

# Zoysiagrass

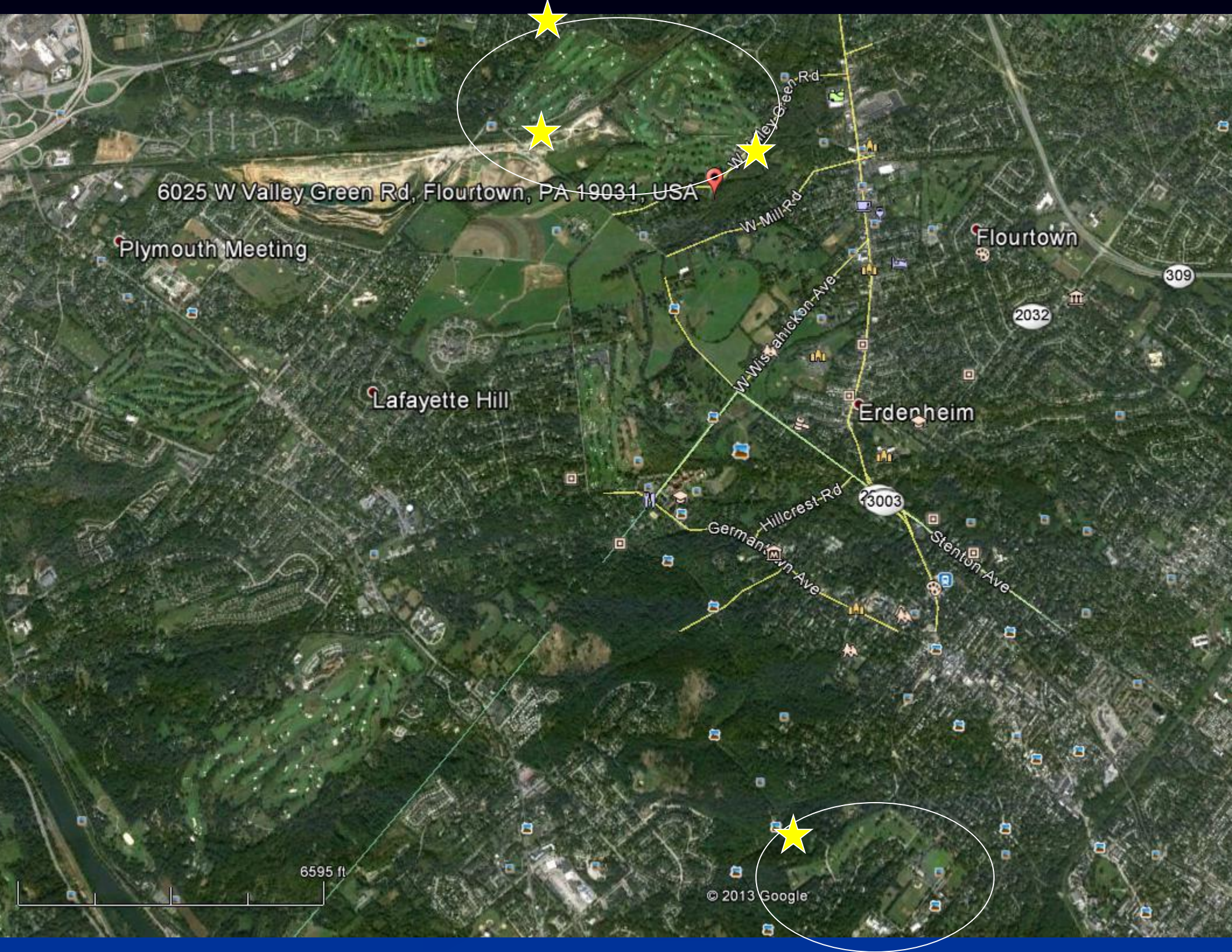
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**St. Martins**  
**1800's - City of Philadelphia**



