

Rejuvenating Your Baseball Field for a New Season

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Rejuvenating Your Baseball Field For a New Season

Paul Cushing Agronomist – Sports Field Specialist



THANK YOU DR. KENT KURTZ - STMA PIONEER



PAUL CUSHING - AGRONOMIST



TORREY PINES GOLF COURSE RIVIERA COUNTRY CLUB SHADOW CREEK GOLF CLUB EDGEWOOD TAHOE GOLF CLUB

TORREY PINES GOLF COURSE – SAN DIEGO CA





TORREY PINES GC - #1 MAINTAINED GOLF COURSE ON THE PGA TOUR - 2014



PC TURF - AGRONOMIC SERVICES

Professional Soil & Water Testing

Analysis and Independent Fertility Recommendations

Sports Field Agronomic Day & Monthly Visits

Spraying Services

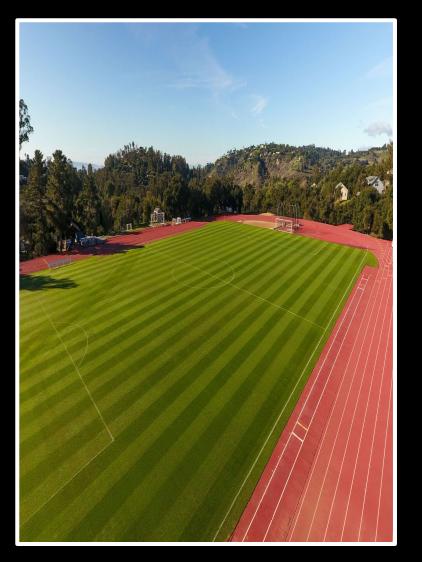
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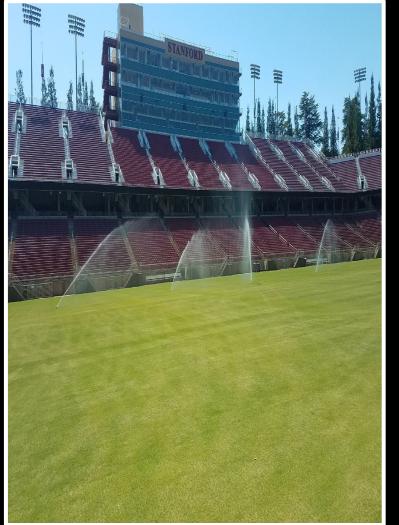






UNIVERSITY ATHLETIC FIELDS







PROFESSIONAL FIELDS

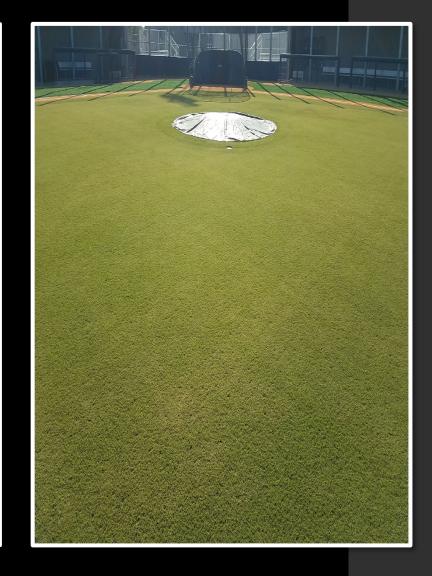






HIGH SCHOOL SPORTS FIELDS





YOUTH SPORTS FIELDS







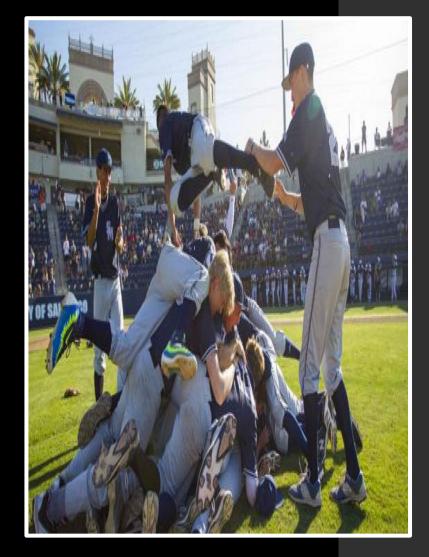
HIGH SCHOOL – TRAVEL – YOUTH COACH





REJUVENATING YOUR BASEBALL FIELD FOR A NEW SEASON SESSION GOALS

- Proper Turfgrass Selection & Management Practices
- Proper Mowing Height of Cut (HOC)
- Soil Testing + Understanding Results + Balancing Soil Chemistry
- Aerification & Cultural Practices
- Infield Dirt & Mound Management + Preparation
- Irrigation Strategies



