Prepare baseball & softball fields NOW for 2005

BY MIKE ANDRESEN, CSFM

It's our job and our passion to get worn-out fields back in shape and healthy enough to withstand the overseed that is sure to come in 2005. The last thing you might want right now is to tackle year-end projects on your baseball and softball fields, but getting the work finished early allows the beautiful fall weather to shine and polish those diamonds!

Your first consideration should be, do you need a major renovation? It’s not too late to make plans for irrigation, drainage, or construction projects, but at this point you should be finishing the detailed specifications and not just jotting ideas down. The goal for fall is to maximize every wonderful day of great growing conditions. The earlier you can get back out on your fields and complete fall projects, the more mature and healthy your fields will be when you start play in early spring, so don’t waste even one day of this opportunity.

Start by looking at your turf. Fall is the perfect time to grow cool season grasses. Weed competition subsides by early fall and rain becomes more predictable. If you drill seed during mid-August it will quickly germinate and have the entire fall season to establish.

Seed companies are providing much more technologically advanced varieties than even a few years ago. Take advantage of enhanced varieties and overseed as many of your field areas as you can. Seed is cheap! The best weed control program for next season is a good seeding program this fall.

To make your fall seeding program even better take advantage of freshly aerified turf. I recommend pulling cores at least once per month until winter charges in, if possible. Mow the field as short as is healthy just before aerifying. Immediately after you pull cores in August and September fill your fertilizer spreader with quality grass seed and go over your field, spreading the seed and making double or triple passes on particularly worn areas.

I then recommend drill seeding the field at this point, as the seeder blades will shred the cores. If you do not have access to a drill seeder, use the infield drag or a topdressing brush to break up the cores and move the soil and seed into worn areas. (The lower mowing height aids this step.)

This is also a perfect time to apply a starter fertilizer, one that is high in phosphorous, as the mostly immobile phosphorous can be better distributed through the aeration holes and new seedlings need phosphorous.

More ideas

Driving equipment from the field gates to the infield has left us with a path of worn turf. We remedy the situation by topdressing 3/4-inch of crumb rubber onto this pathway. It’s important to only apply one quarter of an inch at any one time. The crumb rubber, in effect, built us a “roadbed” for our equipment to travel on. It protects the crown of the plants, keeps tires from compacting the soil, as well as out of the mud during wet periods. This process took us from a badly worn area to now not even being able to tell how we get our equipment on the fields. Try it!

Fall is also a great time to annually take soil samples and send them to a lab. Do it before fertilizing. Your results will help you determine if any supplemental fertility needs are warranted on your fields. Use the results to modify your fertility program and remember to apply 2/3 of your annual nitrogen needs during the fall growing season.

Many times we need to sod worn areas in the fall. By doing this work early in the fall we’re sure to get the sod knitted and established before winter dormancy comes. If you get behind the 8-ball and have to sod late, you may be forced to use thick cut sod to ensure playability come early spring.

When considering sod, be sure to inventory the lips of grass around all soil or warning track areas. Give your field lips the “Dr. Dave Minzer Test” as we’ve come to know it in Iowa. Stand on the lip area, facing the outfield wall, with your toes on the soil and your heels on the turf. If you can shut your eyes and feel a seam where the soil and sod come together, you need to renovate your lips.

During spring and summer you worked diligently sweeping, blowing, raking, and power washing the lips to make the transition of soil to grass seamless. At times during the past season you may have been forced to cut the lips out with a spade of sod cutter. When you check the health of your infield lips it is very likely you will find that the infield mix has encroached onto the first foot or so of turf. This is almost unavoidable. The turf looks very healthy but close inspection with a knife shows that crowns of plants are buried in infield clay or warning track material. Remove that bad turf, replace it with a strip of sod and start next season off with fresh lips.

One trick we use is to cut sod from foul territory in the outfield, or along the warning track and use it for new infield lips. This ensures the turf color matches up to the surrounding infield turf. Use sod from your nursery or a turf farm to replace the missing outfield strips.

