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Currently we have 243 new & renewed members. In November 2006, SFMANJ mailed invoices for 2007 membership dues to all current members. If you did not receive an invoice, please contact us at 908-730-7770 or download the 2007 membership form available at www.sfmanj.org. Remember to mail your renewal/payment direct to SFMANJ, PO Box 370, Annandale, NJ 08801.

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(continued on page 6)

### SFMANJ Annual Membership Registration Form \* receive update information by email

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#### **MISSION STATEMENT:**

Committed to enhancing the professionalism of athletic field managers by improving the safety, playability and appearance of athletic fields at all levels through seminars, field days, publications and networking with those in the sports turf industry.

#### Contact us at:

PO Box 370 • Annandale, NJ 08801 Web site: www.sfmanj.org Email: hq@sfmanj.org Ph/fax: 908-730-7770

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### Inside This Issue

Welcome New & Renewed Members
Membership Form
SFMANJ Board of Directors
Setting Your Lines Right With The Emphasis on Stenciling4
Infield Soils and Topdressing - Part 1
Spring Field Day 2007 Agenda10
Rutgers Corner12
Calendar of Events14
SFMANJ Field of the Year Contest 2007
2007 Proud Sponsor Directory

This newsletter is the official bi-monthly publication of the Sports Field Managers Association of New Jersey.

For information regarding this newsletter, contact: SFMANJ at (908) 730-7770 or Brad Park at (732) 932-9711, x127

Editor: Brad Park, Rutgers University Email: park@aesop.rutgers.edu

SFMANJ does not necessarily support the opinions of those reflected in the following articles.

## -SETTING YOUR LINES RIGHT WITH THE EMPHASIS ON STENCILING-

Don Savard, CSFM, CGM



Don Savard, CSFM, CGM describes using turfgrass paints and stenciling techniques at a past Field Day.

Whether it is for function or decoration, lines and logos personalize your fields and give your team the home field advantage. Almost all sports and games played on turf or packed clay require some form of lines or markings to help define boundaries, and assist the officials in making correct calls. Lines help the participants perform best by bringing order and strategy to the game. These markings are usually painted or marked with a non-caustic pulverized limestone. Here are some things that I have learned from other sports field managers that help me set lines.

**Measurements:** Sports require accurate measurements. Tape measures are more precise than measuring wheels. Surveying instruments are the most exact and may be required at the higher levels of the sport. "Square" or 90°corners can be

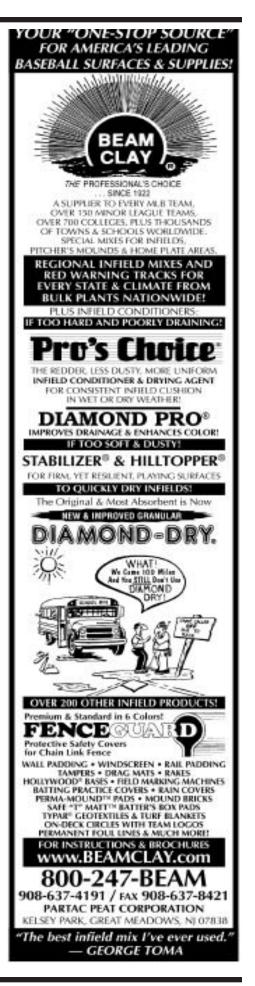
made without surveying instruments by using the 3-4-5 method. Where you want to make a corner, make one line perpendicular to another. On one line, measure out from the corner 30 feet. On the adjacent line, starting from the same point, measure out 40 feet. Draw a line from your 30 foot mark to the 40 foot mark. The result should be 50 feet. If not, adjust either line so that there is a 50 foot measurement from the 30 and 40 foot marks.

**Dry Line Marking:** For human safety, always use a non burning, non caustic marking material such as pulverized limestone. Avoid marking turfgrass with a dry marking material as it might injure turf, modify the soil or over time, create a ridge on the playing surface that could become hazardous to players. Dry marking materials work best on bare soil or "infield dirt". Dry line markers are similar to a drop fertilizer spreader. The marking apparatus features a narrow opening that is the width of the line and can be operated by one person. Other types of markers include a trough type that can be several feet long for marking base paths or shorter for marking batters boxes. These are usually used in the higher levels of baseball or softball and can require 2 people to handle.