6025 W Valley Green Rd, Flourtown, PA 19031, USA

Plymouth Meeting

Lafayette Hill

Flourtown

Erdenheim

3003

309

2032

6595 ft

© 2013 Google













1,500 Rounds Per Year



.4  
Mile

Walk At Your Own Risk

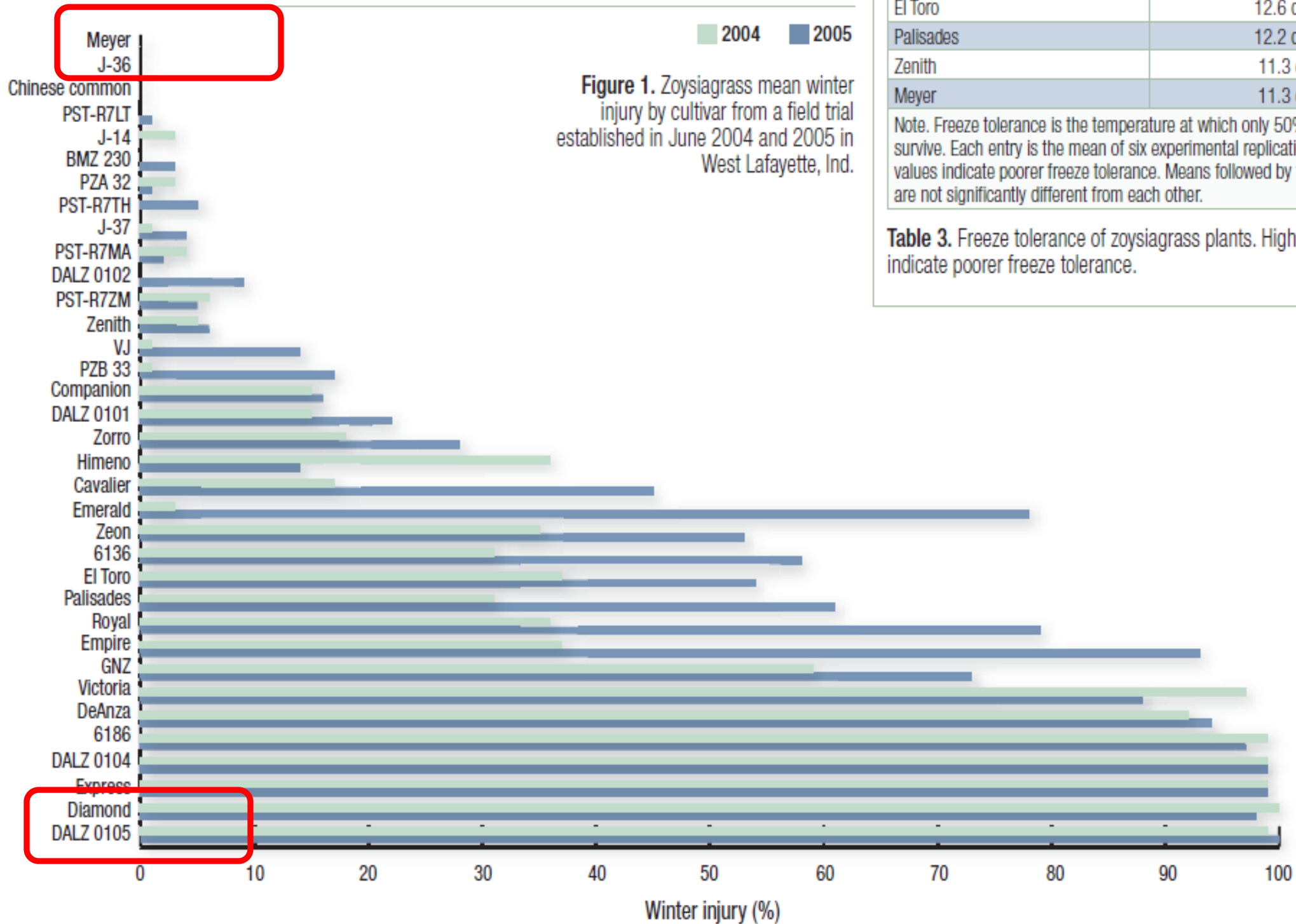
# Zoysiagrass Selection



Zoysiagrass

Bermudagrass

# Winter injury



J-36	12.6 de
El Toro	12.6 de
Palisades	12.2 de
Zenith	11.3 e
Meyer	11.3 e

Note. Freeze tolerance is the temperature at which only 50% survive. Each entry is the mean of six experimental replication values indicate poorer freeze tolerance. Means followed by the same letter are not significantly different from each other.

**Table 3.** Freeze tolerance of zoysiagrass plants. Higher values indicate poorer freeze tolerance.

# Meyer Zoysia

Meyer zoysia is an improved strain of zoysia japonica, grown from seed by the United States Department of Agriculture in 1940.

Meyer zoysia was developed and released cooperatively by the Crops Research Division, Agriculture Research Service, and the U.S. Golf Association Green Section in 1951.





# East Lake / Tour Championship









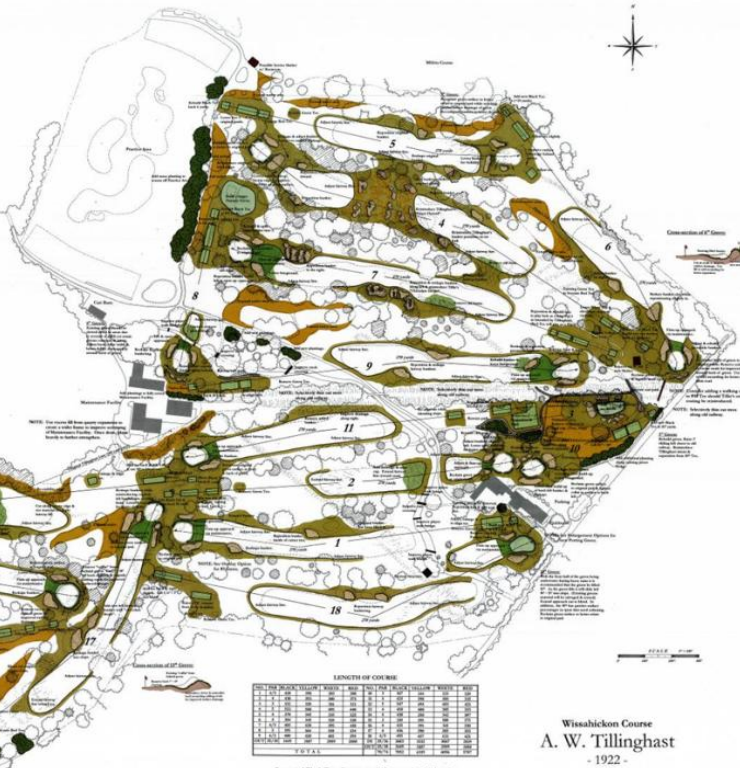


The Philadelphia Cricket Club has a pedigree which few clubs in the country can match.

In 1925, A. W. Tillinghast developed a 36 hole plan for the Club's newly acquired Flourtown property. In 1922, 29 holes were introduced by golf for the first time.

**Components of the Program consider:**

- Site Plan:** Review, redesign & construct green surface in its original position which will include other & adjacent work. The entire site will be regraded to a uniform grade. This is of extreme importance to the overall design.
- Green Design:** A program to construct the 36 original greens & additional holes in accordance with the program.
- Reconstruction:** All should be redesign, rebuild and re-grade.
- Approaches:** Plan up & adjust approaches around to greens.
- Water:** Review and redesign original Tillinghast water table, design a new & all water bodies to be redesigned to meet the original intent & will contain proper waterfalls & ponds for aesthetic & recreational purposes.
- Accessibility:**
  - 1. ADA Compliance: All buildings, paths & areas.
  - 2. ADA Compliance: All buildings, paths & areas.
  - 3. ADA Compliance: All buildings, paths & areas.
- Construction:**
  - 1. Excavate & install retaining walls through the golf course.
  - 2. Excavate & install retaining walls through the golf course.
  - 3. Excavate & install retaining walls through the golf course.
- Drainage:** A. Review & redesign original drainage system. B. Review & redesign original drainage system. C. Review & redesign original drainage system.
- Other Site Adjustments:** Review & redesign.