UCLA – JACKIE ROBINSON STADIUM Westwood CA





CAL POLY SAN LUIS OBISPO – BAGGETT STADIUM SAN LUIS OBISPO CA



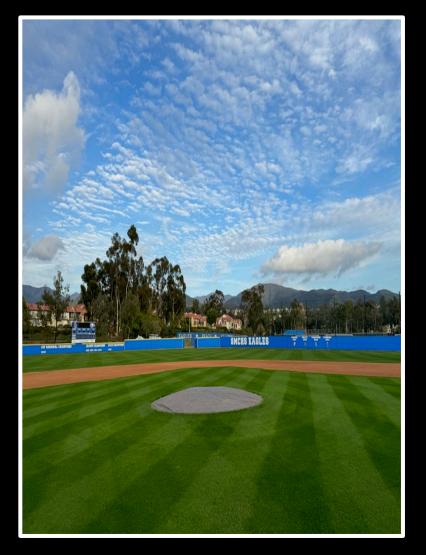


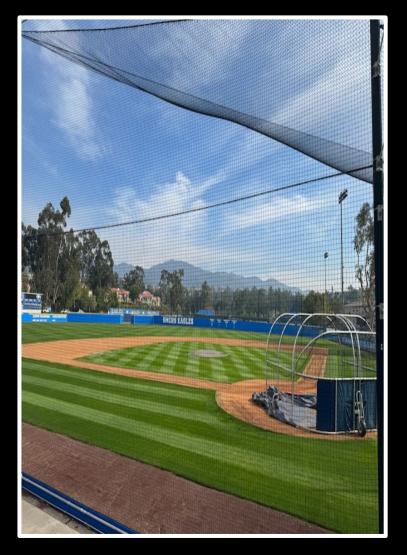
SANTA MARGARITA CATHOLIC HIGH SCHOOL Orange County CA

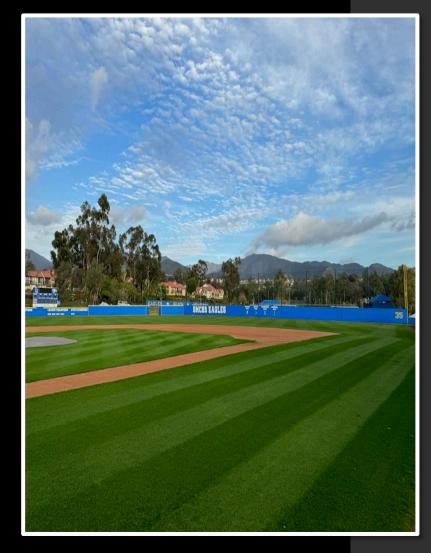




SANTA MARGARITA CATHOLIC HIGH SCHOOL 2024

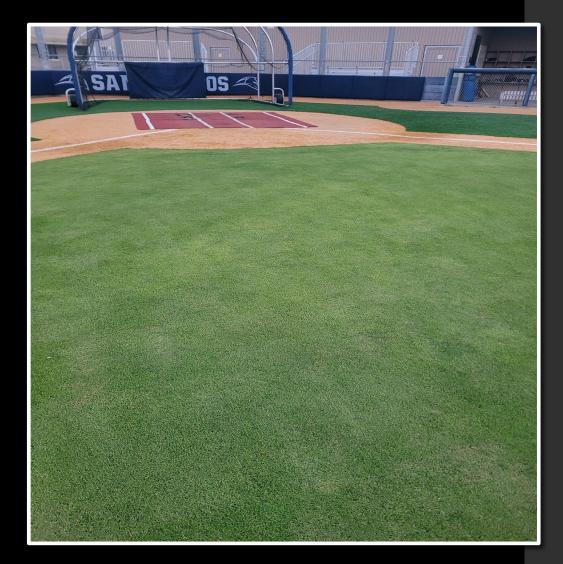






SAN MARCOS HIGH SCHOOL SAN DIEGO CA





MISSION HILLS HIGH SCHOOL SAN DIEGO CA



WEST HILLS LITTLE LEAGUE BASEBALL WEST HILLS CA







PROPER TURFGRASS SELECTION & MANAGEMENT PRACTICES



PROPER TURFGRASS SELECTION

- Dependent on time of season and location
- Bermudagrass (warm season) turf base is desirable in the southern states
- If overseeding is necessary, transitioning out after season is essential
- Turf pigment is an important tool instead of overseeding
- Solid tine aerification and sand topdressing is essential during season regardless of turf type
- Use of Slow-release fertilizers throughout the growing season is extremely important