**Field Marking Paint:** Paints consist of liquid (or solvent), color (or pigment), sticker (or binder) and other additives such as a fast drying agent. Sports field marking paints are usually water based latex acrylics. Petroleum distillate based paints or volatile organic compounds (VOC paints) can be injurious to plant tissues. Field marking paint is available the forms of aerosol spray paint in inverted cans and bulk paint in 1-5 gallon pail containers. Bulk paint may be premixed ready to use or it may need to be diluted with water in some ratio.

**Painting Equipment:** The most basic field paint equipment is the paint brush and roller, simple and effective but time consuming. Many sports field managers with only a few sports fields use the inverted aerosol spray paint can holder machine. This is a tool that no sports field manager should be without. It is helpful for touchups, for painting contrasting colors quickly and as a backup for when the primary paint machine breaks down. Most sports field managers use some form of a powered paint machine. These include sprayers ranging from a CO<sub>2</sub> tank units to gasoline powered compressor or pumps to electric pump models. Push, self propelled and riding paint machines are available. Be sure that your machine is kept clean; in good repair and have spare parts are on hand.

(continued on page 5)



## SETTING YOUR LINES RIGHT WITH THE EMPHASIS ON STENCILING

(continued from page 4)

**Preparations for painting:** For best results, mow the turf (at least where the lines are) before painting. In dry weather, avoid painting right after mowing unless you give the turf some water. This will help prevent a burning effect. Avoid painting wet grass. Paint does not adhere well to wet grass. To remove dew, connect two 100 foot water hoses and with a person on each end, start in the end zone and drag the hose the length of the field.

Paint Can Tips: Before shaking, tap the can with your hand to gently break the marble loose, then shake vigorously to thoroughly mix the paint. If you store aerosol cans upside down, it will make it easier to break the marble loose. Avoid temperature extremes. In cold weather, fill a 5 gallon pail with hot water, and put the aerosol cans in to keep them warm. Some brands of spray paint have adjustable tips on the can that can rotate to make a wide or narrow line.

**Mixing Paint:** Dilute (if necessary) your paint per the paint or sprayer manufacturers recommendations. Mix paint by pouring bucket to bucket, or, use a drill powered mixing device or use a bulk paint dispenser with agitation mixing. For best results, always strain the product before adding to the paint sprayer.

**Paint Application Tips:** Always string your lines for the best results. If you are painting lines on dry infield dirt, first moisten the dirt with water. This will prevent the paint beading up in the dust. Remember that when painting lines, your gait will influence not only the quality of the line (straightness, brightness and width) but also how much paint you will use.

Stencils and Logos: Whether painting numbers, letters or your team's logo designs, stencils help you get that crisp, sharp, professional look. Stencils can be hard or soft. Flat number cut out stencils and logo stencil tarps with cutouts for "dotting" are both common. Other tools include hash mark sleds and batter's box frames. Some sports field managers use planks as straight edges for painting along wide out of bounds lines or along end zone letters. If number stencils become warped, place on concrete and allow the sun's heat to warm and flatten them in a couple of hours. When dotting stencils, use an aerosol can to do it. This way the paint will dry faster. When painting logos, paint a white base coat first and allow it to dry. Then paint colors on top. Don't go by the rule "If a little paint looks good, a whole lot of paint will look great!" Too much paint can be harmful to turf. On most logos and letters, a border around each will make your work stand out on the field.

**Paint Removal:** If you a make a mistake, be sure to keep an aerosol can of green paint or some turf colorant handy as an "eraser". I use a long handle, soft bristle truck washing brush and some mild soapy water as well as water hose for paint removal when necessary.

Sports field graphics make the game easier to play on and watch. Sharp looking field graphics draw the eyes away from field imperfections such as wear. It helps to create team pride, brings out the beauty of your field and showcases the talents of you and your crew.

Don Savard is a Certified Sports Field Manager (CSFM); Certified Grounds Manager (CGM); Director, Athletic Facilities and Grounds, Salesianum School; and SFMANJ Board Member



### **WELCOME NEW & RENEWED SFMANJ MEMBERS**

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### Dr. Henry W. Indyk Graduate Fellowship in **Turfgrass Science**

As many of you know, the turfgrass industry lost a dear friend and colleague in September 2005. We will all miss Henry very much and would like to insure that his legacy lives on. The Indyk family would like to establish a memorial fellowship to support graduate students interested in applied turfgrass science. This fellowship is being created to help assure that tomorrow's graduate students have the financial resources to get an advanced degree in turfgrass science at Rutgers University. To fund a full graduate assistantship each year in Henry's name, we will need to raise a total of \$400,000. Your generous support at this time will bring us closer to reaching this goal.

