# Desert Mountain Club

#### GOLF IS GREEN – GREEN IS GOOD Presented by Shawn Emerson, Director of Agronomy







- 1. Irrigation Delivery System
- 2. Turfgrass Varieties
- 3. Soil Conditions / Types
- 4. Irrigation Water Quality
- 5. Environmental Conditions
- 6. Using Technology

**Irrigation Delivery System** 

- Gallons per Minute
- Gallons per Kilowatt
- Precipitation Rate (/E.T.)
- Cycle Time

# **Irrigation Delivery System**

- Uniformity
- Spacing
- Pressure
- Arc (part circles)

# Cool Season Warm Season Height of Cut / Clipping Yield

**Turfgrass Varieties** 

### Soil Condition

Sand / Silt / Clay
Infiltration Rates
Moisture Retention
Nutrient Holding Capacity
Monitoring / Trend Analysis

### Irrigation Water Quality

Water Source

Reclaimed / Ground / Potable

Elemental Content

TDS, Nutrients, Salts, Sodium

### **Environmental Conditions**

# Weather Patterns Humidity / Rain Fall Wind Shade

# Technology

# Monitoring

- -Irrigation Platform (software)
- -Moisture meter
- -Firmness meter

### Irrigation Platform

- Weather station
- Irrigation computer
- Sensor readings
- Playable conditions
  - Trufirm
  - Ball speed

# Technology

# Targets

- -Determine Optimal for your Course
- -Alerts on trend data
- -Consistency of practices

**Irrigation Water Quality** 

# Na ~ 290 ppm vs. 125 ppm -4 tons of Sodium Chloride – ac/yr

### Irrigation Numbers

- 19,000,000,000
- 3,000 gpm
- 2,000 heads / course
- 6 hr. duration
- 0.75 in. hr.
- 2,000,000 g/ac (overseeded)
- 1,500,000 g/ac (non-overseeded)

### Irrigation Numbers

- 55 ft. spacing
- Full / Part
- 1 vs. 3 individual vs. block
- 0.4 e.t.
- 12% ~ 24%
- 6 ~ 15 min. cycle
- 90 acres
- 4.9 ac.ft.
  - 325,851