HOLE	TYPE	LENGTH	PAR
1	Par 3	187	3
2	Par 4	215	4
3	Par 5	250	5
4	Par 4	200	4
5	Par 3	175	3
6	Par 4	210	4
7	Par 5	245	5
8	Par 4	205	4
9	Par 3	180	3
10	Par 4	215	4
11	Par 5	255	5
12	Par 4	200	4
13	Par 3	175	3
14	Par 4	210	4
15	Par 5	245	5
16	Par 4	205	4
17	Par 3	180	3
18	Par 4	215	4

Wisahickon Course  
A. W. Tillinghast  
- 1922 -

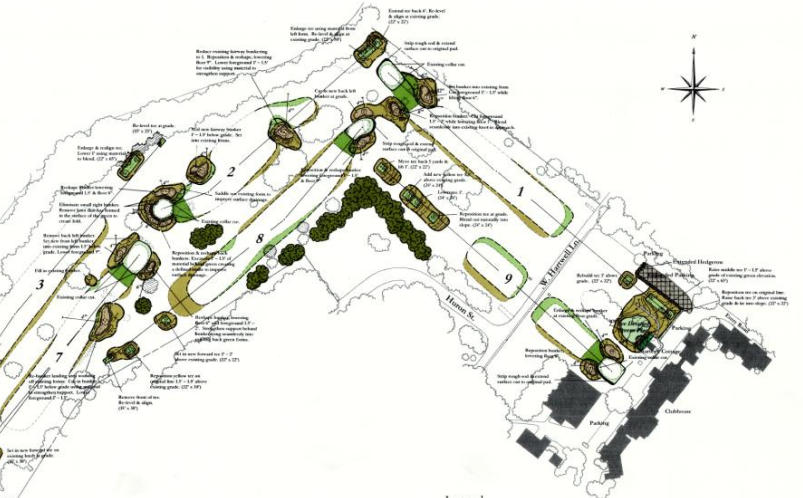
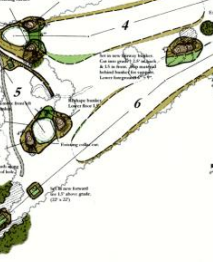
Master Plan  
November 17, 2009

Suggested Black Tees adjustments yield a net gain of 100 yards. With #7 becoming a Par 4 as originally intended, Golf remains a Par 3 for the Blue Tees a decrease of 10 yards occurs. Black Tees for the golf course will play at 3,602 yards with the Yellow Tees playing at a length of 3,395 yards. It is suggested that a new tee position equating 3,500 yards be created. Yellow & White Tees playages will remain close to existing lengths with Blue Tee grounds being improved.



1854

Philadelphia, Pennsylvania  
- St. Martins Course -



**Legend**

- Limits of Disturbance** - Shaded area
- Sidewalk (2" x 8")** - Dashed line
- Inter (8" x 12")** - Dashed line
- Cart Path Removal** - Dashed line
- New 9" Wide Asphalt Path** (CONTRACTOR will be responsible for the removal of old paths, existing on one end & tying in of edges. The CLUB will be responsible for the purchase & installation of base & asphalt)
- Tree Removal** - Solid black circle
- New Tree Planting** - Circle with cross
- Tee & Bunker Elevations** (Elevated elevations are set as they relate to existing grades. The elevation value is the proposed finish grade of each hole with the larger one having a black circle elevation as well. Bunker elevations depicts the proposed finish after the addition of sand)
- Roughs** - Tall Grass, Band Soil (Purchased by the CLUB - CONTRACTOR to lay)
- Brush** - Tall Grass, Band Soil (Purchased by the CLUB - CONTRACTOR to lay)
- Waterways** - Blue line (The CLUB is currently recommending the driveway to Bay & will be covering them in a better finish of Riprap over time. Any disturbed driveway areas will be reseeded by the CLUB)
- New Putting Green** - Strip & replace and from existing Terms Course. (The CLUB will strip the soil with the CONTRACTOR being responsible for the laying)
- Green Expansion Areas** where the original paths are currently Rough Cut - Strip & replace and from the existing Terms Course. (The CLUB will strip the soil with the CONTRACTOR being responsible for the laying)
- Green Expansion Areas** where the original paths are currently Colter Cut - Strip & replace and from the existing Terms Course. (The CLUB will strip the soil with the CONTRACTOR being responsible for the laying)
- Adjusted Approaches** - Strip & replace and from existing rough as an old putting Green. Additional soil will come from Terms Course. (The CLUB will strip the soil with the CONTRACTOR being responsible for the laying)
- Tree Types** - Non 10% height (Purchased by the CLUB - CONTRACTOR to lay)