HEIGHT OF CUT (HOC) ON YOUR BASEBALL FIELD

- Turf Management 101 tip- never mow off more than 1/3 of a turfgrass leaf blade at one time
- Lower HOC in spring when turf is greening and coming out of winter dormancy
- $\frac{3}{4}$ " to 1 $\frac{1}{4}$ " is a proper HOC for a baseball field
- Raise HOC in summer when turf is under heat stress
- Lower HOC in fall again to keep turfgrass canopy tight
- When possible, use reel mowers for lower HOC
- Fun Fact!!!- The lower the HOC & mowing the field on a greater frequency, the fewer weeds you'll have in your turf areas
- When possible, use turfgrass growth regulators on highly maintained fields





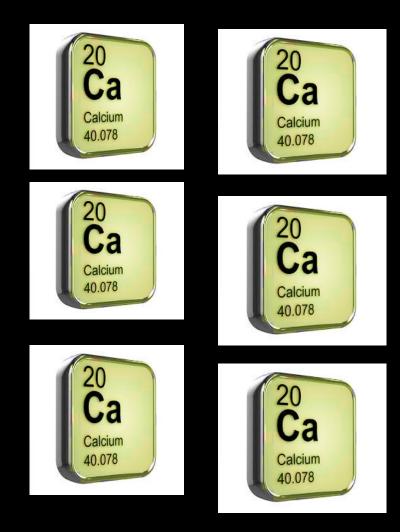
IMPORTANCE OF SOIL TESTING & BALANCING SOIL CHEMIST

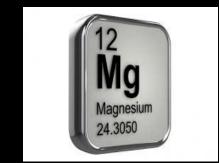


PROGRAMS TO COMBAT POOR SOIL QUALITY

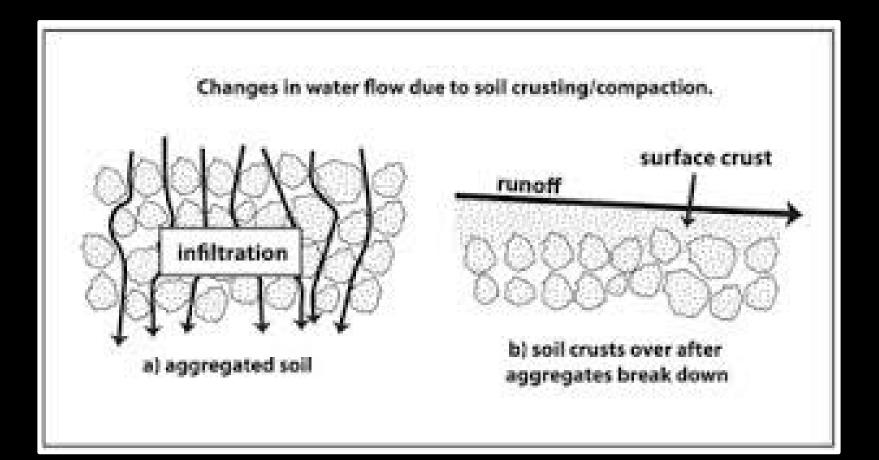
- Soil and water testing 2X per year
- Deep and infrequent irrigation cycles
- Utilize calcium to regularly leach salts and improve soil structure
- Frequent applications of Potassium to harden off plants & strengthen cell walls (Added turgidity)
- Water treatment (Magnetic or Reverse Osmosis) *Turbulator by Magnation*

BUILDING A HEALTHY SOIL – WHAT'S THE PROPER RATIO?





