

# Soils support recreation



# J\$\$U\$8

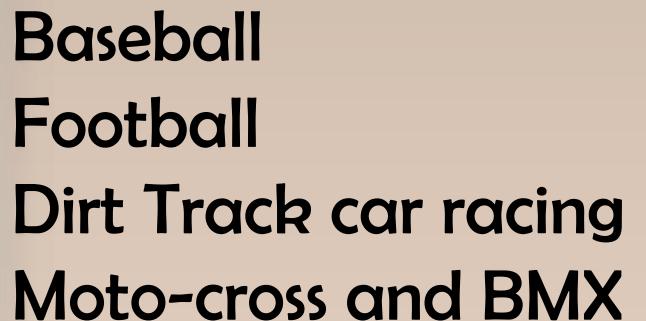
#### Soils Support Outdoor recreation:

A walk in the woods
A day at the beach
Hiking
Camping
Painting
Birdwatching
Trail bike riding



Soccer
Golf
Horse Racing
Baseball

Good Sports need Good Soils:





#### Clean Water comes from the Soil:

Fishing
Canoeing
Swimming
Boating



## Sciences

#### Getting the Soil Right matters:

Athlete's Performance

Speed

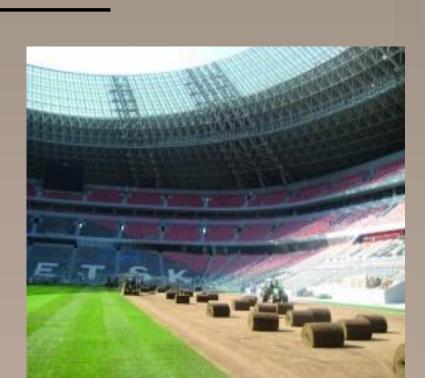
Maneuverability

Safety of the athlete

Durability of the sports field/track Management/ maintenance costs

Water holding capacity

Resiliency of turf



## Creating the Right Soil:

#### Churchill Downs Main Track recipe:

3 inches sandy loam cushion

5 inches sandy loam compacted

12 inches clay base

24.5 inches sandy loam/natural soil



Understanding texture:

A baseball diamond requires 4 different soil types

## Maintaining Soil for Recreation:

Avoid compaction

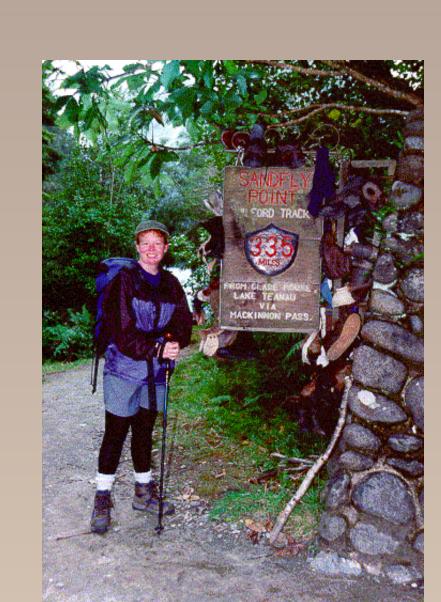
How to mitigate compaction

Use of amendments to protect and improve soil quality

Understanding impacts of disturbance Understanding limitations to use



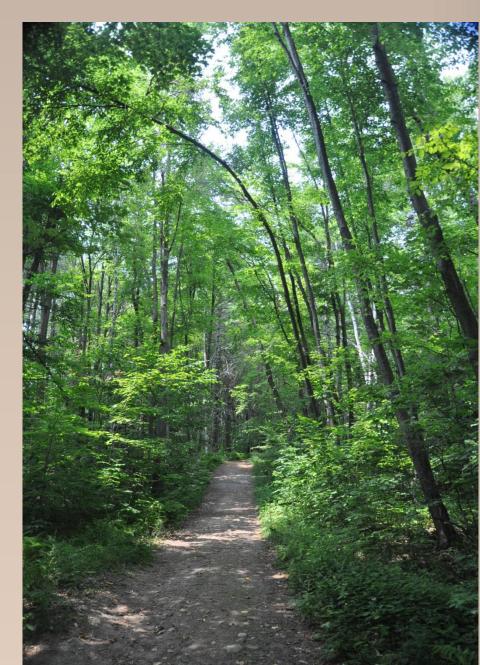
















## Resources:

#IYS2015

Treadlightly.org/

<u>Sport Fields: a Manual for Design, Construction and Maintenance</u> by Jim Pulhalla, Jeff Krans, and Mike Goatley <a href="http://www.ultimate-baseball-field-renovation-guide.com/">http://www.ultimate-baseball-field-renovation-guide.com/</a>