The Atlantic wire

NATIONAL

Portland Decides Not to Flush Urine-Tainted Reservoir Water

Danielle Wiener-Bronner | 56 Min Ago

Portland has backtracked on a decision to flush 38 million gallons of drinking water from a reservoir, made last month after security footage showed a teenager apparently urinating

MODEL EFFICIENT IRRIGATION AND LANDSCAPE DESIGN GUIDELINES

LAWN AND YARD CHECKLIST:

- EFFICIENT IRRIGATION UPGRADES
- PROPER INSTALLATION AND MAINTENANCE
- SEASONAL ADJUSTMENTS
- NATIVE AND DROUGHT TOLERANT PLANTS

IWAC
IDAHO WASHINGTON AQUIFER COLLABORATIVE

Irrigation Design Criteria
Distribution Uniformity

Sprinklers are efficient when the spray heads are matched, properly spaced and designed to spray head to head.
Below is an image of poor distribution uniformity. If an irrigation system is 50% efficient (common for most systems) it will take twice as much water to keep a lawn looking green and healthy.

LANDSCAPE DESIGN

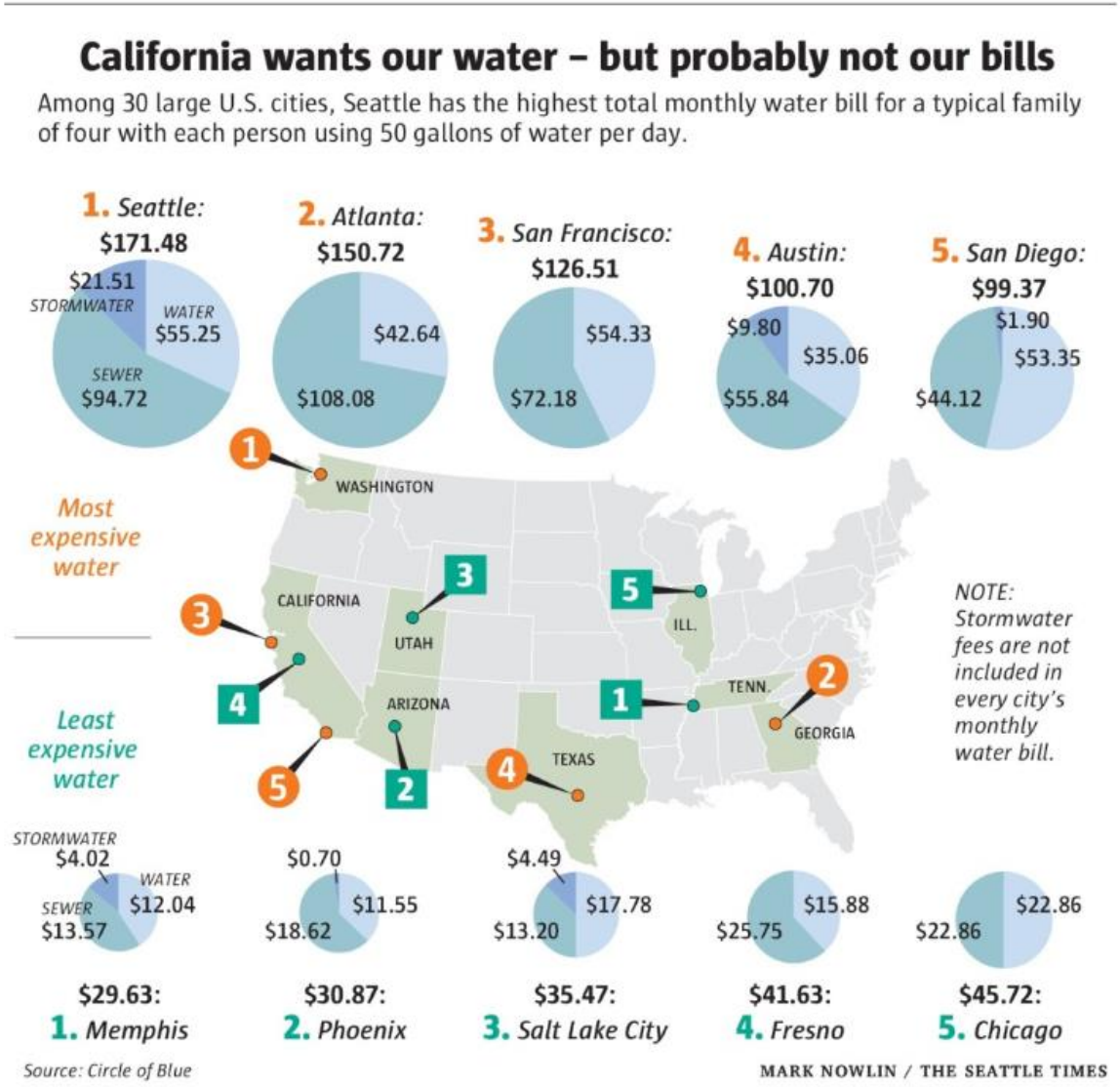
Lawns are thirsty and require a lot of water to grow in our climate and require time- consuming maintenance. Consider installing a water wise landscape to save water, time and money.

IDAHO WASHINGTON AQUIFER COLLABORATIVE

- DO YOU REALIZE THAT 50% TO 70% OF AVERAGE SUMMER USE IS ATTRIBUTED TO OUTDOOR USE SUCH AS MAINTENANCE, RECREATION, BUT MOSTLY IRRIGATION?
- HOW DOES THIS AFFECT YOUR BOTTOM LINE?

MODEL EFFICIENT IRRIGATION AND LANDSCAPE DESIGN GUIDELINES

Rain-soaked Seattle has nation's highest water bills



New Monthly Water Rates

Beginning April 1, 2019 and yearly thereafter

Residential	2018	2019	2020	2021	2022	2023
Block 1 (0-30,000 gallons)	$0.94	$0.95	$0.98	$1.01	$1.05	$1.09

(1 unit=1,000 gallons) 30,000 gallons = $29.40 + $9.09

City of Issaquah 2019 Water Rates

All Utilities Are Billed Bi-Monthly

1 ccf = 748 Gallons

Single Family Residential

Meter Size	Fixed Charge	Block One 0 - 4 ccf	Block Two 5 - 14 ccf	Block Three 15 - 30 ccf	Block Four 31 - 50 ccf	Block Five > 50 ccf
¾"	$31.66	$2.05	$4.86	$9.04	$14.73	$21.17

(1 unit=748 gallons) 30,000 gallons = $354.43 + $31.66

Turf: 20,000 Sq’ - Shrubs: 5,000 Sq’

1. Start by entering your landscape and water use information.
2. Choose a Hunter product calculator to see how much you can save.

These Water Savings Calculators were created as tools to demonstrate just how much water can be conserved when the most efficient Hunter innovations are put to use in any given landscape. To get started calculating your optimal water use, click the 'Water Use Information' button below.

Start Here: Water Use Information

Calculators

- Solar Sync
- MP Rotator
- MP Rotator Pressure Regulation
- Conventional Spray Nozzle Pressure Regulation
- Sprinkler Check Valve

This tool is designed to give users an estimation of the benefits associated with responsible water
All results are calculated on an annual basis

◂ Back

Water Use Information

Use this tool to see how much water your irrigation system uses, and what you could save by incorporating more efficient products. Start by entering your landscape area and then your water use information from your water bill.

Your peak season **monthly** water use is **141,790** gallons of water, which costs $**148**.

Maximum Summer High Temperature	**90°**	75°F	120°F
Square Feet of Grass Area	**20000**	0	20,000
Square Feet of Non-Grass Landscaped Area	**5000**	0	10,000
Cost Per Unit Of Water	**$1.05**	$0.01	$20
Billing Unit "CCF" and "HCF" are the same thing.	**/TG**	per CCF	per 1,000 gal.

Back | Show Results

Turf: 20,000 Sq’ - Shrubs: 5,000 Sq’

Water Use Information

Use this tool to see how much water your irrigation system uses, and what you could save by incorporating more efficient products. Start by entering your landscape area and then your water use information from your water bill.

Your peak season **monthly** water use is **114,123** gallons of water, which costs **$1,452**.

Maximum Summer High Temperature	**85°**	75°F	120°F
Square Feet of Grass Area	**20000**	0	20,000
Square Feet of Non-Grass Landscaped Area	**5000**	0	10,000
Cost Per Unit Of Water	**$9.52**	$0.01	$20
Billing Unit "CCF" and "HCF" are the same thing.	**/CCF**	per CCF	per 1,000 gal.

Back | Show Results

Use What You Got!

ICC2

HCC

I-CORE

ACC

ACC2

X-CORE

HC

PRO-HC

PRO-C

PRO-C HYDRAWISE

Your recommended watering schedule is below.

Print Email

Please keep in mind that these run times are based on your area's hottest month. You will need to adjust water usage as temperatures cool and heat up. You can either do this manually, through your seasonal adjustment feature on your controller (select models only) or through a weather sensor, such as the Solar Sync.

Seasonal Adjustment for September: 61% (What's this?)
Portland, OR · Prepared by daniel motylewski on September 3, 2013

Program A

Turfgrass

Days to Water: Monday, Thursday, and Saturday
Program Start Times: 9:00 pm, 9:45 pm, 10:30 pm

Station 1: Front Grass EDIT
12 minutes

Station 3: Back Grass EDIT
14 minutes

Station 5: Back Grass - Corner EDIT
14 minutes

Pro Options
View Door Card

Documentation
X-CORE Website
Owner's Manual (PDF)
Door Card (PDF)
Brochure (PDF)

Videos:
X-CORE Programming (1 of 2)
X-CORE Programming (2 of 2)
X-CORE Solar Sync Installation and

HUNTER INDUSTRIES
Built on Innovation

WATER-SAVING DEVICE

#111

WATER YOUR PLANTS DEEPLY BUT LESS FREQUENTLY TO ENCOURAGE DEEP ROOT GROWTH AND DROUGHT TOLERANCE.