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For information on other ways to support this fellowship, please contact Dr. Bruce B. Clarke, Director - Rutgers Center for Turfgrass Science (732-932-9400, ext. 331; or clarke@aesop.rutgers.edu) or John Pearson, Director of Leadership Gifts at the Foundation, by calling (732) 932-7899 or email: pearson@winants.rutgers.edu

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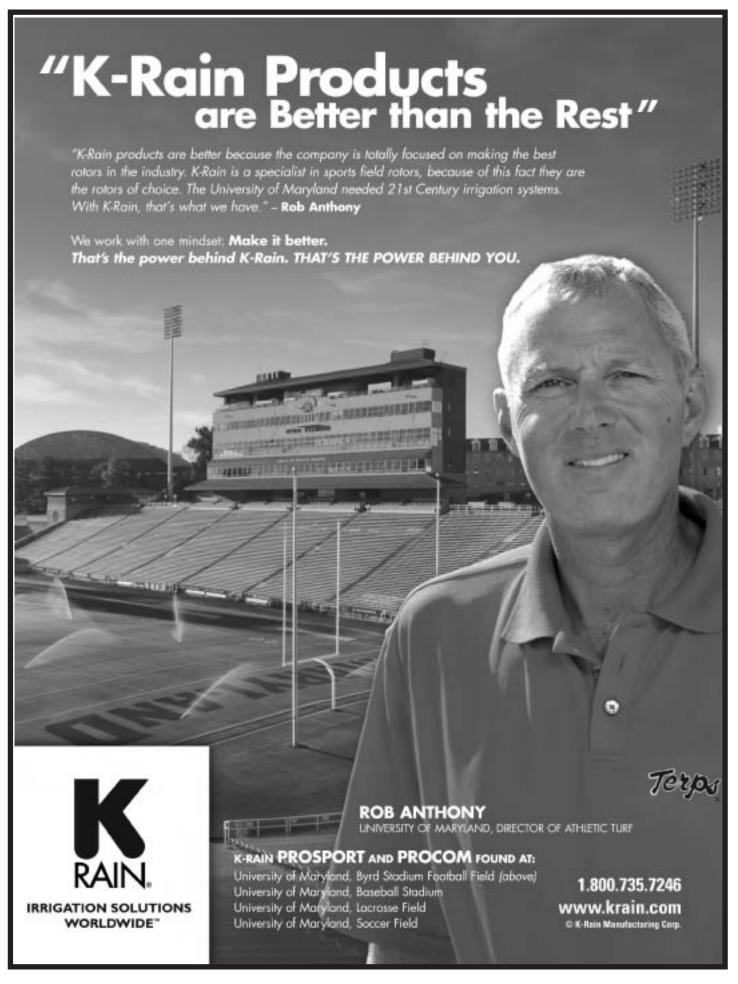
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## INFIELD SOILS AND TOPDRESSINGS - PART I

By Paul Zwaska

**Editor's Note:** The following article is the first in a two-part series and was written in 1999 when the author was Head Groundskeeper, Baltimore Orioles.

Baseball is a unique sport in grounds management. It's the only major sport that is played on a field that has both turf and exposed soil for a playing surface. Ballplayers scrutinize the playability of your skinned areas more closely than you're turf areas. Your reputation as a groundskeeper will depend on the skin you keep.

This is not to say that the turf areas on a baseball field are unimportant. But if you think about it, 75% or more of the game occurs on the skinned areas of the field. Unfortunately, this crucial subject is avoided by the academic institutions that teach many of today's up and coming athletic field managers.

With no written guidance, new groundskeepers must resort to trial and error if they haven't been lucky enough to learn from another groundskeeper in the business.

#### GOALS FOR A QUALITY INFIELD SKIN

**Traction:** Most players desire the same quality in an infield skin: traction. That's the reason for the spikes in their shoes.

Nothing makes a player happier than a firm infield skin that is moist and cork-like, not hard and baked dry. The cleat should penetrate the skin and leave a perfect imprint. Very little soil should be disturbed or displaced. When players plant their feet to throw, field the ball, or run, the soil should not give way under them. The traction in your infield skin comes from its base soil. Choose your mix carefully. Many companies that sell infield skin mixes know nothing about their proper function.