Re-sodding tips

If you have only small areas that need resodding, such as in front of the mound, consider this less-intrusive method: Borrow a cup-cutting tool from your local golf course and cut out 2-inch deep plugs (or shallow cups) of worn out sod from in front of your mound. We like to use the 8-inch diameter cutter. Find an

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area in the outfield or your nursery to cut plugs of the same depth and use these to replace those you cut out from in front of the mound. Place a guideline on the cup cutter with a permanent marker to ensure you cut consistently deep plugs. Within days these new plugs of sod will fill in and form a solid stand of turf. We only recently adopted this practice but the results from this “micro-sodding” have been fantastic.

On the subject of cutting sod, I recommend not having cut out areas for coaches boxes, fungo or on-deck circles. Unless meticulously maintained these areas usually become depressions in the field of play makes me tolerant of the worn-out turf look. The proof is this: if you cannot close your eyes and walk from the grass onto the rocked areas without noticing a change in grade from one to the next, it’s time to remove the aggregate and sod them in. I’ve seen these areas edged with wood boards, commercial edging, concrete, and asphalt. All are hazardous to athletes and should be removed immediately.

**Irrigation concerns**

Irrigation is one element of your field that needs consistent attention. Are your drives and nozzles the same as specified originally? If not, you may be setting yourself up for inefficient precipitation rates or improper field coverage. All irrigation heads should be at the proper grade with no sunken areas, or “bird baths” in which someone could twist or break an ankle. Fall might be a time to renovate or upgrade your irrigation system. Double check that your rain shut-off sensor is mounted and in good operating condition to save you money and embarrassment from having the irrigation run while it’s raining. Many people spend hours each day hand watering the infield skin in an effort to keep moisture at optimum levels for evening play. Consider putting some of the faster rotating heads around the infield skin (infield and outfield edges) and have them face toward the skin area. If your diamond has irrigation already, this is an excellent and easy solution for you to cut some of the “hose time” that all of us accrue in season.

It’s key that these heads only water the skin area and are not double up on any of your turf areas. Sure, windy days may have you still hosing down dry spots but you’d be surprised how frequently these heads can be used to your advantage. Because the heads rotate at a high rate of speed the coverage is thorough before large amounts of water accumulate in any one spot. Visit with a knowledgeable irrigation specifier or consultant to ensure you get desired results.

The nuts and bolts on any diamond is the skinned infield area. Far and away the majority of all softball and baseball games are determined within this small area, and it is where your reputation as a sports turf manager will be made. I have read articles that recommend varying percentages of clay, silt, and sand. One thing is for sure: you need to have your infield mix tested before a recommendation can be made. (Dave Miller here at Iowa State is running an on-going study on infield skins and would appreciate your sample as well.) You know whether your skin plays too soft or too hard. If you’re unsure, talk to the players or coaches. Knowing the exact composition of your infield skin can help you decide whether the remedy for your problem may be adding clay or sand, or maybe one of the many infield products available from commercial vendors. Fabulous skin products are available to help remedy soft and hard or wet and dry playing conditions on your field.

If you intend to add a product to your skin you must scarify the existing skin before adding the material. Work the product to a specified depth so that your top 2-4 inches of skin are consistent. Merely “capping” or topdressing an infield with any product will not alleviate problems. By not working the mix a specified depth you will create a shear plane just below the top layer at which the field will break apart during play. The upper and lower planes may have two differing optimum moisture levels that will be impossible to manage. Consistency in your infield is the goal. To allow players to be comfortable fielding on your infield skin you want the ball to respond exactly the same from every spot in your skinned area. This means you need to have consistent material and moisture in the top 4 inches of your surface.