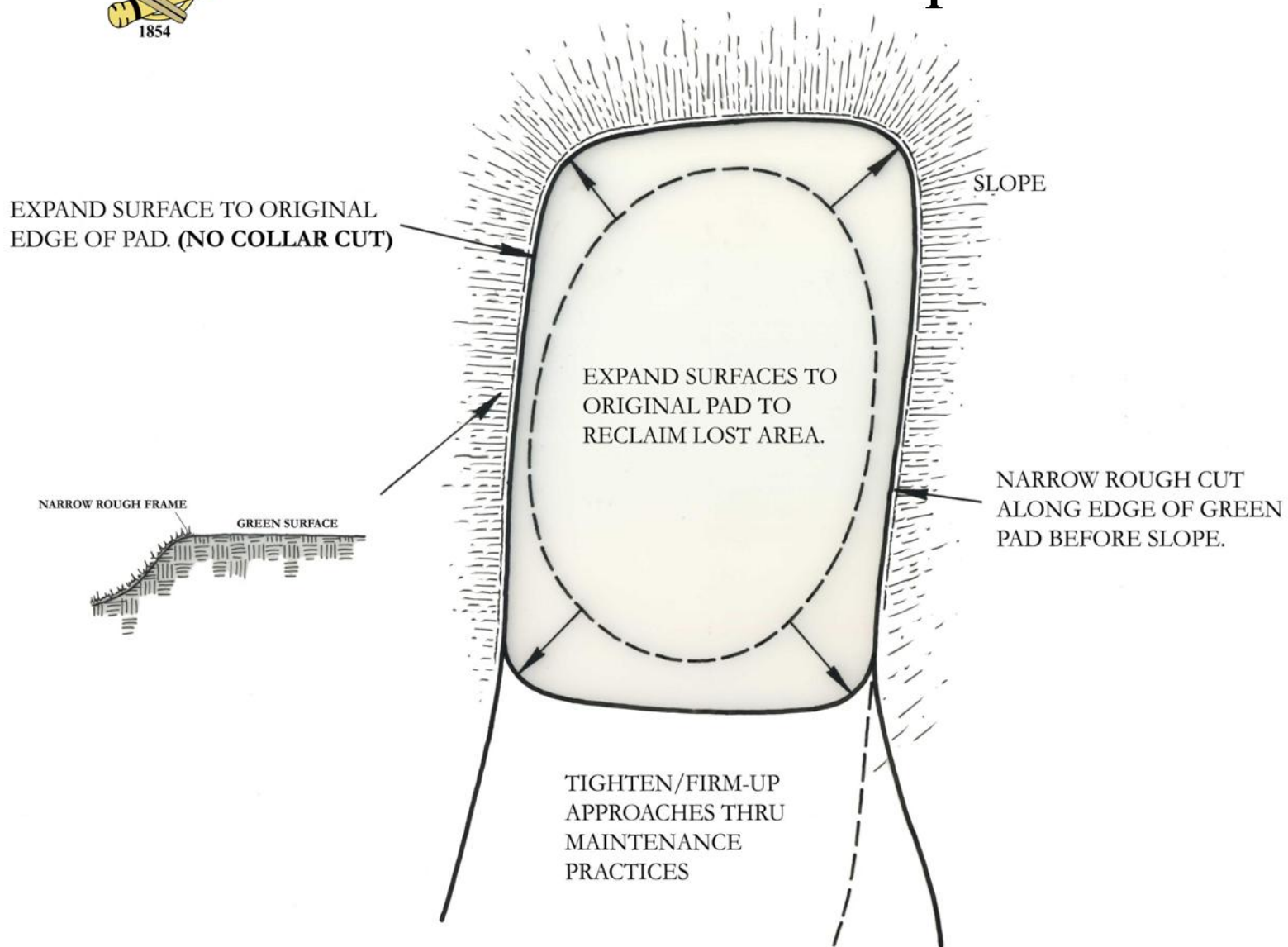
Host Site of the 1907 & 1910 U. S. Open Championships

North Foster GOLF ARCHITECT  
Member of the American Society of Golf Course Architects.

Restoration Plan



# St. Martins Green Expansions



## Green Detail (#1 Green)

NTS

PLAN













Spring 2012







# Divots







# 2013 Synergies







# 2013 US Open



# Original US Open Course





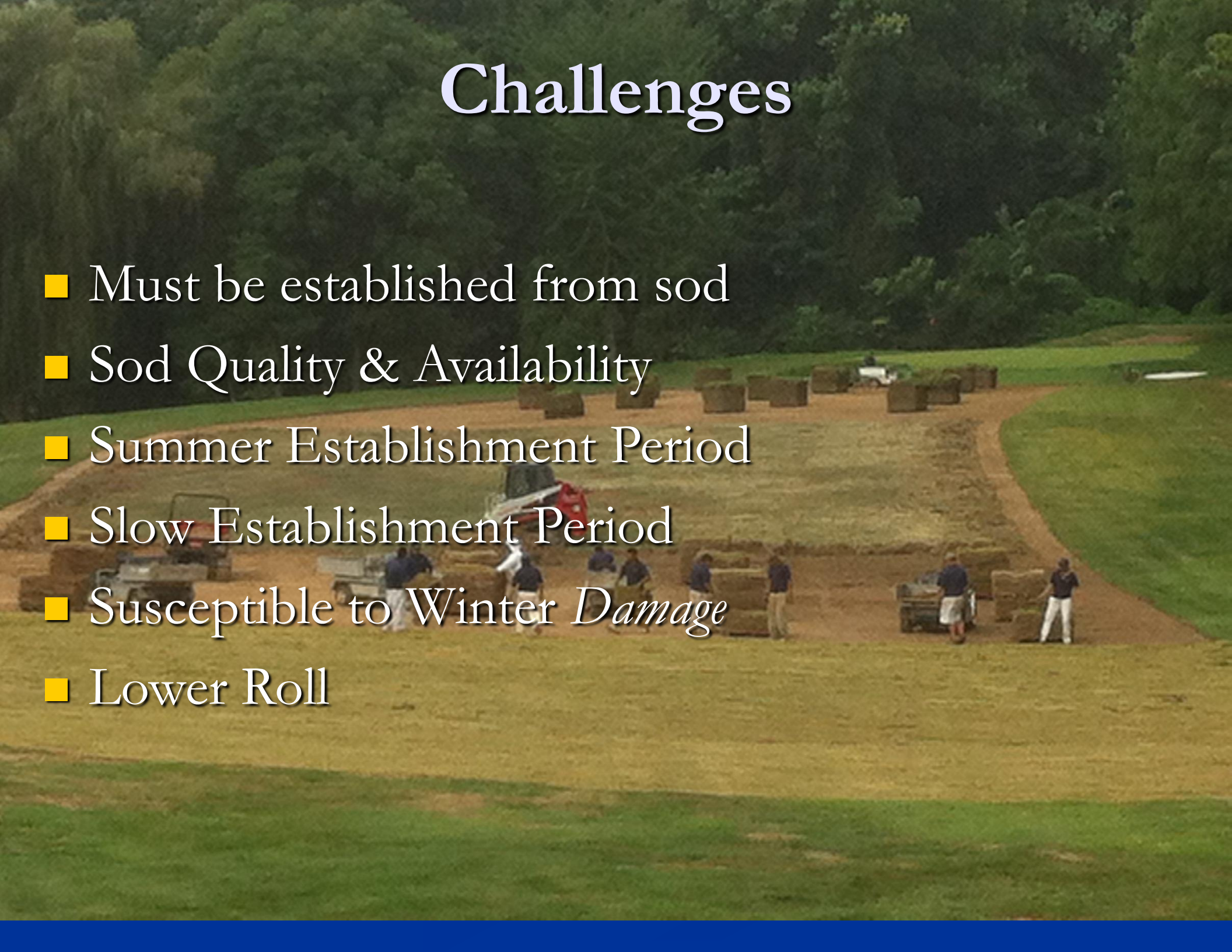
# Creative Bidding



August 2012

# Challenges

- Must be established from sod
- Sod Quality & Availability
- Summer Establishment Period
- Slow Establishment Period
- Susceptible to *Winter Damage*
- Lower Roll