There are a number of ways to save water, and they all start with you. To learn more visit wateruseitwisely.com

Sensors **OVERVIEW**

WATER-SAVING DEVICE

#102

APPLY WATER ONLY AS FAST AS THE SOIL CAN ABSORB IT.

There are a number of ways to save water, and they all start with you. To learn more visit wateruseitwisely.com

WATER USE IT WISELY

MAXIMUM PRECIPITATION RATES

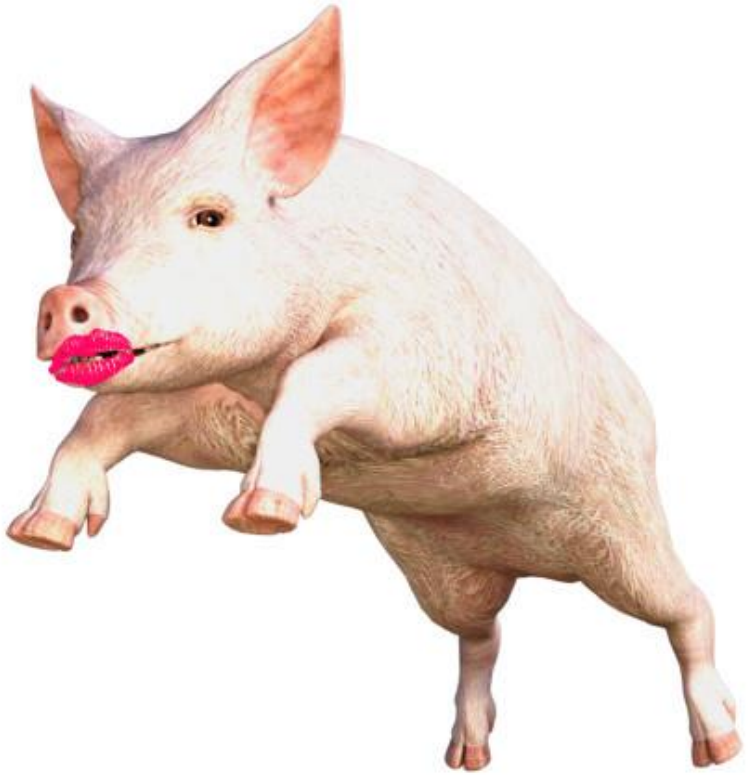
The maximum PR values listed are as suggested by the United States Department of Agriculture. The values are average and may vary with respect to actual soil condition and condition of ground cover.

SOIL TEXTURE	MAXIMUM PRECIPITATION RATES: INCHES PER HOUR							
	0 to 5% slope		5 to 8% slope		8 to 12% slope		12%+ slope	
	Cover	Bare	Cover	Bare	Cover	Bare	Cover	Bare
Course sandy soils	2.00	2.00	2.00	1.50	1.50	1.00	1.00	0.50
Course sandy soils over compact subsoils	.75	1.50	1.25	1.00	1.00	0.75	0.75	0.40
Light sandy loams uniform	75	1.00	1.25	0.80	1.00	0.60	0.75	0.40
Light sandy loams over compact subsoils	25	0.75	1.00	0.50	0.75	0.40	0.50	0.30
Uniform silt loams	00	0.50	0.80	0.40	0.60	0.30	0.40	0.20
Silt loams over compact subsoil	.60	0.30	0.50	0.25	0.40	0.15	0.30	0.10
Heavy clay or clay loam	0.20	0.15	0.15	0.10	0.12	0.08	0.10	0.06

MAXIMUM PRECIPITATION RATES

The maximum PR values listed are as suggested by the United States Department of Agriculture. The values are average and may vary with respect to actual soil condition and condition of ground cover.

SOIL TEXTURE	MAXIMUM PRECIPITATION RATES: INCHES PER HOUR							
	0 to 5% slope		5 to 8% slope		8 to 12% slope		12%+ slope	
	Cover	Bare	Cover	Bare	Cover	Bare	Cover	Bare
Course sandy soils	2.00	2.00	2.00	1.50	1.50	1.00	1.00	0.50
Course sandy soils over compact subsoils	1.75	1.50	1.25	1.00	1.00	0.75	0.75	0.40
Light sandy loams uniform	1.75	1.00	1.25	0.80	1.00	0.60	0.75	0.40
Light sandy loams over compact subsoils	1.25	0.75	1.00	0.50	0.75	0.40	0.50	0.30
Uniform silt loams	1.00	0.50	0.80	0.40	0.60	0.30	0.40	0.20
Silt loams over compact subsoil	0.60	0.30	0.50	0.25	0.40	0.15	0.30	0.10
Heavy clay or clay loam	0.20	0.15	0.15	0.10	0.12	0.08	0.10	0.06



Yup. Still A Pig.

NOZZLE COMPARISON CHART

A Nozzle for Every Occasion
From the water-saving MP Rotator, to standard sprays and side-stripped specialty nozzles, Hunter provides a solution you can trust for years on end.

	MP ROTATOR	MP ROTATOR SR	PRO ADJUS-TABLE NOZZLES	PRO-SPRAY FIXED ARC NOZZLES	SIDE STRIP	SHORT RADIUS	BUBBLERS
QUICK SPECS							
Nozzle Types	High Efficiency Rotator Nozzle	Short Radius High Efficiency Rotator Nozzle	Adjustable Spray	Fixed Spray	Side Strip	Specialty Nozzle	Specialty Nozzle
Radius (ft.)	8-35	6-12	4-17	5-17	9 x 18 / 5 x 15 / 5 x 30	2, 4, 6	1-1.5
Warranty	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years
FEATURES							
Arc	45-360	90-210	0-360	45-360	Rectangle	90 or 180	45-360
Precipitation Square	Approx. 0.40 in/hr	Approx. 0.8 in/hr	1.60-6.45 in/hr	1.53-2.08 in/hr	N/A	5.24-10.29 in/hr	N/A
Precipitation Triangle	Approx. 0.45 in/hr	Approx. 0.9 in/hr	1.84-2.18 in/hr	1.63-2.08 in/hr	N/A	6.03-12.23 in/hr	N/A

SLOW the FLOW

Hunter
The Irrigation Innovators

RAIN BIRD

TORO. Count on it.

HUNTER INDUSTRIES
Built on Innovation

Hunter

Your recommended watering schedule is below.

Print Email

Please keep in mind that these run times are based on your area's hottest month. You will need to adjust water usage as temperatures cool and heat up. You can either do this manually, through your seasonal adjustment feature on your controller (select models only) or through a weather sensor, such as the Solar Sync.

Seasonal Adjustment for September: 61% (What's this?)
Portland, OR · Prepared by daniel motylewski on September 3, 2013

Program A

Turfgrass

Days to Water: Monday, Thursday, and Saturday
Program Start Times: 9:00 pm, 9:45 pm, 10:30 pm

Station 1: Front Grass EDIT
12 minutes

Station 3: Back Grass EDIT
14 minutes

Station 5: Back Grass - Corner EDIT
14 minutes

Pro Options
View Door Card

Documentation
X-CORE Website
Owner's Manual (PDF)
Door Card (PDF)
Brochure (PDF)

Videos:
X-CORE Programming (1 of 2)
X-CORE Programming (2 of 2)
X-CORE Solar Sync Installation and

HUNTER INDUSTRIES
Built on Innovation

Narrow Planting Bed Next to a Structure: Sparse Planting

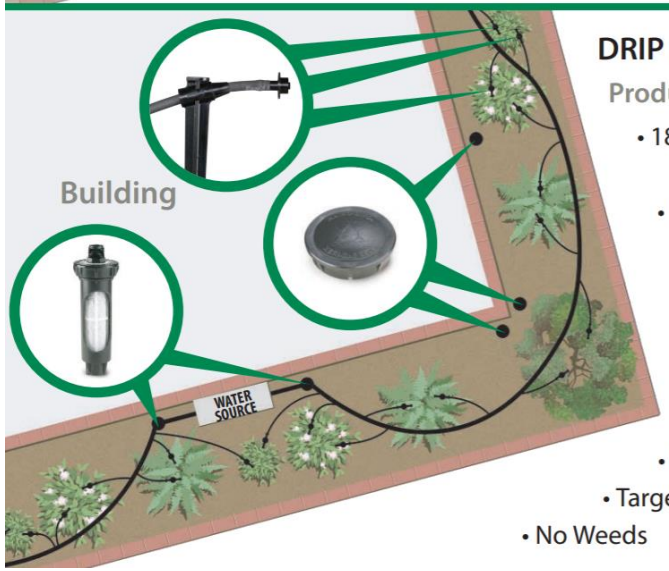
CURRENT APPLICATION

Products

Sprays

Issues

- Over Spray
- Over Water
- Weed Growth



DRIP SOLUTION

Products

- 1800-Retro
  -Cap)
- Blank Tubing
  Emitters
- ¼" Tubing
- ¼" Tubing Stake

Advantages

- Up to 60% Water Savings
- No Over Spray
- Target Watering
- No Weeds

Narrow Planting Bed Next to a Structure: Dense Planting

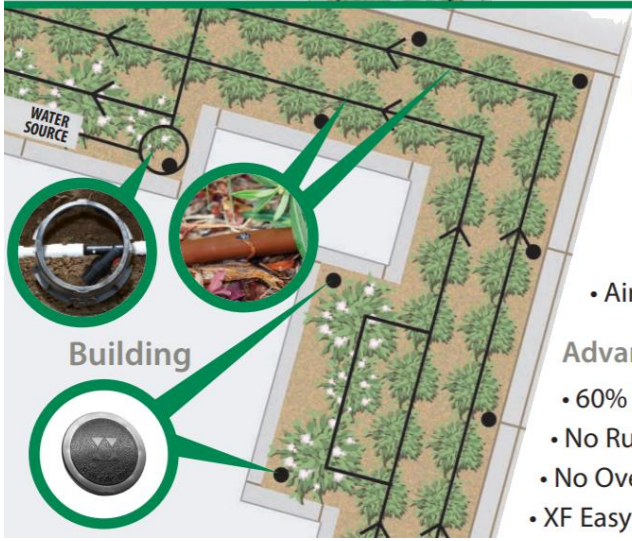
CURRENT APPLICATION

Products

Sprays

Issues

- Over Spray Damage to Structure, Fence, Windows
- Water Loss to Wind
- Run Off Liability in High Wind Traffic Areas



DRIP SOLUTION

Products

- PRF
  - Cap
  - Tubing
  - Fittings
- Air Relief Valve Kit

Advantages

- 60% Water Savings Due to Zero Wind Loss
- No Run Off
- No Over Spray Damage
- XF Easy to Install

Your recommended watering schedule is below.