BALANCING CALCIUM AND MAGNESIUM



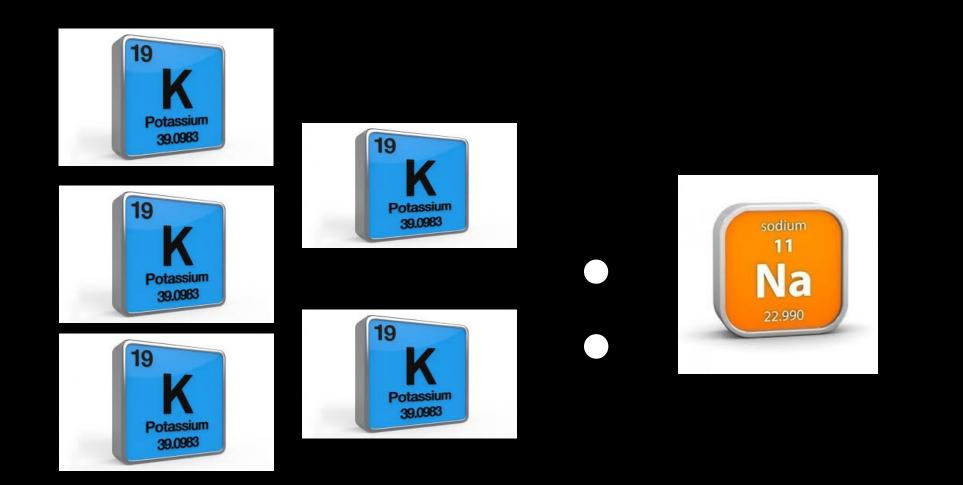
CALCIUM TO MAGNESIUM RATIO

<u>Ca:Mg - 6:1</u>

- Soils Flocculate Infiltration and percolation of water in the upper rootzone
- Nutrients in soils have greater availability
- Drier soils = healthier plants
- Less weed populations (Poa annua)



K:Na - A REALLY IMPORTANT RATIO!!!!



PAY CLOSE ATTENTION TO THESE DETAILS WITH YOUR FIELDS Information About Your Soil Testing That Really

<u>Matters</u>

- Ca:Mg Ratio 6:1 (Water Movement)
- K:Na Ratio 5:1 (Nutrient Availability Plant Turgidity
- Sulfur -100 (Gypsum vs. Hi-Cal Lime)
- Organic Matter (1%-2% Sand Based Fields)
 (2%-5% Natural Soil Based Fields)
- Iron and Manganese (Color)
- \bullet Phosphorous 400 and Above



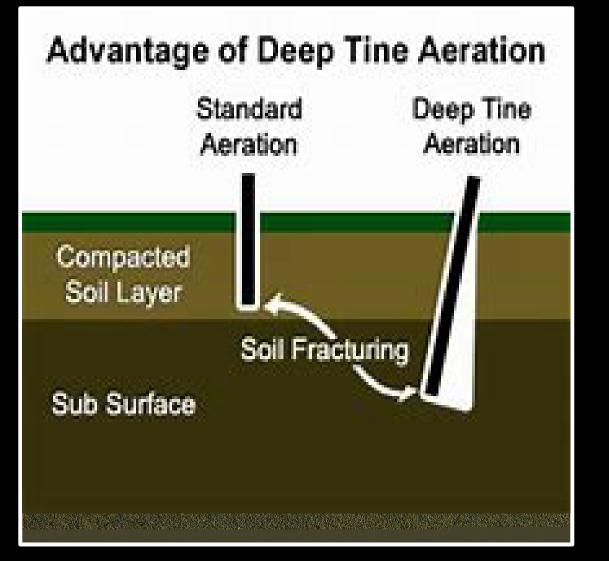


IMPORTANCE OF PHYSICAL AERIFICATION





IMPORTANCE OF DEEP TINE AERIFICATION





WARM SEASON GRASS VERTICUTTING







SAND TOPDRESSING BASEBALL FIELDS





WEED CONTROL

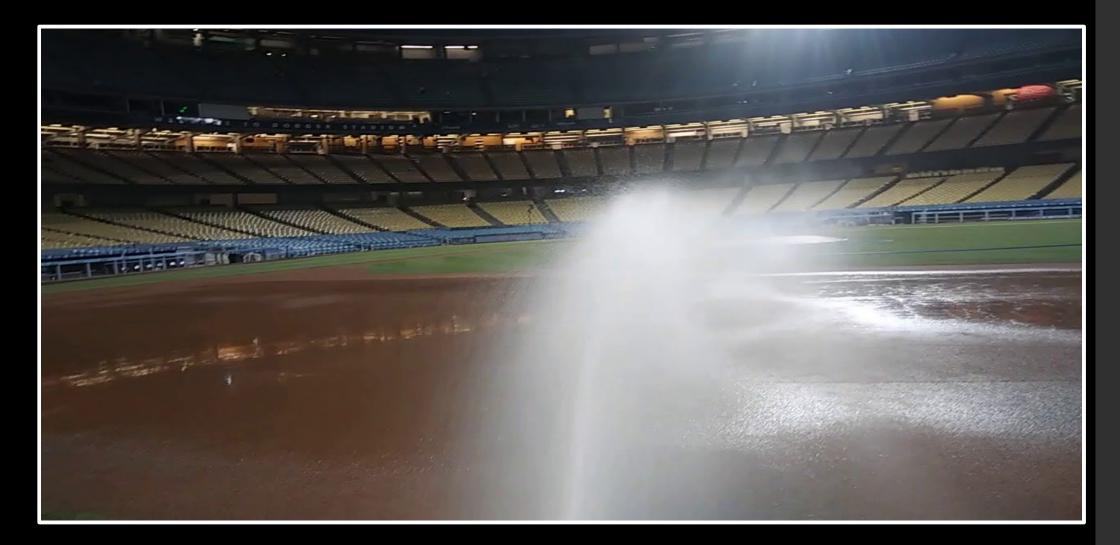
- Proper HOC and Mowing Frequency plays a key role in weed control
- Combination of carfentrazone-ethyl, mecoprop-p acid, dicamba acid and 2,4-D & clopyralid are a solid mix to control a broad spectrum of broadleaf weeds
- Let materials sit on leaf blades at least 24 hours before watering
- Water all weed control applications before allowing players to utilize fields
- Add fertilizer and/or wetting agents to improve chemical uptake of weeds
- Apply pre-emergent weed applications 2X per year to control broad leaf weeds



