

Introduction

Phoenix area turf managers now have access to FREE turf water use information via fax, email or the Internet. This free service is provided by the Arizona Meteorological Network (AZMET) which generates turf water use estimates using data collected from a network of automated weather stations located in the Phoenix area.

Signing up for this free service is as easy as 1) selecting a report format and 2) selecting the delivery method that best fits your operation. This brochure provides the details you need to sign up today.

Select a Format

Information on turf water use is available in two ready-to-use formats. Select the format that best fits your needs. The simple *Lawn Watering Guide* (Fig. 1) format provides an estimate of water use over the previous 3 days for acceptable (i.e. parks & lawns) quality turf grown in the Phoenix area.

Phoenix Area Lawn Watering Guide March 9, 1998

.33"

**is needed on your ryegrass if you watered
3 days ago, unless it has rained.**

Fig. 1. Basic Lawn Watering Guide.

The second more detailed report format, known as *The Phoenix Area Turf Water Use Report* (Fig. 2), provides location-specific water use information for the past 1, 3 and 7 days for acceptable and high maintenance turfs (golf courses and sports fields). This report format also provides reference evapotranspiration (ET_o) and precipitation for the past 1, 3 and 7 days.

Select a Delivery Method

Lawn Watering Guides and Phoenix Area Turf Water Use Reports are available via the Internet, e-mail or automatic fax transfer. Select the delivery system that best suits your needs.

Phoenix Area Turf Water Use Report MARCH 9, 1998 Turf: Overseeded Ryegrass							
Water Use in Inches For Previous							
LOCATION	DAY		3 DAYS		7 DAYS		
	AC	HQ	AC	HQ	AC	HQ	
Phoenix Gr.	.12	.13	.32	.36	.74	.82	
Phoenix En.	.11	.12	.32	.36	.73	.81	
Buckeye	.12	.13	.32	.36	.73	.81	
Laveen	.10	.12	.34	.38	.73	.81	
Queen Ck.	.10	.11	.29	.32	.68	.75	
Litchfld Pk.	.12	.13	.36	.40	.82	.91	
Waddell	.11	.12	.33	.36	.74	.82	
Area Avg.	.11	.12	.33	.36	.74	.82	
AC: Acceptable Quality Turf HQ: High Quality Turf							
Reference ET(ET _o) & Precipitation (PT) For Previous							
LOCATION	DAY		3 DAYS		7 DAYS		
	ET _o	PT	ET _o	PT	ET _o	PT	
Phoenix Gr.	.18	.00	.50	.00	1.14	.05	
Phoenix En.	.17	.00	.50	.00	1.13	.07	
Scottsdale	.18	.00	.50	.00	1.13	.02	
Laveen	.16	.00	.53	.00	1.13	.09	
Queen Ck.	.15	.00	.44	.00	1.04	.15	
Litchfld Pk.	.18	.00	.55	.00	1.26	.07	
Waddell	.17	.00	.50	.00	1.13	.08	
Crop Coefficients							
Turf Type	AC	HQ	Period Of Use				
Bermudagrass	0.65	0.76	1 Apr. – 14 Oct.				
Ryegrass	0.65	0.72	15 Oct. – 31 Mar.				

Fig. 2. Example of The Phoenix Area Turf Water Use Report.

Internet Access

Internet access is provided through the Phoenix Area Turf Water Management Web Page (Fig. 3). Simply log on to the Internet via your Internet Service Provider and enter the following URL address:

<http://ag.arizona.edu/azmet/phxturf.html>

To view either report format, use the computer mouse to place the cursor over the appropriate labeled box and then click the mouse. Please note that the Phoenix Area Turf Water Management Web Page also provides access to additional information on weather, turf culture and irrigation management.