Print Email

Please keep in mind that these run times are based on your area's hottest month. You will need to adjust water usage as temperatures cool and heat up. You can either do this manually, through your seasonal adjustment feature on your controller (select models only) or through a weather sensor, such as the Solar Sync.

Seasonal Adjustment for September: 61% (What's this?)
Portland, OR · Prepared by daniel motylewski on September 3, 2013

Program A

Turfgrass

Days to Water: Monday, Thursday, and Saturday
Program Start Times: 9:00 pm, 9:45 pm, 10:30 pm

Station 1: Front Grass EDIT
12 minutes

Station 3: Back Grass EDIT
14 minutes

Station 5: Back Grass - Corner EDIT
14 minutes

Pro Options
View Door Card

Documentation
X-CORE Website
Owner's Manual (PDF)
Door Card (PDF)
Brochure (PDF)

Videos:
X-CORE Programming (1 of 2)
X-CORE Programming (2 of 2)
X-CORE Solar Sync Installation and

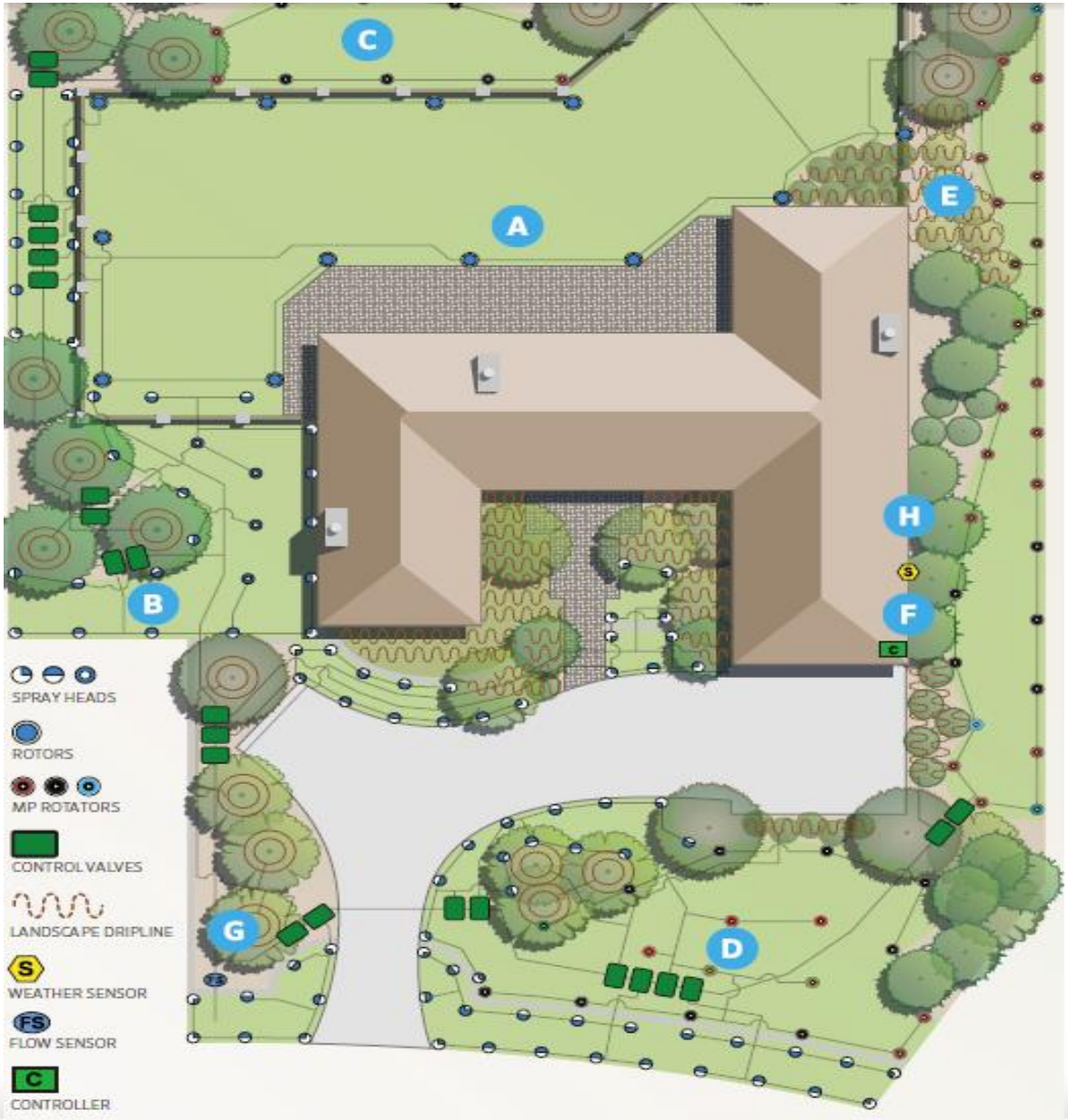
HUNTER INDUSTRIES
Built on Innovation

Daniel.Motylewski@HunterIndustries.com

SLOW the FLOW

Questions?

Hunter®


C
A
E
H
B
F
G
D
SPRAY HEADS
ROTORS
MP ROTATORS
CONTROL VALVES
LANDSCAPE DRIPLINE
WEATHER SENSOR
FLOW SENSOR
CONTROLLER

MP Rotator

Rotating Streams Make Every Drop Count

Rather than simply "spray" water, MP Rotators emit multiple streams of water at a slow, steady rate. This revolutionary water delivery method can reduce water use by 30% or more. To see the difference MP Rotators can make if you upgrade your existing spray head system, use the slider to enter your information.

Annually, MP Rotators Could Save You **236,018** gallons of water (**31%** of what you're using now), and **$1359**.

Percentage of Grass Area changing from sprays to MP Rotators **100%** 0 100

Back Show Results

Replace these…

…With these

WATER-SAVING DEVICE

#112

USE SPRINKLERS THAT DELIVER BIG DROPS OF WATER CLOSE TO THE GROUND. SMALLER DROPS AND MIST OFTEN EVAPORATE BEFORE HITTING THE GROUND.

There are a number of ways to save water, and they all start with you. To learn more visit wateruseitwisely.com


C
A
E
H
B
F
G
D
SPRAY HEADS
ROTORS
MP ROTATORS
CONTROL VALVES
LANDSCAPE DRIPLINE
WEATHER SENSOR
FLOW SENSOR
CONTROLLER

✓	15 Series (15 ft. radius)	›
	17 Series (17 ft. radius)	›
	Strip Pattern Nozzles	›
	Short Radius Nozzles	›

Current Operating Pressure (PSI)	55	30	75
Average Watering Time (minutes per day – peak season)	15	1	60
Average Watering Days (per week – peak season)	3	1	7
Average Watering Weeks (per year)	20	1	52

Back | Show Results

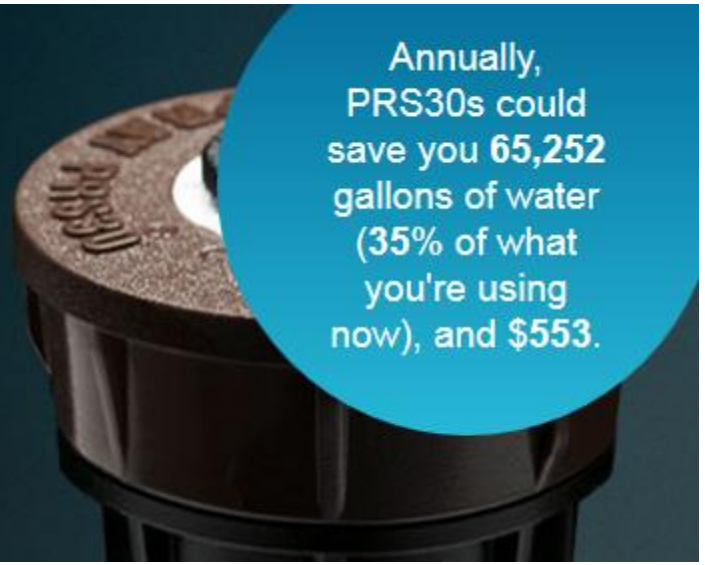
This tool is designed to give users an estimation of the benefits associated with responsible water use. A
All results are calculated on an annual basis.

Hunter

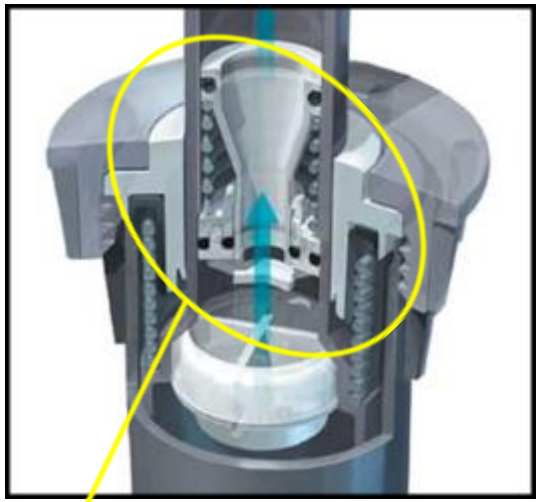
Conventional Spray Nozzle Pressure Regulation

Regulating Water Pressure For Spray Applications

An important element of efficient irrigation is regulating water pressure. To ensure optimal pressure in spray applications, Hunter offers the PRS30. The PRS30 uses the Pro-Spray body with a built-in 30 PSI regulator to ensure spray nozzles operate at optimum pressure. To see how the PRS30 can upgrade your existing system, enter your information in the fields below.