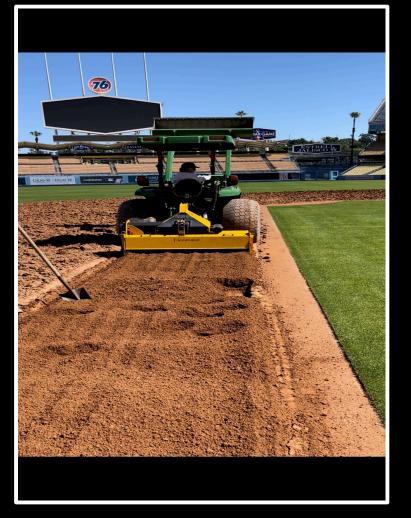
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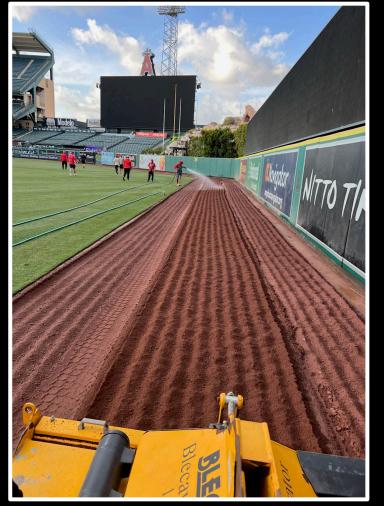
Baseball Field Dirt Management

MOISTURE...MOISTURE....MOISTURE!!!!



ROTO TILLING – SCARIFYING – NAIL DRAGGING







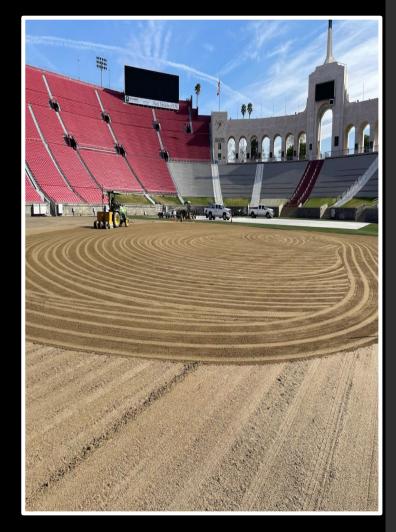
MOISTURE...MOISTURE....MOISTURE!!!!



LASER GRADING – FINISH GRADE







MOISTURE...MOISTURE....MOISTURE!!!!





ROLLING





PLAY BALL!







KEY TO SUCCESS FOR DIRT INFIELDS

- 60% Clay 40% Sand Mix is ideal for baseball infields
- Proper use of stabilizer products for surface management
- Heavy water after games & practices
- Nail drag the following morning
- Keep moisture up during the day (Spinklers/Micros)
- Cover home plate and mound to keep from drying out



WATER MANAGEMENT STRATEGIES





WATER MANAGEMENT

- Deep and infrequent water schedules
- Water during off days
- Hand watering during season
- Utilize micro emitters for leaching
- Use of wetting agents/surfactants
- Solid tine aerification for water movement

MICRO EMITTER SPRINKLERS







SEASONAL SCHEDULING

"Failing to prepare is preparing to fail" $_{\text{John}}$

- Utilize slow-release fertilizers (Methylene Urea) on a quarterly basis during growing season to maintain a baseline of growth
- Aerify as often as possible (At least one time core aerification and as many solid tine aerifications as possible)
- With warm season grasses verticut/tickle every 4-6 weeks during summer months
- Sand topdress monthly during growing season
- Apply pre-emergent herbicide applications in early spring and fall for broadleaf & grassy weeds



CONTACT INFORMATION



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