Winter winds often blow skin materials into adjoining turf areas causing lips. Higher budget facilities are purchasing special infield tarp that cover skinned areas of ball diamonds during high wind winter months. A less costly way to control blowing and drifting of infield skins is to erect a simple but effective snow-fence-like barricade. Managers are placing 2 x 4-inch boards along the front and back edges of their infield skins, about 6 inches from the adjoining turf edges. Spikes or sandbags are used to anchor the boards to the infield. The snow fence effectively keeps the infield material from blowing into the outfield and infield turf. Upon removal of the boards in spring you will find a ridge of infiel mix along side the boards that you simply grade and drag back into the infield.

**Bagged materials work**

The clay areas seem to require most of our focus during the season. There are...
ways to save yourself much of the drudgery of tamping clay but to do so takes commitment from you and your staff. Many mounds, home plates, and bullpens consist of native clays from local sources. I encourage you to consider using one of the many available bagged clays, clay mixes, or unfired brick products. These materials are screened, shredded, and bagged at optimum moisture levels to produce ready-to-use products. For softball, consider introducing the clay products around bases to help prevent holes in areas of these field areas. For mounds, the edge of bases.

To install any of these products you should remove the existing clay to a depth of 4-6 inches from the working areas of these field areas. For mounds, this means in front of and behind the rubber as well as the landing area for any size pitcher. At home plate it is best to do the entire batters box areas as well as the catcher’s area. After you remove the existing material you should lightly water the area (no puddles!) and rough up the area with a garden rake.

If you’re using a bagged clay product you should install the clay in "lifts." This means if your area is 4 inches deep, you should install to a 2-inch depth, pack it in with a tamper, lightly scratch with a garden rake in preparation for the next "lift," then add another 1 1/2 inches of material. The raking of the surface of the compacted clay allows the subsequent layer of material to adhere and form one solid bed of clay. Fill the entire depth of the working area with clay then add a thin layer (1/2 inch) of mound mix or native clay on top to finish off the project.

If you choose to use unfired clay bricks as your base the process is similar to the bagged clay except that the depth of your dug out area should start out only slightly deeper than the depth of your bricks. Lightly water and rake the native material to ensure you get positive adherence between profiles. Lay the bricks as you would any pathway.

At this point I’ve seen success achieved a couple different ways. A practice I like is to then add a thin layer of bagged mound clay, water gently with a garden rake in preparation for the next “lift,” then add another 1/2 inches of material. The raking of the surface of the compacted clay allows the subsequent layer of material to adhere and form one solid bed of clay. Fill the entire depth of the working area with clay then add a thin layer (1/2 inch) of mound mix or native clay on top to finish off the project.

Beyond the field

Now that you’ve achieved your field goals for fall renovation, it’s time to look beyond the playing field and into the stadium. Inventory and repair all fences and padding that may have been damaged by mowers, vandalism, or players. You shouldn’t have loose or jagged materials on which players could potentially injure themselves. Document hazardous items for repair on a safety checklist. Check bleacher areas for sharp edges or missing parts. Much legislation has occurred around the country regarding bleacher safety and you are the first defense against liability claims. If something is in need of repair it is probably your responsibility to identify and rectify it.

You or someone needs to check out the field lighting and determine its efficiency. Maybe there are burned out bulbs, ballasts that are inefficient, or other items that could be dangerous to fans, players, or your staff. Many different people judge our facilities from many different perspectives. To have yours identified as “first class” you need to think about all aspects of your baseball and softball complex, not just the playing surface.

I encourage you to also take the fall season to work on your relationships. Many times it’s the relationships we nurture that prove to be long-term benefit to us.

Write thank you notes to team and league officials and let them know you appreciate their care and commitment to these facilities you share. Write a note to key commercial suppliers and thank them for their efforts in support of your operation. Jot down a note to your employer and let him or her know how much you appreciate their support throughout the year. Express how vital continuing education is to the maintenance of your facility. Explain how attending a conference or local workshop will have lasting benefit and long reaching impact for your operation. Our challenge is to sell our profession and we do this through professional interaction with others and our outward image.

Don’t just be the person that comes in each day, mows the grass, drags the dirt, and paints the foul lines. Come to work and prove that you are a professional sports turf and athletic facility manager.

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