Annually, PRS30s could save you **65,252** gallons of water (**35%** of what you're using now), and **$553**.



Pressure Regulation At The Head

WATER-SAVING DEVICE

#115

REMEMBER TO PERIODICALLY CHECK YOUR SPRINKLER SYSTEM VALVES FOR LEAKS, AND TO KEEP SPRINKLER HEADS IN GOOD SHAPE.

There are a number of ways to save water, and they all start with you. To learn more visit [illegible]

Outdoors:

- An irrigation system should be checked each spring before use to make sure it was not damaged by frost or freezing.
- An irrigation system that has a leak 1/32nd of an inch in diameter (about the thickness of a dime) can waste about 6,300 gallons of water per month.

Drain Check Valve (CV)

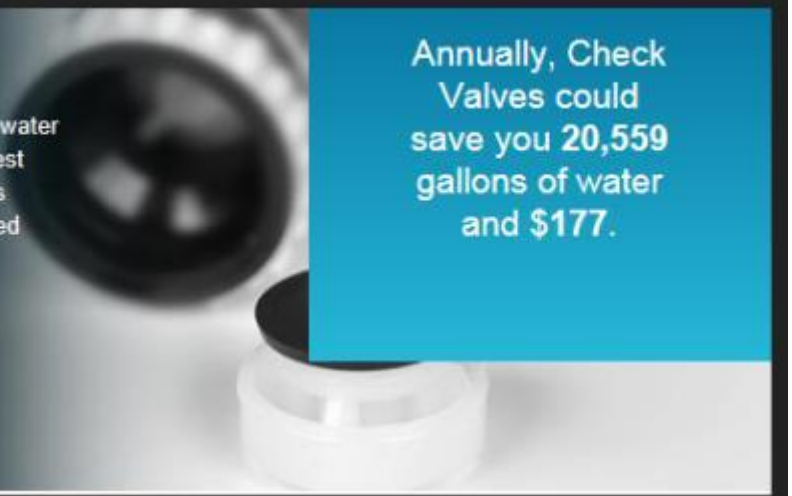
Available either factory-installed or field-installed

- Factory-installed: come with check valve ID on body cap
- Field-installed: snap into riser

Sprinkler Check Valve

Drain Check Valves in sprinklers are a simple and economical way to guard against water draining from the piping system after sprinklers irrigate. Water draining from the lowest heads in a system each time it is operated, can add up over time. Most Hunter rotors feature Check Valves, and spray heads feature them as either factory or field-installed options.

Fill out your information below to see how Check Valves can impact your water use.



Annually, Check Valves could save you **20,559** gallons of water and **$177**.

Start Times	**2**	1 — 8
Average Watering Days (per week – peak season)	**3**	1 — 7
Average Watering Weeks (per year)	**20**	1 — 52
Landscape Slope		Flat (0-2%) | Gentle (2-5%) | **Moderate (5-10%)** | Steep (>10%)

WATER-SAVING DEVICE

#99

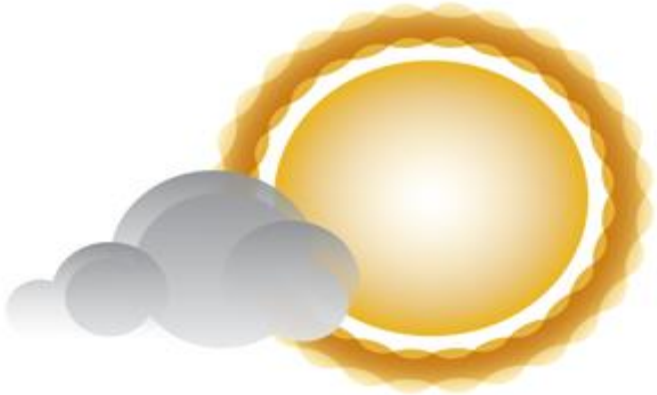
TIMING IS EVERYTHING WHEN IT COMES TO IRRIGATION. LEARN HOW TO SET YOUR CONTROLLER PROPERLY.

There are a number of ways to save water, and they all start with you. To learn more visit watersaveitwisely.com


ACC
Real Time Flow Monitoring

Hunter's Run Time Calculator

Available 24 hours a day, 7 days a week. It's easy and best of all, it's free.

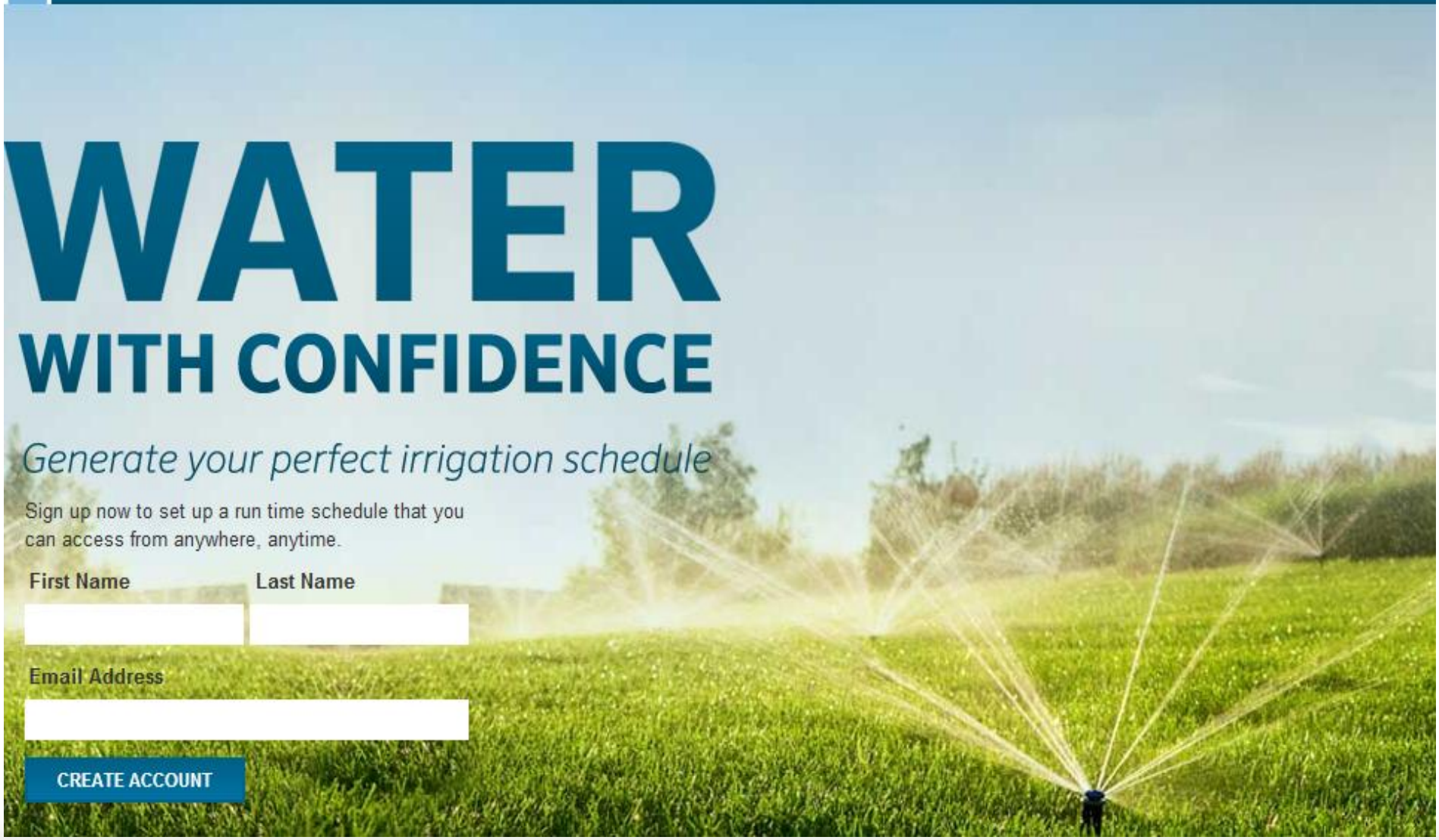


Water With Confidence

In order to get the most out of your irrigation system, you need to have your controller programmed with the correct run times for each of your zones. This calculator can automatically generate an irrigation schedule for your landscape and help protect you from wasting water. Get started today >>

Hunter®

RUN TIME CALCULATOR



WATER
WITH CONFIDENCE

Generate your perfect irrigation schedule

Sign up now to set up a run time schedule that you can access from anywhere, anytime.

First Name **Last Name**

Email Address

CREATE ACCOUNT

WATER-SAVING DEVICE

#106

ADJUST YOUR WATERING SCHEDULE EACH MONTH TO MATCH SEASONAL WEATHER CONDITIONS AND LANDSCAPE REQUIREMENTS.

There are a number of ways to save water, and they all start with you. To learn more visit wateruseitwisely.com

WATER USE IT WISELY.

WATER-SAVING DEVICE

#100

EPA WaterSense

LOOK FOR WATERSENSE® LABELED IRRIGATION CONTROLLERS.