# Zoysia Benefits



# Zoysia Benefits

- Superior Ball Lie
- Attractive Aesthetics
- Significantly Lower Operating Costs
- Better Wear Tolerance
- Slow Growth Means Less Mowing
- Less Susceptible to *Winter Kill*



Less Water



Less Mowing











**Members Enjoy Dormant Lie**



# Weed Control

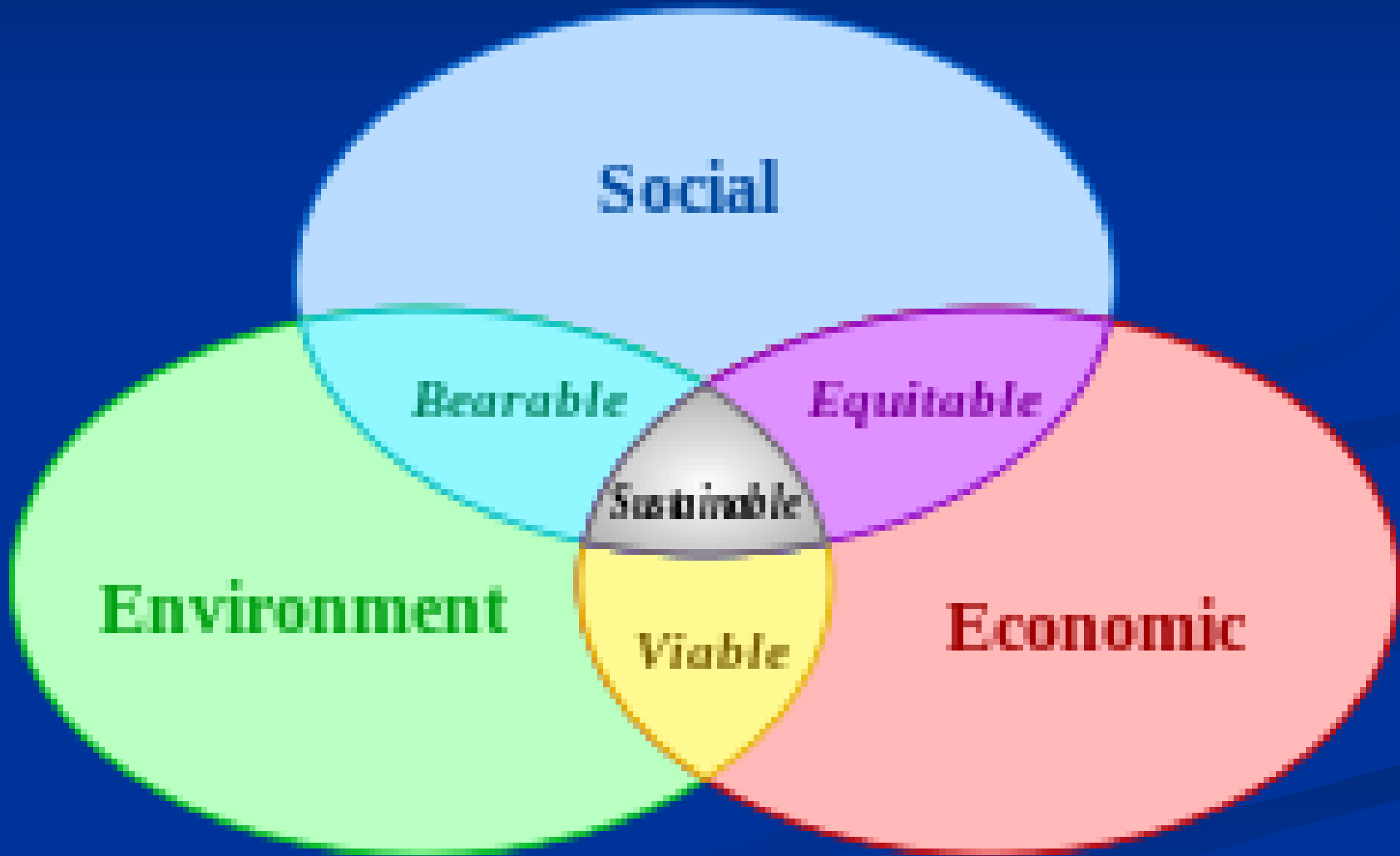








# Zoysia's Impact on Sustainability?





# Failed golf course marketed for housing development



The Braeside Golf Club is on the market for \$965,000 after it went into receivership this spring. (Photo courtesy of Amicus Management)



By [Jim Harger | jharger@mive.com](#)

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on May 01, 2015 at 5:59 PM, updated May 01, 2015 at 6:24 PM

[Print](#)

[Email](#)

ROCKFORD, MI – Braeside Golf Course is joining the ranks of West Michigan golf courses whose owners have pulled up their flags and parked their golf carts.

The 116-acre parcel at 5460 11 Mile Road NE **has been put on the market for**

## Find Loc

[Homes for Sa](#)

[Used Cars | J](#)

