

PERFORMANCE QUALITY STANDARDS (COMPLETE PQS)

Why Performance Quality Standards are important:

Maintaining your Athletic Fields to a Performance Quality Standard is essential to providing consistently safe and playable surfaces for your athletes. By meeting these standards you are providing a sustainable asset to your community.

A Complete PQS expands upon a Core PQS to provide a more in-depth understanding of all aspects of your Athletic Field. It provides a comprehensive report of your field's current conditions and assesses all the performance characteristics that help it meet the established standards. This data can be used to improve your current field conditions, justify maintenance decisions, and allocate budget resources.

How Tom Irwin Advisors will help:

Our team will use specialized scientific instruments to perform a set of tests on your Athletic Field. This process will yield up to 412 data points that will help you understand your field's **playability**, **presentation**, and **structure**.

These test results will identify opportunities for you to improve your field and meet Performance Quality Standards.

We offer Complete PQS assessments on athletic surfaces used for Football, Soccer, Baseball, Softball, Lacrosse, Field Hockey, Rugby, Track and Field, and Tennis.

What we do for you during a Complete PQS Assessment:

We perform up to 42 sport-specific tests including:

- All Core PQS tests

Plus:

- Height and Quality of Cut
- Soil Compaction
- Percentage Desirable Grass Cover
- Infield Turf & Clay Performance
- Backstop, Boundary Fence, and Field Line Marking Requirements
- Overall Appearance
- Visual & Color Index
- Field Gradients
- Percentage Bare Area
- Percentage Poa Annua, Clover, Plantain, Crabgrass, Goosegrass, and Knotweed
- Percentage Pest & Disease Damage
- Soil pH
- Percentage Rootzone Silt and Clay Content

Upon completion of testing, the following personalized reports are provided:

Digital Report Card – Details our findings and test results, which accurately identify your field's strengths and weaknesses.

Result Tracking – Tracks the progress of your maintenance program over time and provides a definitive record of your field's state of play.

Summary Report – Summarizes our findings and suggests the next steps necessary to provide outstanding playing conditions.

TOM IRWIN ADVISORS



SPECIFICATIONS:

Playability – How your Athletic Field performs

- **Height and Quality of Cut** – The current mowing heights and cut quality which affect plant health and playability.
- **Planarity** – The evenness of the field over a representative area to promote field safety and reduce water collection points. (Core)
- **Rotational Traction** – Tertiary strength illustrates root strength, durability, and the ability to withstand play. (Core)
- **Compaction** – The density of the topsoil material which impacts drainage and root penetration.
- **Surface Hardness** – The ability of the field to absorb impact (G-Max) and mitigate injury/concussion. (Core)
- **Soil Moisture** – The field's Volumetric Water Content which illustrates moisture distribution and uniformity. (Core)
- **% Vegetative Cover** – The amount of total vegetative ground cover as opposed to bare areas. (Core)
- **% Desirable Grass Species** – The current presence of desired grass species for your Athletic Field.
- **% Poa Annuua** – The extent of Poa Annuua contamination which affects playability and presentation.
- **Infield Clay Tests** – The traction, hardness, compaction, infiltration rate, moisture content and overall appearance of the infield surface.
- **Infield Turf Tests** – The color index, infiltration rate, and overall appearance of the infield turf.
- **Backstop and Boundary Fence Requirements** – The condition and location of the backstop and/or fencing.

Presentation – The visual impact of your Athletic Field

- **Field Line Markings** – The visibility of the field marking verified against official requirements.
- **Turf Visual Index** – A measurement of the Dark Green Color Index.
- **Turf Color Index** – A measurement of plant health based on chlorophyll content.
- **Surface Debris** – The presence of detrimental debris which impacts safety and aesthetics. (Core)
- **% Weed Cover** – The presence of weed pressure which can decrease field durability and traction. (Core)
- **Overall Appearance** – A comprehensive determination of the Athletic Field presentation.

Structure – The physical properties of your Athletic Field

- **Gradients** – The elevation or slope of any Athletic Field which influences surface flow of water across the length and width of the field. For diamonds we take readings throughout the infield. Mound height is also verified.
- **Infiltration** – The rate at which water penetrates the surface of the Athletic Field at key locations. (Core)
- **% Bare Area** – The percentage of the field that has lost its vegetative cover, which impacts athlete safety.
- **% Clover, Plantain, Crabgrass, Goosegrass, Knotweed** – The percentage of common problem weeds, quantified to assist with management decisions.
- **% Pests** – The percentage of pest related damage to the Athletic Field.
- **% Disease** – The percentage of disease related damage to the Athletic Field.
- **Root Depth** – The extent of root development which impacts plant health and turf stability. (Core)
- **Thatch Depth** – The organic matter layer that influences playing conditions. (Core)
- **Rootzone Medium Depth** – The depth and consistency of the topsoil which impacts water holding capacity and root mass development. (Core)
- **pH** – The level of acidity or alkalinity in the rootzone affecting nutrient availability and absorption.
- **Silt : Clay Ratio** – The ratio of the topsoil's smallest particles which impact drainage, compaction, and hardness.

To assess the current performance of your field and set a course for improvement, contact Ian Lacy at **781-999-4320** or ianlacy@tomirwinadvisors.com