There are a number of ways to save water, and they all start with you. To learn more visit wateruseitwisely.com

WATER USE IT WISELY

HUNTER INDUSTRIES
Built on Innovation

Hunter®

Hunter
The Irrigation Innovators

+

EPA WaterSense

= SMART

RAIN BIRD

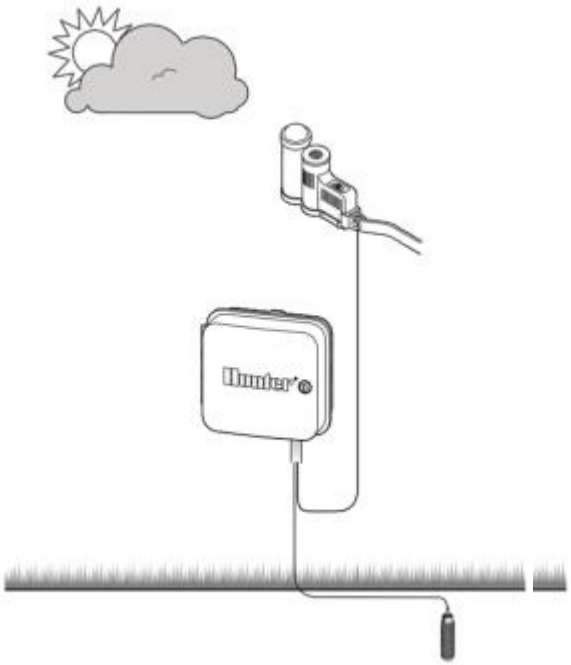
WM Weathermatic

Irritrol SYSTEMS

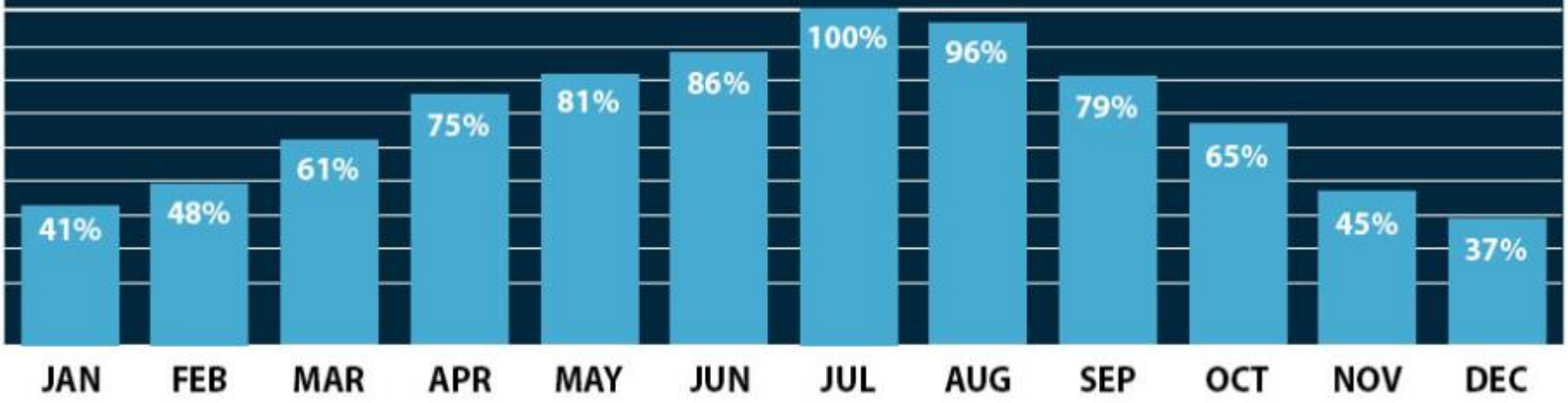
TORO. Count on it.

Real-Time Sensing & Remote Control

- 3 Sensor Inputs to Monitor Flow, Weather and Soil Moisture … No Computers Needed!
- SmartPort® Input for Remote Control Use
-



CALCULATES (ET) EVAPOTRANSPIRATION ADJUSTS YOUR CONTROLLER'S RUN TIME

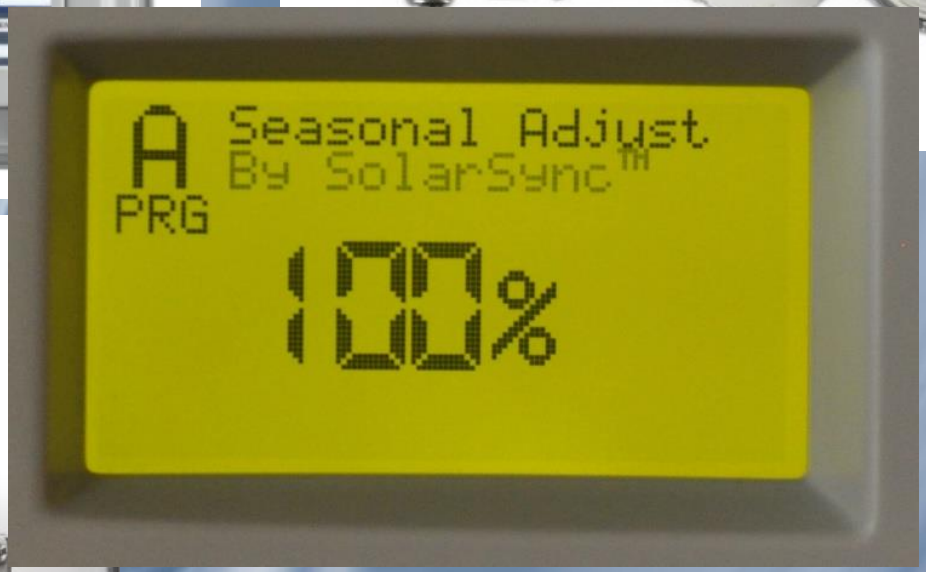


Water Budget, Seasonal Adjust or Percent Adjust: This is a very convenient feature that allows you to change your watering times by a percentage across all zones.Set your controller with peak watering schedules and use the percent adjust feature to decrease and increase watering run times as the weather changes.Plants need different amounts of water during the irrigation season.The longer the days the more water a plant will need.As the days grow shorter, a plant's need for water decreases.Visit http://iwms.org/seattle_area.asp to sign up for the Seattle area Watering Index email service to receive the real time percentage.

HUNTER INDUSTRIES
Built on Innovation

Hunter®

Any Hunter Controller with SOLAR SYNC



Hunter®

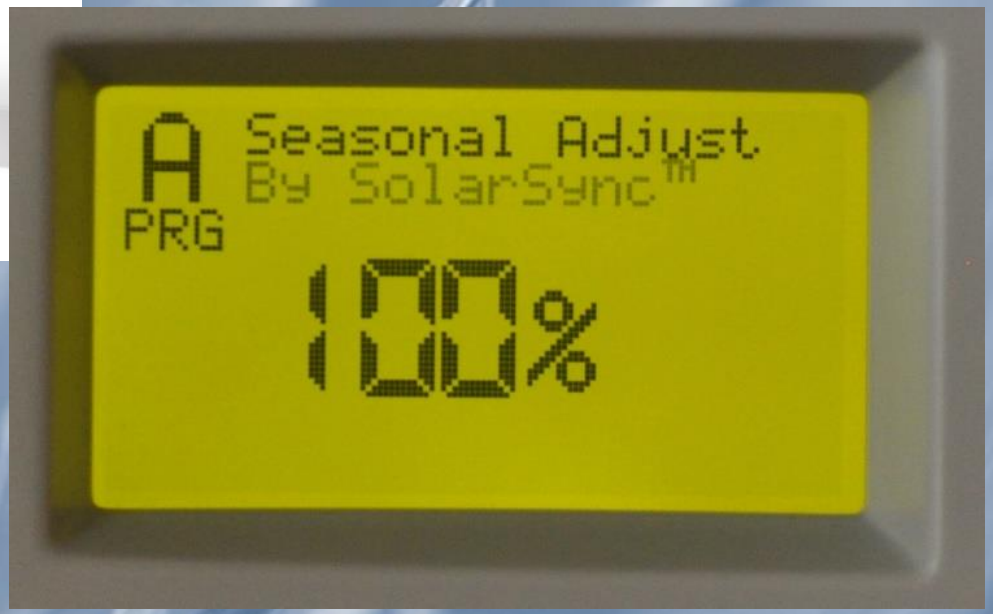
Late Spring Run-times

Hunter®

Early Summer Run-times

Hunter®

Peak Week Run-times
(End of July, First of August)



Hunter®

Late Summer Run-times

Hunter®

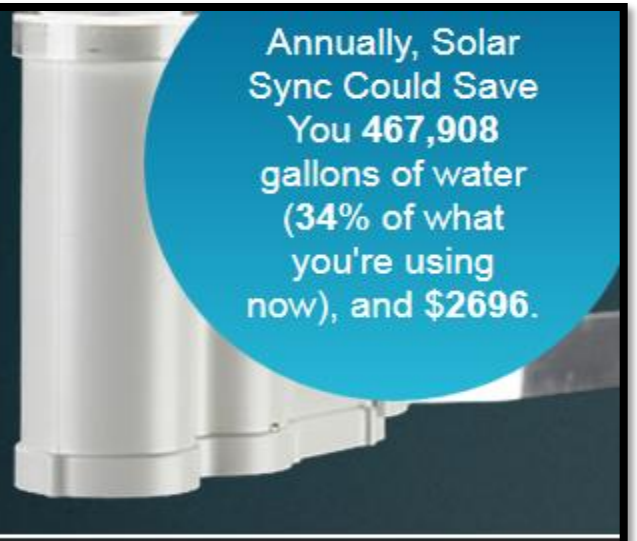
Early Fall Run-times

Hunter®

Solar Sync

Automatically Adjusting for Seasonal Changes

The Solar Sync is an advanced weather sensor that adjusts controller run times based on daily weather conditions and greatly enhances system efficiency. To see just how much of an impact the Solar Sync will have on your system, select the months your landscape requires watering on the calendar.