## Real Est

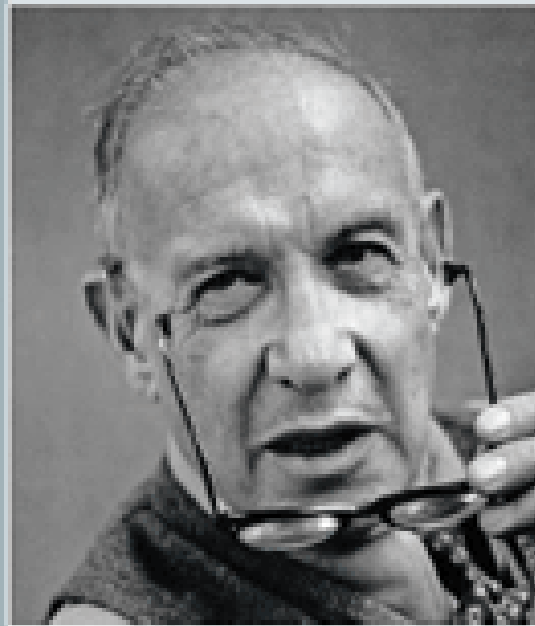


The McGraw-Hill Companies

# BusinessWeek

NOVEMBER 24, 2003

www.businessweek.com



## THE MAN WHO INVENTED MANAGEMENT

Why **Peter Drucker's**  
ideas still matter

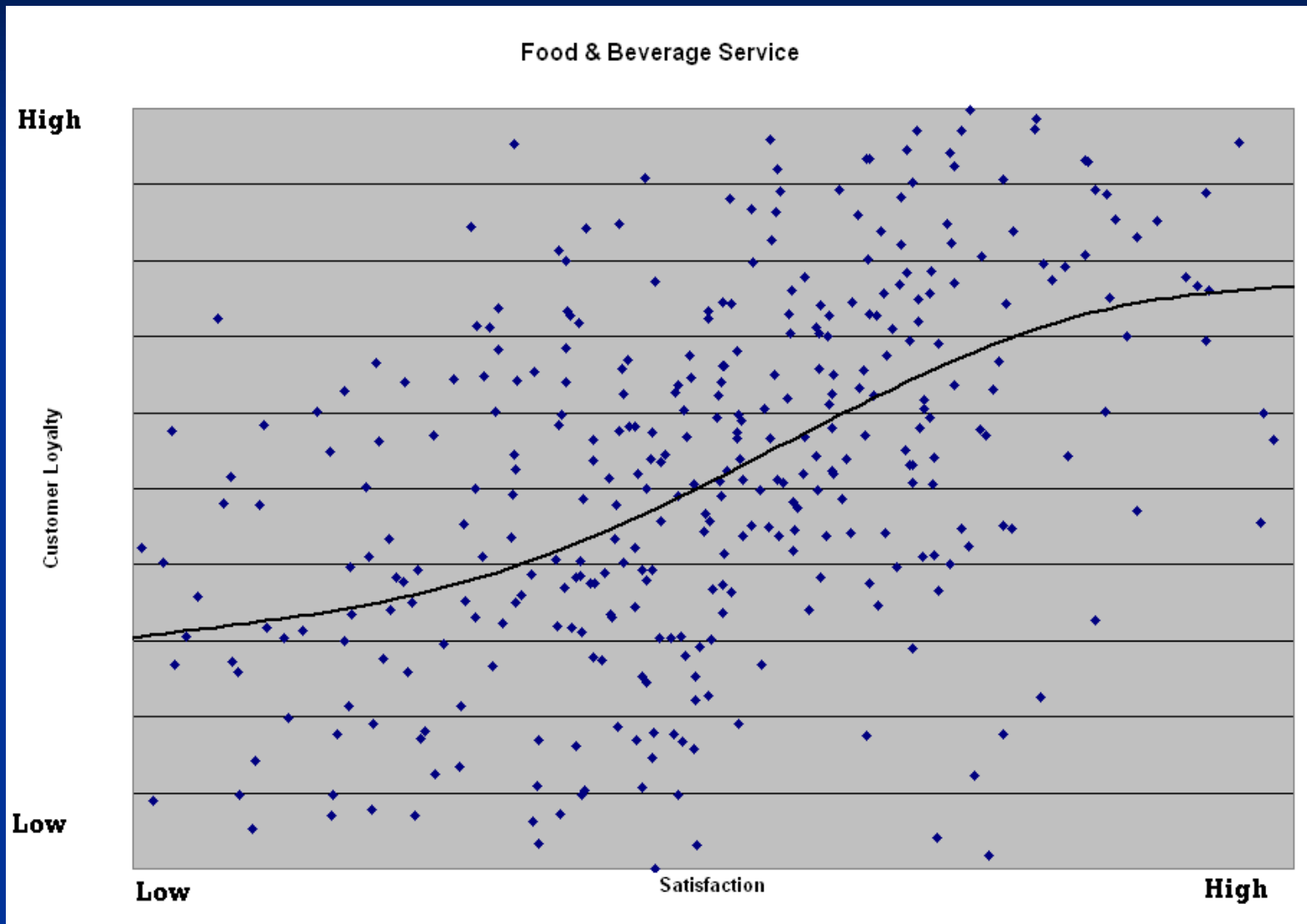
BY JOHN A. BYRNE (P. 96)