Phoenix Area Turf Water Management

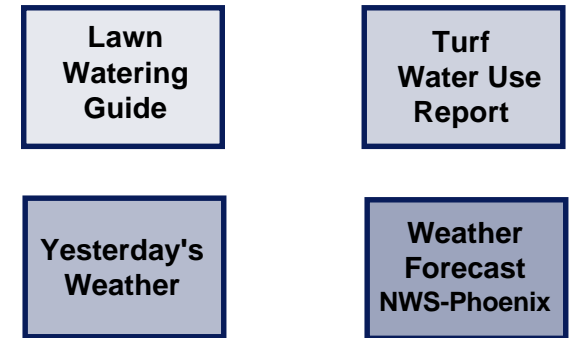


Fig. 3. The Phoenix Area Turf Water Management Web Page. Click on the appropriate box to access Lawn Watering Guides or Phoenix Area Turf Water Use Reports.

E-mail & Fax Delivery

Lawn Watering Guides and Phoenix Area Turf Water Use Reports will be delivered free of charge via e-mail or fax by contacting AZMET. To initiate service, simply send your name, address, employer/business affiliation, desired report format and e-mail address or fax number to AZMET. Please contact AZMET by e-mail, fax or mail using:

e-mail: azmet@ag.arizona.edu

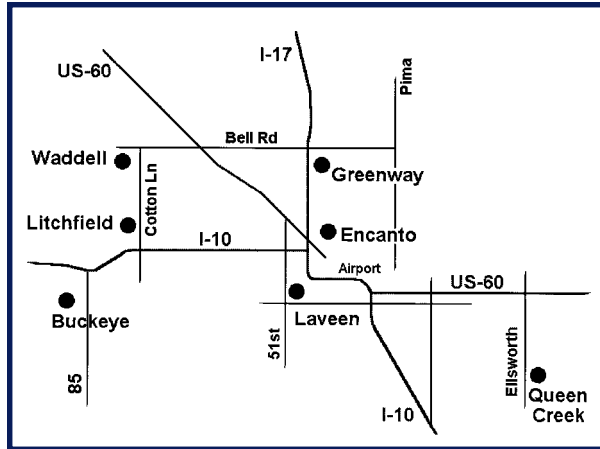
fax number: (520) 621-9796

regular mail: AZMET
Dept. Soil, Water & Envir. Sci.
429 Shantz Bldg. #38
University of Arizona
Tucson, AZ 85721

Background Information

Turf water use estimates are provided by the Arizona Meteorological Network (AZMET). AZMET operates automated weather stations in the Phoenix Area for the purpose of providing turf water management information. Water use estimates are developed by applying appropriate turf crop coefficients to daily values of reference evapotranspiration (ET_o). AZMET ET_o values are generated using a modified version of the Penman Equation.

Turf water use values provided by this service represent gross daily evapotranspiration (ET) rates for turf. The amount of irrigation required may be more or less than the ET indicated due to rainfall and/or irrigation system nonuniformity and efficiency.



PHOENIX AREA AZMET WEATHER STATIONS

Name	Location
Waddell	Cotton Ln. & Greenway Rd.
Litchfield Pk.	Cotton Ln. & Indian Sch. Rd.
Buckeye	Palo Verde & Broadway Rd.
Phx. Greenway	Cave Ck. Golf Course
Phx. Encanto	Encanto Golf Course
Laveen	South Mountain Gin
Queen Ck.	Queen Ck. High School

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, James A. Christenson, Director, Cooperative Extension, College of Agriculture, The University of Arizona.

The University of Arizona College of Agriculture is an equal opportunity employer authorized to provide research, educational information and other services only to individuals and institutions that function without regard to sex, race, religion, color, national origin, age, Vietnam Era Veteran's status, or disability.

This printed information was produced in accordance with a water conservation program which was either partially or entirely funded by the State of Arizona Department of Water Resources Conservation Assistance Fund.

PHOENIX AREA TURF WATER MANAGEMENT INFORMATION

PAUL W. BROWN
Extension Specialist, Biometeorology

BRUCE T. RUSSELL
Program Coordinator,
Arizona Meteorological Network

AZ1057
September 1998

College of Agriculture
The University of Arizona
Tucson, Arizona