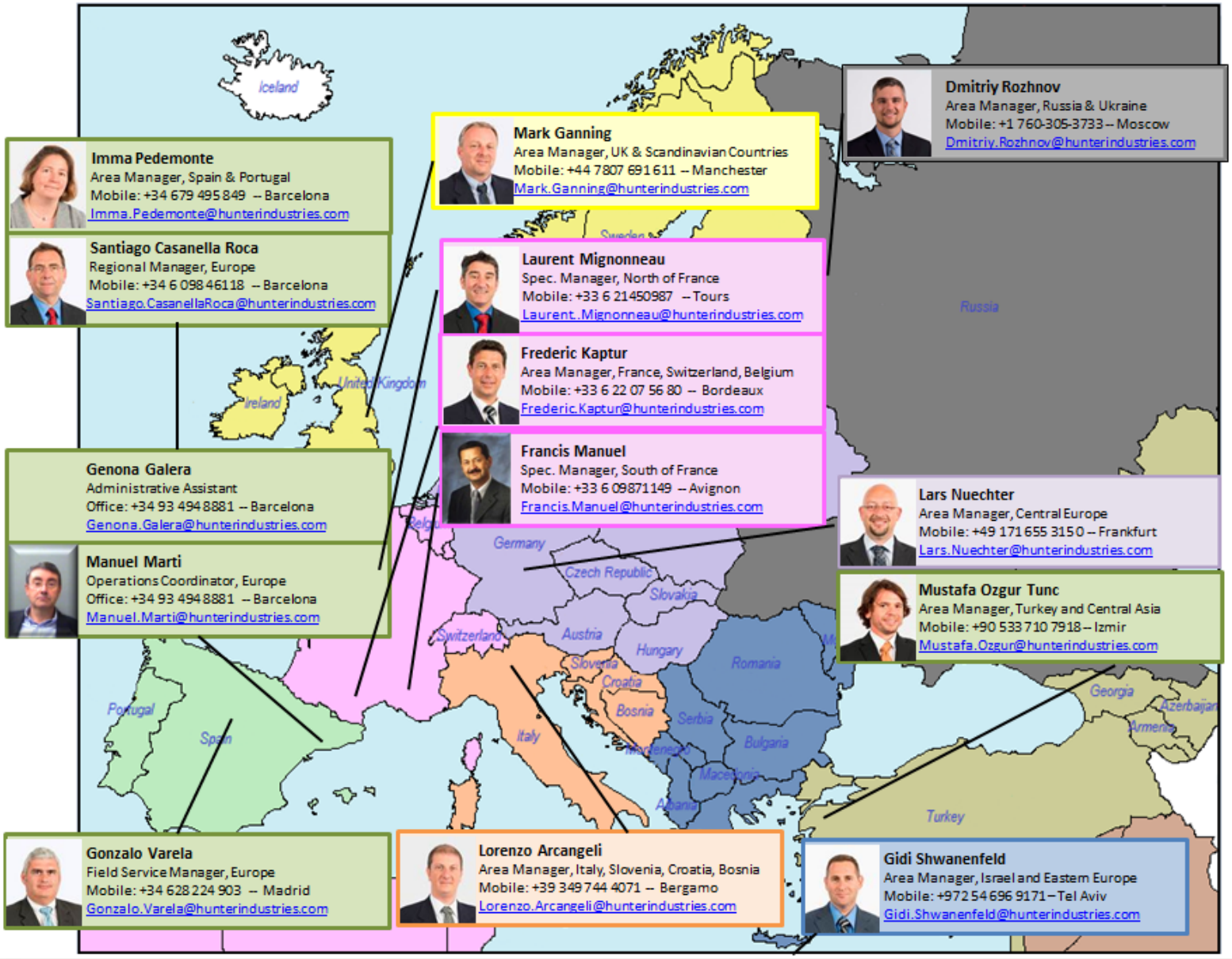


January | February | March | April

May | June | July | August

September | October | November | December

Back | Show Results



Imma Pedemonte
Area Manager, Spain & Portugal
Mobile: +34 679 495 849 -- Barcelona
Imma.Pedemonte@hunterindustries.com

Santiago Casanella Roca
Regional Manager, Europe
Mobile: +34 6 098 46118 -- Barcelona
Santiago.CasanellaRoca@hunterindustries.com

Genona Galera
Administrative Assistant
Office: +34 93 494 8881 -- Barcelona
Genona.Galera@hunterindustries.com

Manuel Marti
Operations Coordinator, Europe
Office: +34 93 494 8881 -- Barcelona
Manuel.Marti@hunterindustries.com

Gonzalo Varela
Field Service Manager, Europe
Mobile: +34 628 224 903 -- Madrid
Gonzalo.Varela@hunterindustries.com

Mark Ganning
Area Manager, UK & Scandinavian Countries
Mobile: +44 7807 691 611 -- Manchester
Mark.Ganning@hunterindustries.com

Laurent Mignonneau
Spec. Manager, North of France
Mobile: +33 6 21450987 -- Tours
Laurent..Mignonneau@hunterindustries.com

Frederic Kaptur
Area Manager, France, Switzerland, Belgium
Mobile: +33 6 22 07 56 80 -- Bordeaux
Frederic.Kaptur@hunterindustries.com

Francis Manuel
Spec. Manager, South of France
Mobile: +33 6 09871149 -- Avignon
Francis.Manuel@hunterindustries.com

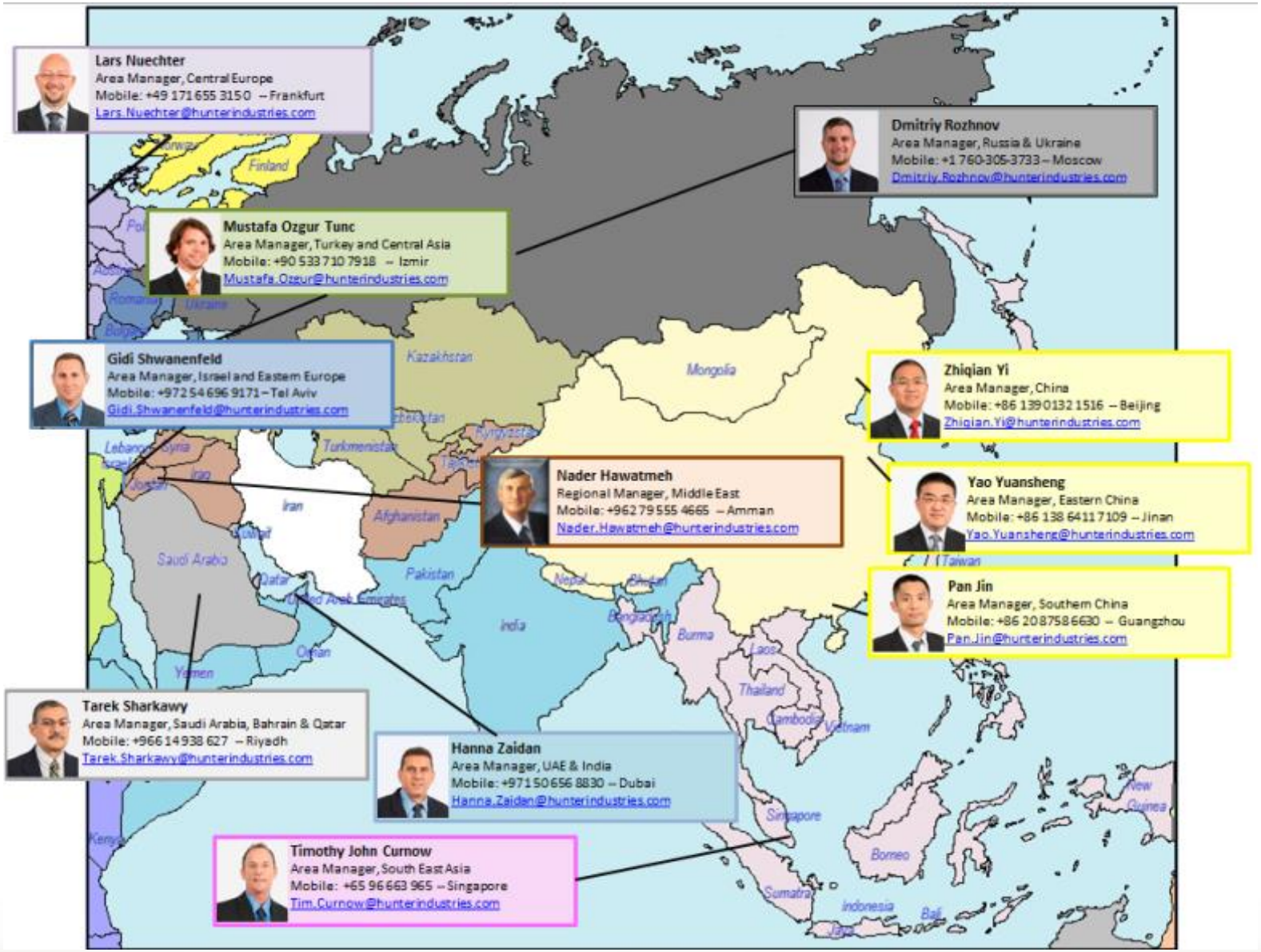
Lorenzo Arcangeli
Area Manager, Italy, Slovenia, Croatia, Bosnia
Mobile: +39 349 744 4071 -- Bergamo
Lorenzo.Arcangeli@hunterindustries.com