Many mixes are too sandy. Soils that don't firm up (high sand content of 75% or higher) are more mobile. This creates low spots in high-traffic areas (around bases and fielders' positions) more quickly, especially as the field dries out. The loosened material is more likely to be carried to other portions of the field to create high spots and huge lips at the infield skin/turf interface.

These sandy infield mixes increase infield skin maintenance problems. The loose soil also causes unstable footing for ballplayers, increasing the risk of foot, ankle, and hamstring injuries.

**Drainage:** The proper drainage on your infield skin dictates how quickly you will resume play after a rainfall. About 95% of the water that falls on the skin should run off the surface.

Good surface grade and proper maintenance techniques will give you the best results. Your infield skin should have a minimum 1-1/2-inch fall from the front of the skinned area to the back. Percolation rates on a good, firm infield skin should be 0.03 to 0.05 inches of rain per hour. Only in rare, special problem areas should a sandy infield mix be used to help drainage problems.

Drainage lines installed under the infield skin are a waste of time. If you use the proper soil for the skin, it will never perk enough rain to reach the drain tile. A drain line is more appropriately positioned five to 10 feet behind the infield skin in the shallow outfield. Here it will capture water that runs off of the

skinned areas.

Amending infield soils with various miracle materials to enhance drainage throughout the skinned area usually proves unsuccessful. At best, these amendments provide a very shortlived remedy.

**Topdressing:** Choose the proper topdressing to work with your base mix. Think of your skin as a two-tier profile: the top 1/4- to 1/2-inch consists of your topdressing, and the remainder consists of your base infield mix.

The topdressing on the skin provides a cushion for the players. It creates a buffer zone between the players' cleats and the moist base soil mix, and prevents the soil from sticking. The topdressing layer also helps you endure light rain showers during games.

Don't go any thicker than a 1/2-inch layer of topdressing on the surface of the skin. A deeper layer will cause the ball to skid under infielders' gloves instead of taking the proper hop. It can also drastically influence a ballplayer's traction.

#### **INFIELD BASE SOILS**

**Testing:** If you don't know the percent breakdown of sand, silt, and clay in your skin base mix, have it tested to give you a reference point for comparisons. Send a sample of your soil to a private testing lab or county extension office that performs particle size analysis or soil texture analysis work. These labs will give you the composition percentages, and they'll show you where your soil fits into the soil texture triangle. A simplified home version of the test is also available. It can give you a ball-park figure of your percentages.

There is a simple way to get an estimate of the percentages of sand, silt, and clay that are in your base mix. This experiment provides a nice, cheap way of checking soils if you are looking around and can't afford to do a lot of testing.

#### **DETERMINING SOIL TEXTURE**

**Step 1.** Obtain a quart mason jar with a lid, like the ones used for canning. Fill it a little more than half way with the soil you wish to test. Fill the rest of the jar with water, and attach the lid tightly.

**Step 2.** Shake the jar vigorously for a couple of minutes to fully separate and wet the soil. There should be absolutely no lumps of soil left when you're finished agitating it.

**Step 3**. When you feel that the soil is fully dispersed in the solution, set the jar down and begin timing. After 45 seconds, mark a line on the side of the jar with a grease pencil or White-Out where the top of the layer of sand has settled out in the jar. Next, put a mark at the top of the next layer after three hours have passed; this is your silt layer. After 24 hours, your clay will have settled out as well.

(continued on page 9)

### INFIELD SOILS AND TOPDRESSINGS - PART I

(continued from page 8)

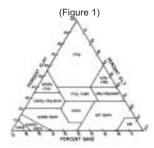
**Step 4.** Measure the total depth of soil in the mason jar. Then measure the thickness of each of the three layers using your marks on the jar.

**Step 5.** Calculate the percent of sand, silt, and clay in your soil sample with the following procedure:

- 1. Divide the thickness of the sand layer by the total depth of the soil in the jar.
- 2. Follow the same instructions for both the silt and clay layers.
- 3. Multiply each of the three figures by 100, and you will have the percentages of sand, silt, and clay in your sample.

**Step 6.** You can now check the soil texture triangle to see where

the intersection of the three values places you on the triangle (see Figure 1). Remember that this is an estimate. If you need a more precise test, it is worth your while to have a professional test done by a private lab or a county extension office.



Soil testing labs use a couple of different quantitative methods to determine relative amounts of soil

separates. Once the relative amount of sand, silt, and clay are known, you can determine the soil's textural class using the soil texture triangle provided. Each side of the triangle represents the relative content or percent of one of the three soil particle size classes.

