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Despite the use of respected spray and fertility programs, as well as what should've been efficient topdressing and cultivation programs, some of the best courses and superintendents suffered turf loss. Industry consultant Michael Vogt crunches the numbers to find out why.

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Retrofitting irrigation nozzles not only saves water, but courses are learning it can have a dramatic impact on reducing water costs, too.

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**CAN ANNUAL BLUEGRASS PUTTING GREENS BE HEALTHY AND FAST?**
Oregon State University research shows that daily rolling, along with higher mowing heights, provides high-quality turf and excellent green speeds.