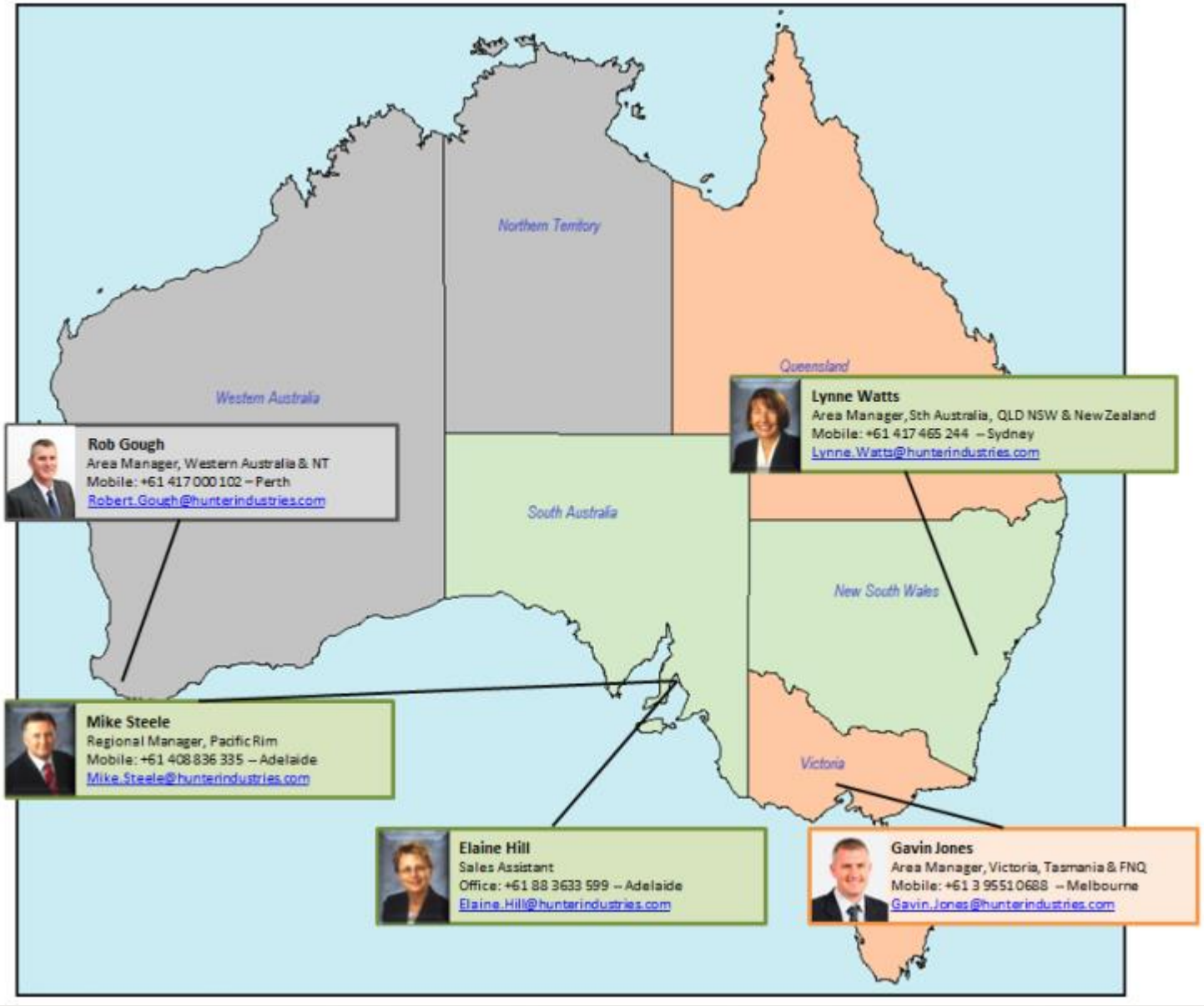
Dmitriy Rozhnov
Area Manager, Russia & Ukraine
Mobile: +1 760-305-3733 -- Moscow
Dmitriy.Rozhnov@hunterindustries.com

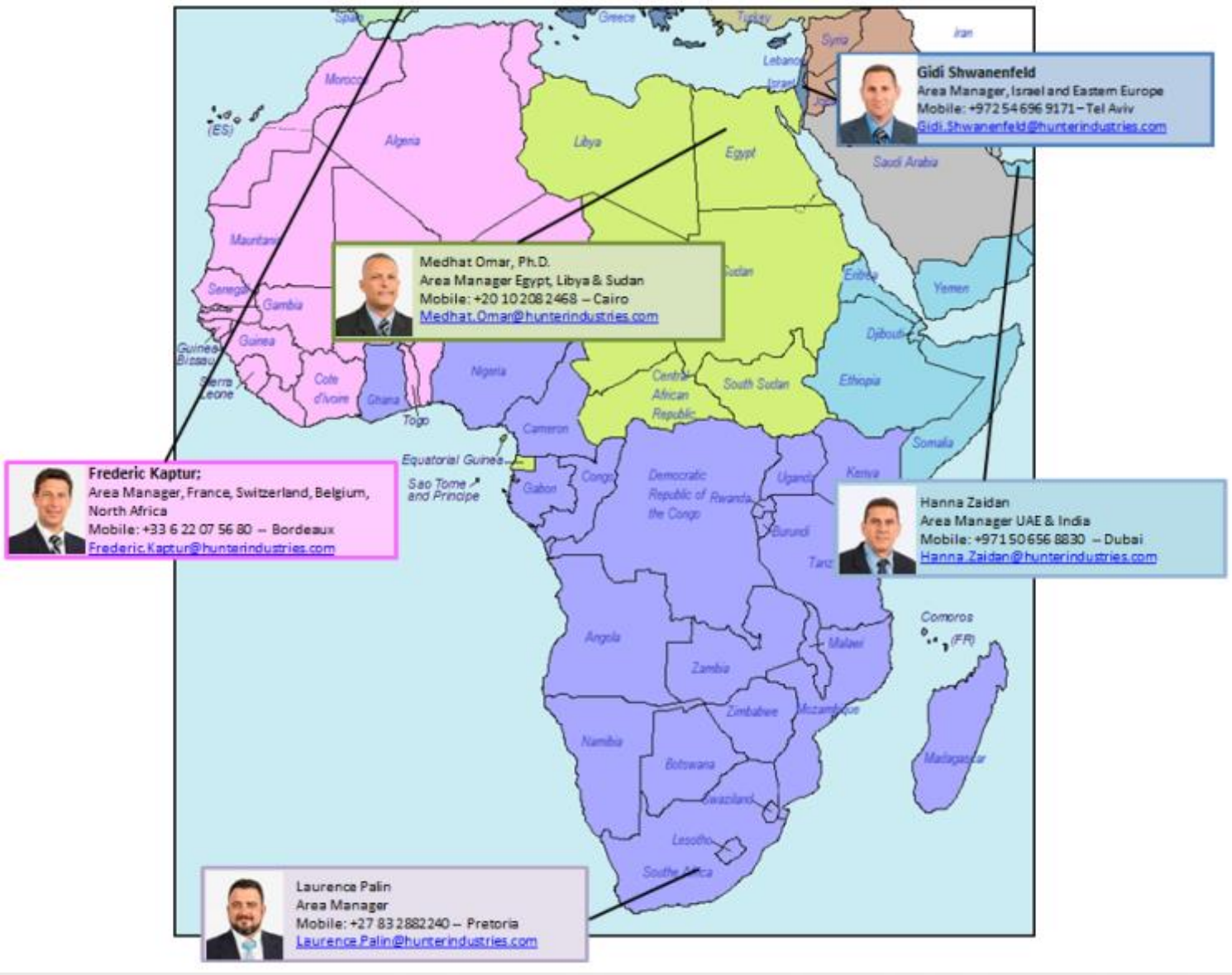
Lars Nuechter
Area Manager, Central Europe
Mobile: +49 171 655 3150 -- Frankfurt
Lars.Nuechter@hunterindustries.com

Mustafa Ozgur Tunc
Area Manager, Turkey and Central Asia
Mobile: +90 533 710 7918 -- Izmir
Mustafa.Ozgur@hunterindustries.com

Gidi Shwanenfeld
Area Manager, Israel and Eastern Europe
Mobile: +972 54 696 9171 -- Tel Aviv
Gidi.Shwanenfeld@hunterindustries.com


Lars Nuechter
Area Manager, Central Europe
Mobile: +49 171 655 3150 – Frankfurt
Lars.Nuechter@hunterindustries.com
Dmitriy Rozhnov
Area Manager, Russia & Ukraine
Mobile: +1 760-305-3733 – Moscow
Dmitriy.Rozhnov@hunterindustries.com
Mustafa Ozgur Tunc
Area Manager, Turkey and Central Asia
Mobile: +90 533 710 7918 – Izmir
Mustafa.Ozgur@hunterindustries.com
Gidi Shwanenfeld
Area Manager, Israel and Eastern Europe
Mobile: +972 54 696 9171 – Tel Aviv
Gidi.Shwanenfeld@hunterindustries.com
Zhiqian Yi
Area Manager, China
Mobile: +86 13901321516 – Beijing
Zhiqian.Yi@hunterindustries.com
Nader Hawatmeh
Regional Manager, Middle East
Mobile: +962 79 555 4665 – Amman
Nader.Hawatmeh@hunterindustries.com
Yao Yuansheng
Area Manager, Eastern China
Mobile: +86 138 6411 7109 – Jinan
Yao.Yuansheng@hunterindustries.com
Pan Jin
Area Manager, Southern China
Mobile: +86 20 8758 6630 – Guangzhou
Pan.Jin@hunterindustries.com
Tarek Sharkawy
Area Manager, Saudi Arabia, Bahrain & Qatar
Mobile: +966 14 938 627 – Riyadh
Tarek.Sharkawy@hunterindustries.com
Hanna Zaidan
Area Manager, UAE & India
Mobile: +971 50 656 8830 – Dubai
Hanna.Zaidan@hunterindustries.com
Timothy John Curnow
Area Manager, South East Asia
Mobile: +65 96 663 965 – Singapore
Tim.Curnow@hunterindustries.com
Finland
Kazakhstan
Mongolia
Turkmenistan
Iran
Afghanistan
Saudi Arabia
Pakistan
India
Burma
Thailand
Laos
Vietnam
Singapore
Borneo
Sumatra
Indonesia
Taiwan


Northern Territory
Western Australia
Queensland
South Australia
New South Wales
Victoria
Rob Gough
Area Manager, Western Australia & NT
Mobile: +61 417 000 102 – Perth
Robert.Gough@hunterindustries.com
Lynne Watts
Area Manager, Sth Australia, QLD NSW & New Zealand
Mobile: +61 417 465 244 – Sydney
Lynne.Watts@hunterindustries.com
Mike Steele
Regional Manager, Pacific Rim
Mobile: +61 408 836 335 – Adelaide
Mike.Steele@hunterindustries.com
Elaine Hill
Sales Assistant
Office: +61 88 3633 599 – Adelaide
Elaine.Hill@hunterindustries.com
Gavin Jones
Area Manager, Victoria, Tasmania & FNQ
Mobile: +61 3 9551 0688 – Melbourne
Gavin.Jones@hunterindustries.com