**General Guidelines:** Remember that soils differ greatly around the country and they react differently to many things. The following gives generalizations as a guide for base mixes. Soils in your area might not always fall into these guidelines.

You want to keep the sand fraction of your base soil between 50% and 75% (normal base mix). Soils with higher sand content normally become too loose and mobile. The soil becomes loose with play and is transported to other areas of the skin by the dragging process or by play.

You may think you'll gain drainage if your base mix has high sand content. In fact, it creates more maintenance headaches.

The mobile soil rapidly develops high and low spots in the skin, and lips at the skin/turf interface. Those low spots and high lips interfere with the surface flow of rainwater draining off the skin, and large puddles develop.

In base mixes with higher sand content (>75%), there is not enough binder (clay and silt) to hold the soil firmly together. As a game progresses, the skin becomes more loose in the high-traffic areas. This reduces traction and increases risk of injury to feet, ankles, and hamstrings.

Soil texture affects many properties of soil. Compactability, porosity, bulk density, water-holding capacity, and drainage are all affected by the makeup of the soil.

Soils high in sand normally hold very little water and drain rapidly. Soils high in clay normally hold large amounts of water and can drain variably, depending on structure.

Soil texture refers to the percentage of sand, silt, and clay particles in a soil. These particles are defined by their size.

To tighten up a high-sand base mix, till in a nice clay loam soil. Add several tons at a time, till it, work it, let it settle, and pack and see how it reacts before you add more.

High-clay and high-silt soils create a different problem: compaction and hardness. Generally speaking, the combination of these two materials should not exceed 40% to 50% of your soil mix. Too much of either of them can inhibit intake of water into the skin due to lack of pore space from compaction.

The result is a hard field that is unable to take up moisture to help soften it. The best solution is tilling in calcined clay to help reduce compaction and increase pore space. But be careful not to blend in too much material.

Again, add your calcined clay by a couple of tons at a time. Till it, work it, let it settle, and pack and see how it reacts before you add more. The alternative is to replace the base mix with a new mix.

Rocks and pebbles in an infield base mix can be a major problem. Your base soil should be able to pass through a 1/4-inch screen, or at the very least a 3/8-inch screen, to eliminate any rocks or pebbles.

For Oriole Park at Camden Yards, I use a 60% sand, 20% silt, 20% clay base mix. This translates to a borderline sandy loam and sandy clay loam. I've used it since the day we moved here. It's a very stable soil with little mobility. Low spots on my infield are rarely a problem, but that is also partially due to the management of the skin.

The lesson to be learned here is don't just pick any old soil for your base mix. Know what you are getting by asking for a soil particle size analysis.

And whatever you do, don't purchase a mix just because some salesman says that he has "x" ballclub and "y" ballpark using it. Most of those people have zero knowledge of what kind of soil creates the best infield skin.

Paul Zwaska, Beacon Athletics, Middleton, WI.
Paul provides technical support and troubleshooting for
Beacon Athletics customers.



### SFMANJ Spring Field Day 2007

South River, NJ and Rutgers Hort. Farm II April 12, 2007

#### **PROGRAM**

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RUTGERS HORT FARM II, North Brunswick, NJ

7:00-7:30 am 7:30-8:00 am 8:00-8:45 am 8:45-9:00 am 9:00-9:30 am	Vendor registration and set-up. Trade Show and attendee registration Trade Show & Vendor Introductions So. River and SFMANJ Introductions Management of Edward Grekoski Park basebal field	12:00-12:45 12:45-1:00 1:00-1:30	Lunch Introductions Kentucky bluegrass wear tolerance research & methods to accelerate spring greenup Brad Park, Rutgers Center for Turfgrass Science
9:30-10:00 am	Bob Walker, South River DPW Interpreting a soil test Dr. James Murphy, Rutgers Center for Turfgrass Science	1:30-2:00	Tall fescue and perennial ryegrass options for sports fields Dr. Bill Meyer, Rutgers Center for Turfgrass Science Spring weed control strategies
10:00-10:30 am	Equipment Demonstrations	2.00-2.30	Dr. Steve Hart, Rutgers Center for Turfgrass Science
10:30-10:50 am	Infield grooming techniques Jim Hermann, Total Control Inc	2:30-3:00	Safe handling of pesticides  Dr. George Hamilton, Rutgers Pest Management
10:50-11:10 am	Sorting-out skin surface conditioners	3.00	office Adjourn & Pesticide credits

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