

### **SportsTurf** 25<sup>th</sup> Conference & Exibition

January 21-25, 2014

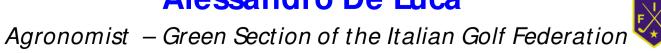
San Antonio (TX)

## Latest Trends in European Turfgrass

THE GOLF DELLA MONTECCHIA EXPERIENCE



### Alessandro De Luca





Golf della Montecchia is located between the city of Padua and the extensive spa area (Abano Terme) and the Parco dei Colli national park.









The golf course was established back in 1988 by a group of local businessmen.

Designed by English architect Tom Macauley, consists of 27 holes comprising the 3,387-yard yellow course, the 3,424-yard red course and the 3,485-yard white course.



## The Club hosted PGA European Tour competitions (Challenge Tour in 2001, 2002, 2013 & Alps Tour in 2010, 2012) and several National Amateur Tournaments.













The original grasses at Golf della Montecchia fairways and tees were cool season infested year by year with annual bluegrass and common Bermuda.

AREAS	GRASS SPECIES
Greens & collars	Agrostis stolonifera (Creeping bentgrass) cv. Penncross (holes 1-18) Agrostis stolonifera (Creeping bentgrass) cv. Pennlinks (holes 19-27)
Tees	Agrostis stolonifera (Creeping bentgrass) cv. Penncross, L. perenne (Perennial rye), F. rubra (Red fescue) and P. pratensis (Kentucky bluegrass)
Fairways	L. perenne (Perennial rye), F. rubra (Red fescue) and P. pratensis (Kentucky bluegrass)
Surrounds, semi rough and rough	L. perenne (Perennial rye), F. rubra (Red fescue), P. pratensis (Kentucky bluegrass) and F. arundinacea (Tall fescue)





The drainage system is very efficient and this represents a strength in wintertime but a weakness in the summer months when the temperature often rises to 35 degrees C and there are regular periods of drought.

For that reason the Club had to use a considerable quantity of water and a large amount of pesticides in order to protect and repair stressed turf.



The maintenance program required every year autumn overseeding and the maintenance cost was unsustainable.



In 2003 a very long period of drought caused loss of turf both in Montecchia and in most of the Italian golf courses.





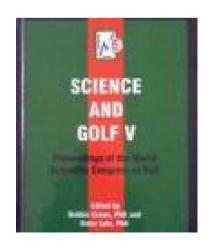








The results of the trial were presented at the 5<sup>th</sup> World Scientific Congress of Golf at Phoenix, Arizona in March 2008 and at the 1<sup>st</sup> European Turfgrass Society Conference in Pisa, Italy a couple of months later.





### On 2007 Bermudagrass Tifway 419 was sodded on the driving range teeing ground.





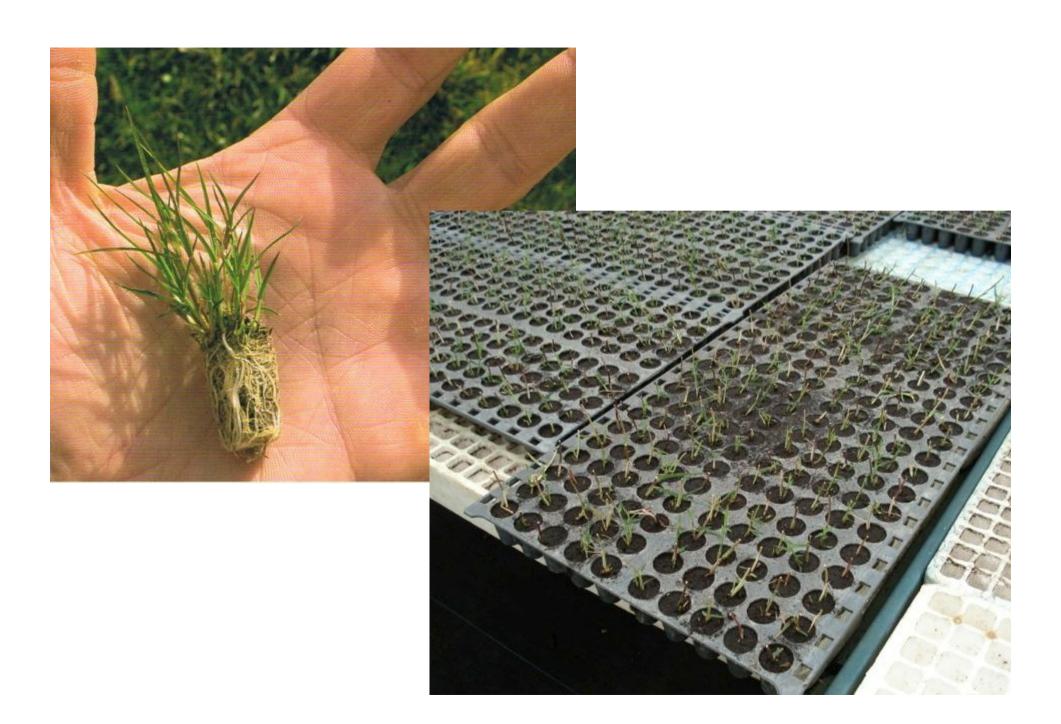
To limit disruption for the members, the work was scheduled over three years (2010 White course, 2011 Red course and 2012 Yellow course)