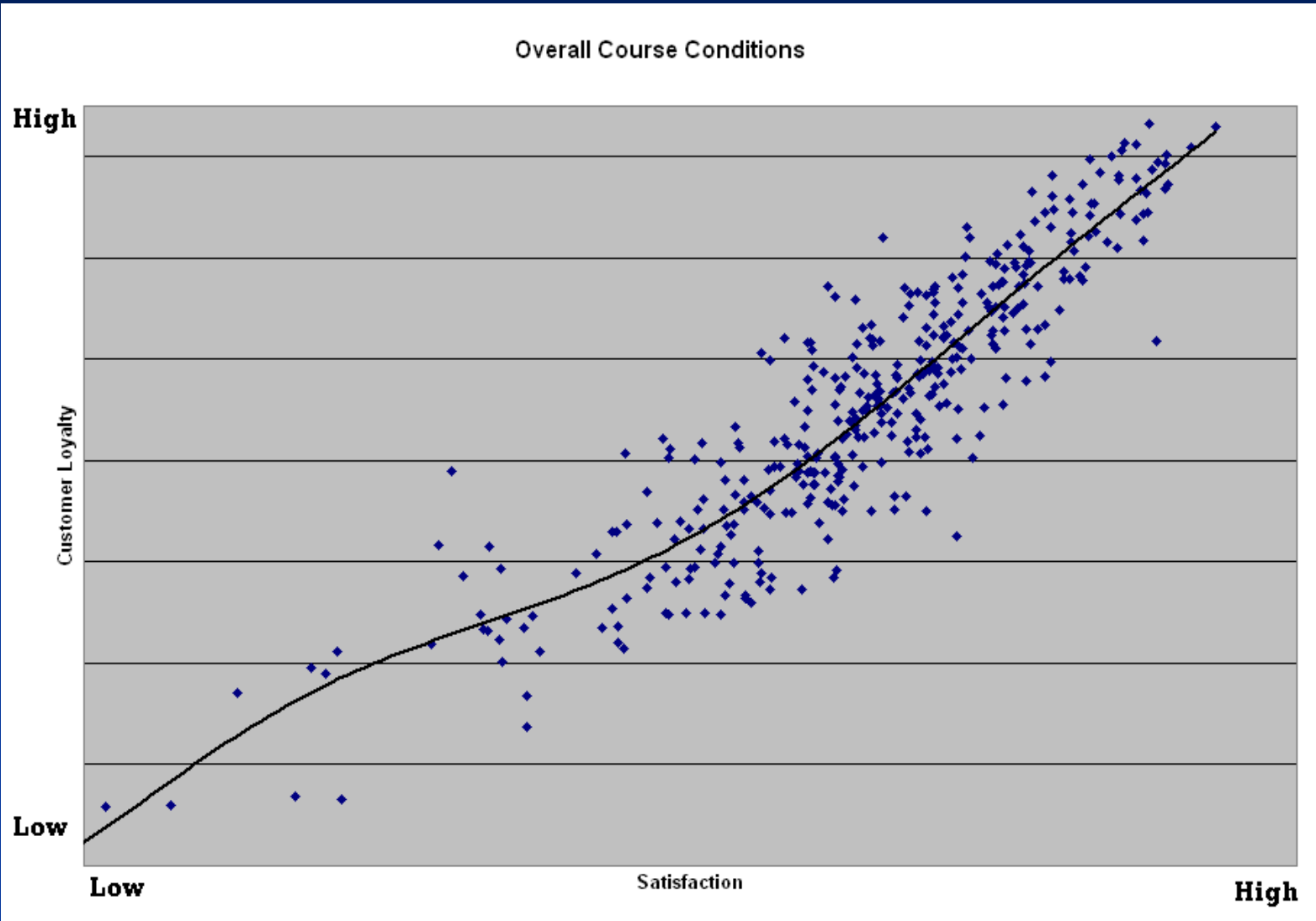
*The Practice of Management,*

Peter Drucker “There is only one purpose of a business; to create a customer”



<u>Factor</u>	<u>Importance Ranking</u>	<u>Loyalty Driver Ranking</u>
Overall Course Conditions	<u>1st</u>	<u>1st</u>
Condition of Greens	<u>2nd</u>	<u>5th</u>
Affordability	<u>3rd</u>	<u>20th</u>
Pace of Play	<u>4th</u>	<u>13th</u>
Overall Value of Course	<u>5th</u>	<u>2nd</u>
Tee Time Availability	<u>6th</u>	<u>19th</u>
Friendliness / Service of Staff	<u>7th</u>	<u>8th</u>
Scenery and Aesthetics of Course	<u>8th</u>	<u>6th</u>
Condition of Fairways	<u>9th</u>	<u>3rd</u>
Golf Course Design	<u>10th</u>	<u>4th</u>
Food & Beverage Service	<u>11th</u>	<u>18th</u>
Condition of Tees	<u>12th</u>	<u>7th</u>
Overall Quality of Practice Facility	<u>13th</u>	<u>11th</u>
On-course Services (restrooms, drinking water)	<u>14th</u>	<u>17th</u>
Amenities (clubhouse, pro shop, locker room)	<u>15th</u>	<u>15th</u>
Condition of Bunkers	<u>16th</u>	<u>9th</u>
Condition of Golf Cars	<u>17th</u>	<u>14th</u>
Overall Quality of Golf Shop	<u>18th</u>	<u>10th</u>





# Member Surveys



## SECTION IV. GOLF

*Approximate number of respondents to questions in this section: 700*

**Question 17. Please indicate your satisfaction regarding these aspects of the Wissahickon and Militia Hill golf courses: (5=Very Satisfied, 1=Very Dissatisfied)**

Golf Course Aspects	Wissahickon Course			Militia Hill Course		
	Mean Rating	% Satisfied	% Dissatisfied	Mean Rating	% Satisfied	% Dissatisfied
Overall course condition	4.8	98%	0%	4.7	97%	1%

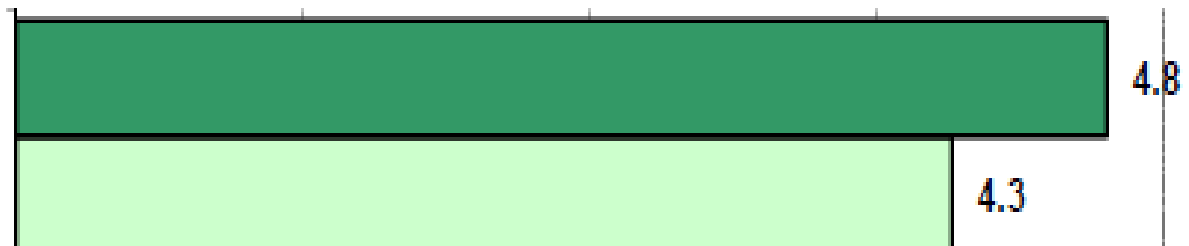




## Golf Course Satisfaction Wissahickon Course

### Golf Course Aspect

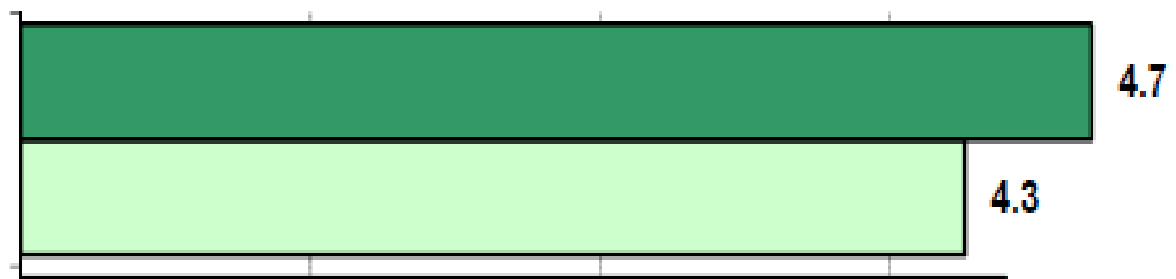
Overall Course Condition



## Golf Course Satisfaction Militia Hill Course

### Golf Course Aspect

Overall Course Condition



# St. Martins Zoysia?



# Winter 2015





May 12, 2015



May 26, 2015



July 2015

**Question 18. Please indicate your satisfaction with the St. Martins golf course: (5=Very Satisfied, 1=Very Dissatisfied)**

<b>St. Martins Golf Course</b>	<b>%</b>
Very Satisfied	40%
Satisfied	47%
Neutral	11%
Dissatisfied	1%
Very Dissatisfied	1%
Mean Rating	4.3

Eighty-seven percent (87%) of respondents are satisfied with the St. Martins Course and only 2% are dissatisfied.



