients and oxygen are readily available to the roots

Superintendents know the importance of aeration holes, because both the procedure and choice of amendment can be critical to the long-term health and durability of the green. While sand and some manufactured amendments can actually break down over time (adding to compaction problems!), GREENSCHOICE® provides for a permanently amended root zone, unaffected by physical or chemical forces.

GREENSCHOICE® is a chemically inert mineral composition, kiln-fired to provide both high porosity and exceptional hardness. Amending with this advanced product results in a dramatic improvement in water and nutrient retention, reduced compaction and significantly increased percolation.

Proven successful in conditions ranging from compacted soils to droughty sands, only GREENSCHOICE® can provide a full range of benefits to problem greens:

• Fights compaction, providing a naturally aerified root environment where moisture, nutrients and oxygen are readily available to the roots

---

GREENSCHOICE®
The First Amendment™

PREMIER ENVIRONMENTAL PRODUCTS • P. O. BOX 218469 • HOUSTON, TX 77218 • 800/829-0215

CIRCLE #149

MAINTENANCE

CANADIAN CONFERENCE

MADE IN AMERICA

Droughty Sands

Compacted Soils

GREENSCHOICE

Moisture & Oxygen

Some Of The Greatest Holes In Golf Are Never Seen

Most golfers don't know they exist, but great aeration holes make great greens!

---

Golf Course News

CIRCLE #149

April 1997 21