# An innovative technique (small plants instead of stolons) was used to re-open the course in six weeks.

























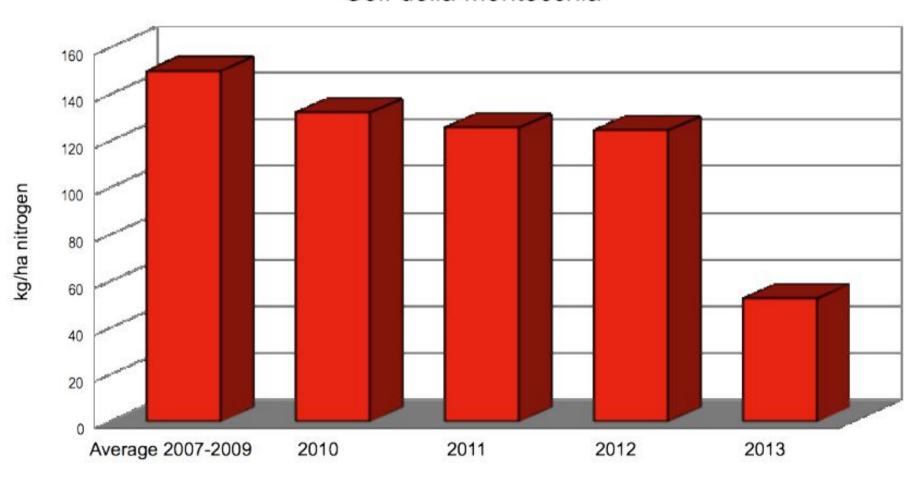
Actual maintenance data shows significant differences when compared to that from previous years: dramatic reductions in terms of water consumption (70% less) and fertiliser inputs (80% less).

No pesticides used in 2013.



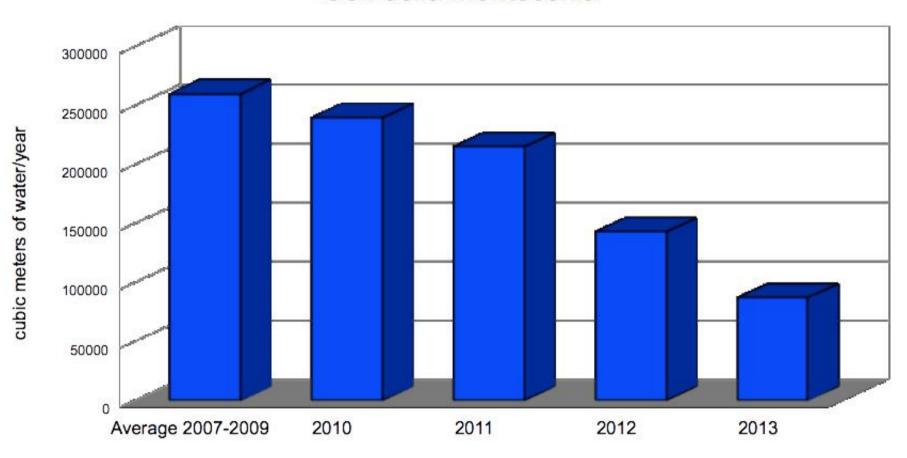
### Total nitrogen applied on tees and fairways

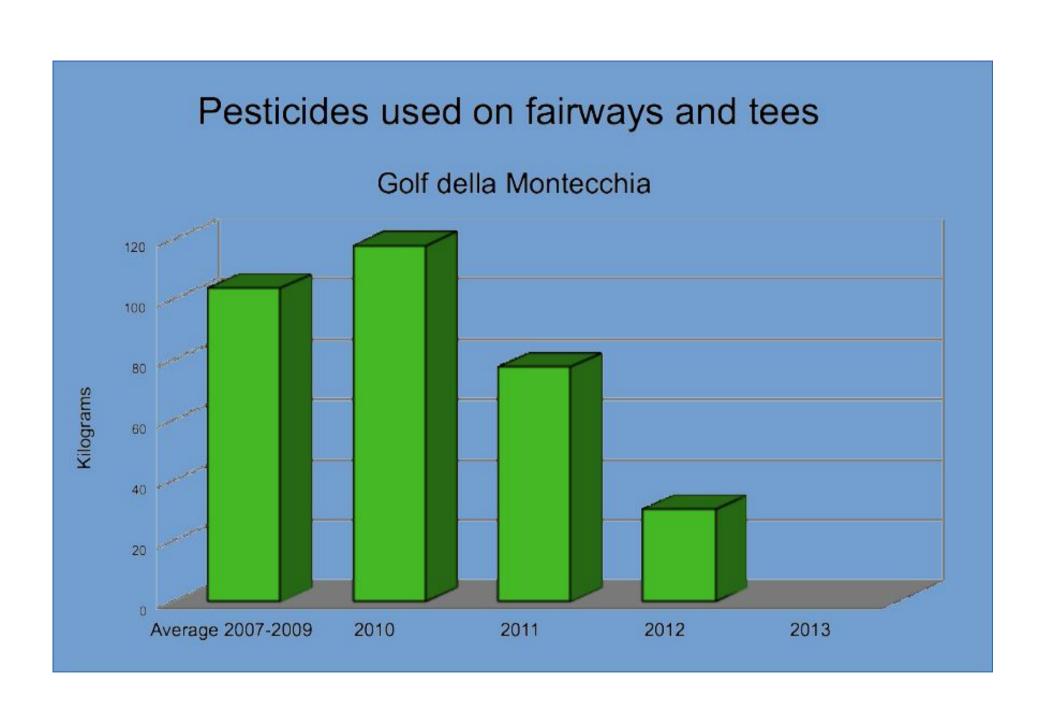
#### Golf della Montecchia



### Total water consumption

### Golf della Montecchia





Thanks to our conversion to Bermudagrass plus a number of additional measures aimed at enhancing its sustainable performance, Golf della Montecchia was awarded the G.E.O. Environmental Certification in May 2013 (Golf Environment Organisation)