Greece
Turkey
Syria
Iran
Lebanon
Israel
Jordan
Saudi Arabia
Morocco
(ES)
Algeria
Libya
Egypt
Mauritania
Senegal
Gambia
Guinea
Guinea-Bissau
Sierra Leone
Cote d'Ivoire
Ghana
Togo
Nigeria
Cameron
Sudan
Eritrea
Yemen
Djibouti
Ethiopia
Central African Republic
South Sudan
Somalia
Equatorial Guinea
Sao Tome and Principe
Gabon
Congo
Democratic Republic of the Congo
Rwanda
Uganda
Kenya
Burundi
Tanz
Angola
Zambia
Malawi
Zimbabwe
Mozambique
Namibia
Botswana
Swaziland
Lesotho
South Africa
Comoros
(FR)
Madagascar
Gidi Shwanenfeld
Area Manager, Israel and Eastern Europe
Mobile: +972 54 696 9171 – Tel Aviv
Gidi.Shwanenfeld@hunterindustries.com
Medhat Omar, Ph.D.
Area Manager Egypt, Libya & Sudan
Mobile: +20 10 208 2468 – Cairo
Medhat.Omar@hunterindustries.com
Frederic Kaptur:
Area Manager, France, Switzerland, Belgium, North Africa
Mobile: +33 6 22 07 56 80 – Bordeaux
Frederic.Kaptur@hunterindustries.com
Hanna Zaidan
Area Manager UAE & India
Mobile: +971 50 656 8830 – Dubai
Hanna.Zaidan@hunterindustries.com
Laurence Palin
Area Manager
Mobile: +27 83 282 240 – Pretoria
Laurence.Palin@hunterindustries.com

Rafael Rodriguez
Area Manager, Mexico
Mobile: +52 461 167 4278 – Celaya
Rafael.Rodriguez@hunterindustries.com

Antonio Narino
Regional Manager, Latin America
Mobile: +1 3105005444 – San Diego
Antonio.Narino@hunterindustries.com

Leonardo Pace
Area Manager, Brazil
Mobile: +55 19 9451 0110 – Campinas
Leonardo.Pace@hunterindustries.com

HUNTER INDUSTRIES
Built on Innovation

Hunter®

Environmental Harvesting / Sustainable Design
Hunter Industries, San Marcos, California

SUSTAINABLE DESIGN

Hunter Industries a premier manufacturer of high quality irrigation systems demonstrates their commitment to the environment by incorporating many cutting edge technologies in their new 139,270 square foot office and warehouse building. The LEED registered, SCA designed, building incorporates both solar and daylight harvesting techniques on a massive scale for the largest private employer in San Marcos, CA.

Two independent photovoltaic (pv) systems generating a total of 180-280 kilowatts (kw) of power will be located on the building's roof.

LEED

LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN

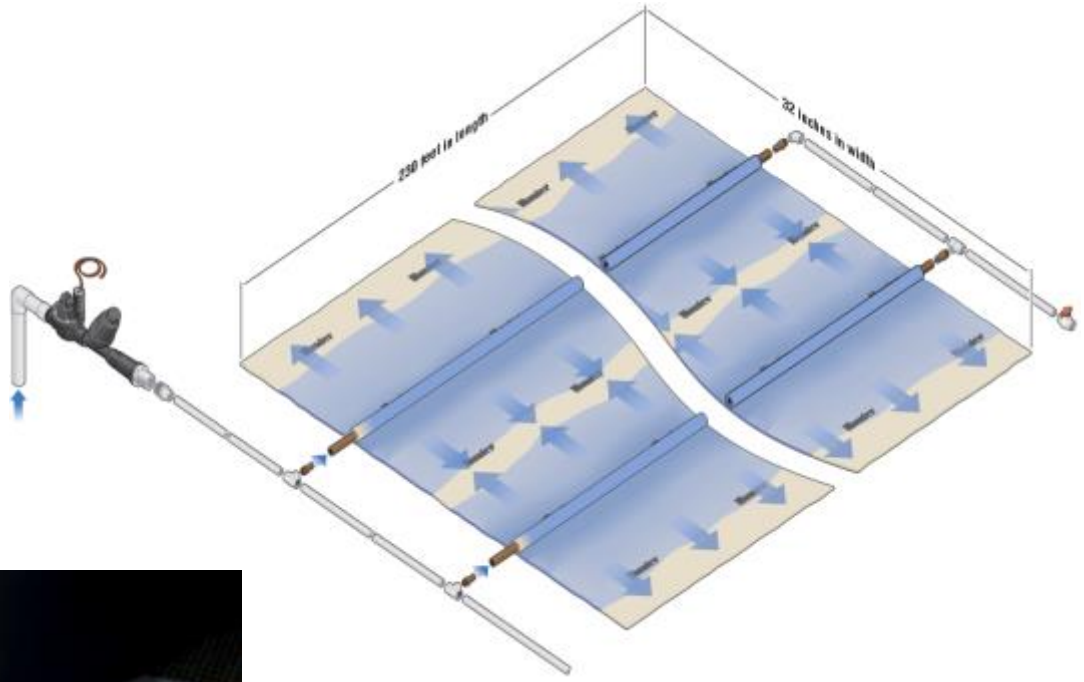
The Leadership in Energy and Environmental Design (LEED) Green Building Rating System is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.

Leveraging the sun to power our business

Our new solar shade structure powers 35% of the LEED Silver Drip and Sprays Manufacturing facility. The panels also power 4 electric vehicle charging stations available to employees.

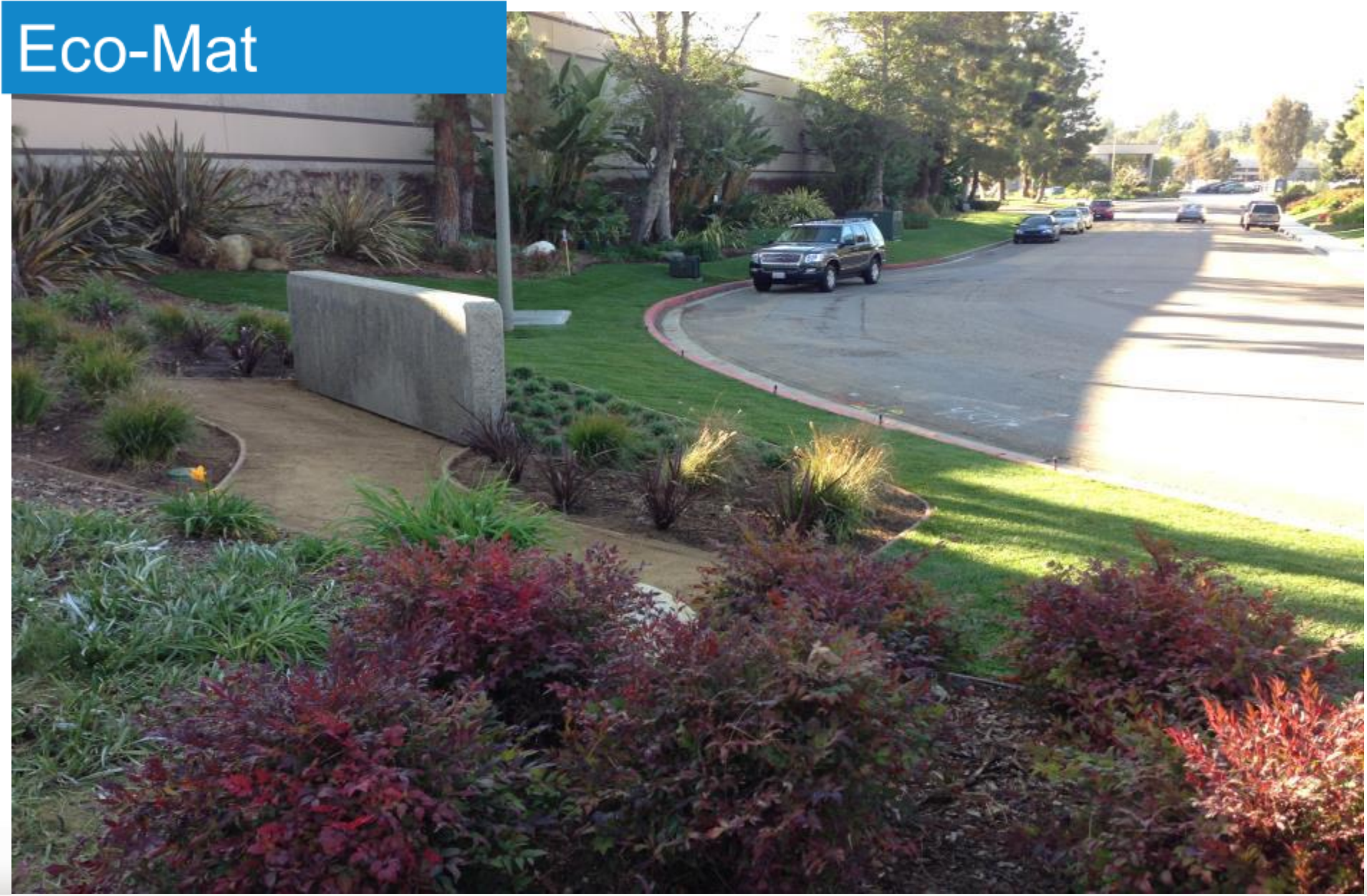
Eco-Mat

Eco-Mat



- 32” wide x 230’ roll
- 613 sq. ft. of coverage/roll
- Connect just like regular PLD
  - Header/Exhaust lines
- 17mm
- All Hunter Drip Products are made in CA, USA

Eco-Mat



- Narrow or irregularly shaped areas, including turf, less than eight (8) feet in width in any direction shall be irrigated with subsurface irrigation

Water Usage Benefits

- No water loss due to wind
- Minimal water lost through evaporation
- Almost 100% even water distribution
- No run-off
- Ability to water any time of day
- No overspray on hardscape