“I do not feel this is due to any significant dissatisfaction with the St. Martins course (only 2% are dissatisfied). Rather, the lower rating of 4.3 is more a factor of the St. Martins course being less important to members than the other two courses. The somewhat lower rating of 4.3 was due primarily to the 11% of respondents who provided neutral ratings. These are people who most likely rarely or even never play the St. Martins course, and rather than either skipping the question or marking “No Opinion” (as they should have), they marked “Neutral”, which had the impact of lowering the overall rating.”

-Tom Strutz, Senior VP, McMahon Group



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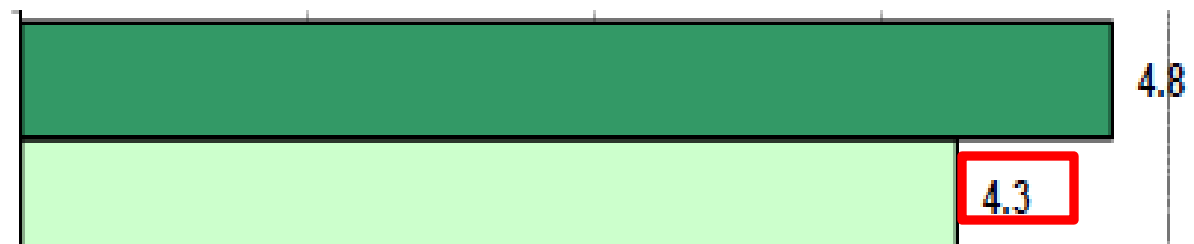
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Golf Course Aspect

Overall Course Condition



*The Practice of Management,*

Peter Drucker “There is only one purpose of a business; to create a customer”



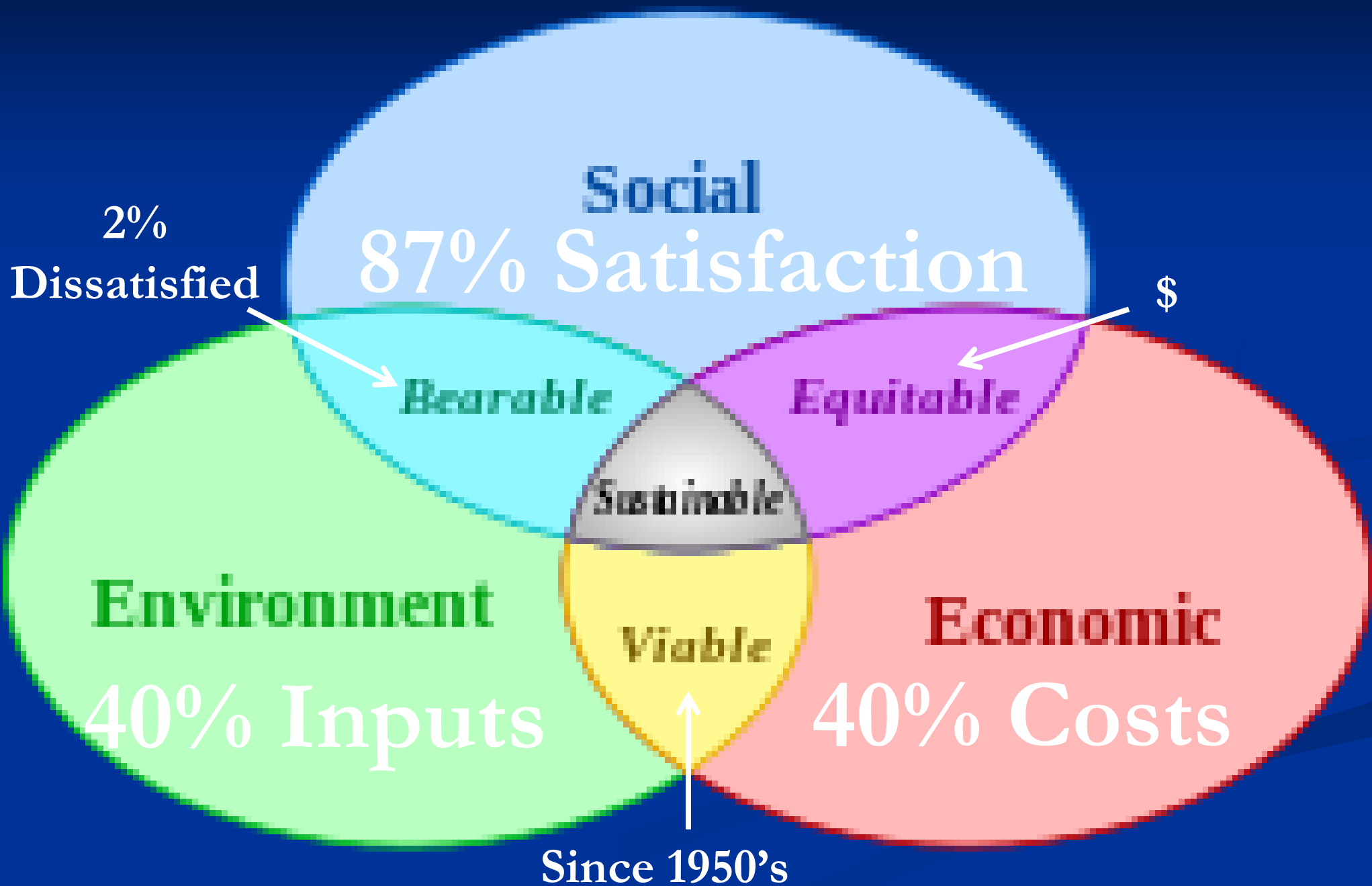
1,500 Rounds in 2012



**7,500 Rounds in 2015**



# Sustainability?



# Why Don't We See More Zoysia?

- Up Front Cost
- Sod Quality
- Summer Timing Inconvenient
- Poor Growing Environments
- Lack of Familiarity
- Industry Influences
- Fear





Other Uses





100 YD MAX TO LOWER TEE

200 YD MAX TO LOWER TEE













Thanks





# Thanks

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Schiller