



# Landscape Workshop for Landscape Irrigation and Managers

Juan Tejeda, Water Conservation Specialist

Landscape Workshop  
May 2016



Welcome!

# Welcome!



- Good Morning!
- Please make sure you register and pick up your name tag
- Please make sure you paid for parking before starting
- Facilities are at the south end of building or downstairs
- Emergency Exit - lobby entrance, side entrance and behind back drop

# Presented by:



- CA Center for Urban Horticulture- David Fujino, Ph.D.
- UC Cooperative Extension – Loren Oki, Ph.D.
- CA Department of Water Resources – Julie Saare-Edmonds
- City of Modesto – Utilities & Parks Department
- City of Turlock – Toni Cordell
- City of Ceres – Loretta Webb
- City of Oakdale – Rolando Avila
- City of Manteca – Anatasia Deviaux

# Presented by:



- Ewing irrigation Products – Jim Borneman and staff
- CA Landscape Association – David Silva
- Rain Bird – Curt Cleary (Thank you! breakfast and refreshments)
- HUNTER – Sam Perez
- Architectural Solutions – Andrew Bolt

# Agenda



A WORKSHOP FOR LANDSCAPE IRRIGATION MANAGERS

## NOT JUST A DROP IN THE BUCKET

LANDSCAPE WATER SAVING IRRIGATION STRATEGIES

| AGENDA        | Thursday May 19, 2016   | Modesto Centre Plaza   | 8am – 12noon |
|---------------|---|--|--------------|
| Time          | Topic   | Speaker  |              |
| 7:00 – 7:45   | Registration & Breakfast  | Breakfast courtesy of <i>Rain Bird</i>   |              |
| 7:45 – 7:50   | Welcome   | Juan Tejeda- <i>City of Modesto</i>  |              |
| 7:50 – 8:05   | California Drought Update   | Julie Saare-Edmonds<br><i>CA Department of Water Resources</i>                                 |              |
| 8:05 – 8:25   | Local Water Restrictions & Landscape Documentation Requirements             | Juan Tejeda & Nathan Houx<br><i>City of Modesto</i>  |              |
| 8:25 – 10:30  | Irrigation Management: mitigating water & pesticide runoff                  | Jim Borneman, <i>Ewing Irrigation Products</i>   |              |
| 8:25 – 8:45   | Precipitation Rates (PR)  |  |              |
| 8:45 – 9:00   | Improving Distribution Uniformity (DU)                                      |  |              |
| 9:00 – 9:30   | Controller Programming  |  |              |
| 9:30 – 9:40   | Break   |  |              |
| 9:40 – 10:05  | Drip and Micro-irrigation PR  |  |              |
| 10:05 – 10:20 | Plant, Soil & Water Relationships   |  |              |
| 10:20 – 10:25 | The Water Meter – A Management Tool   |  |              |
| 10:30 – 11:20 | Field Exercises- Irrigation Management: mitigating water & pesticide runoff | Jim Borneman, <i>Ewing Irrigation Products</i><br>Tom Noonan, <i>Ewing Irrigation Products</i> |              |
| 11:20 – 11:30 | Break   |  |              |
| 11:30 – 11:50 | Irrigation Management for Urban Trees                                       | Loren Oki, <i>UC Cooperative Extension</i>   |              |
| 11:50 – 12:00 | Closing Remarks & Certificates  | Jim Borneman, <i>Ewing Irrigation Products</i>   |              |

PRESENTED BY

Refreshments courtesy of



CLCA EWING HUNTER TORO NETAFIM RAIN BIRD

# Guest Speaker



# Julie Saare-Edmonds

(CA Department of Water Resources)

# Guest Speaker



# Juan Tejeda

(City of Modesto)



# Local Water Restrictions



| CITY OF MODESTO – DROUGHT CONTINGENCY PLAN (Revised December 1, 2015)  |   |  |   |
|--|---|--|---|
| <i>*(Applies to all COM water users including residential, commercial, industrial, institutional, and private wells)</i>   |   |  |   |
| Drought Stage I – Minor Shortage Potential   | Drought Stage II – Moderate Shortage Potential  | Drought Stage IIA – Medium Storage Potential   | Drought Stage III – Critical Shortage Potential   |
| <b>Phasing Criteria</b>  |   |  |   |
| * Extended periods of drought, associated with a warm, dry season, and due to lower than average precipitation and runoff.   | * Extended periods of drought, associated with a warm, dry season, and due to lower than average precipitation and runoff.  | * Extended periods of drought, associated with a warm, dry season, and due to lower than average precipitation and runoff.   | * Groundwater levels are dropping due to the increased use associated with a warm, dry season, and due to lower than average precipitation and runoff.<br><br>* Production from wells is decreasing.<br><br>*There is a possibility that customer demands and system pressure requirements cannot be met at all times.  |
| <b>Reduction Objectives</b>  |   |  |   |
| 10%-20% reduction in total water production from baseline.   | 20%-35% reduction in total water production from baseline.  | 30%-40% reduction in total water production from baseline.   | 35%-50% reduction in total water production from baseline.  |
| <b>Requested Consumer Actions</b>  |   |  |   |
| <p>* Outdoor water use prohibited daily from noon - 7 p.m.*<br/>Odd-numbered addresses water W, F, Su<br/>Even-numbered addresses water, T, Th, Sa<br/>No outdoor water use on Mondays.<br/>* Car washing subject to above-cited limitations with use of a positive shutoff nozzle</p> <p>* Hosing concrete areas, building exteriors, etc..., is prohibited except for health/safety concerns and only with use of a positive shutoff nozzle.</p> <p>* Water leaks, once identified by home owner, must be repaired within 24 hours.</p> <p>* Restaurants encouraged serving water only on request.</p> | <p>* Outdoor water use prohibited daily from 9 a.m. - 7 p.m.*<br/>Odd-numbered addresses water W, Su<br/>Even-numbered addresses water, T, Sa<br/>No outdoor water use on Mondays, Thursdays, &amp; Fridays.</p> <p>* Car washing subject to above-cited limitations with use of a positive shutoff nozzle</p> <p>* Hosing concrete areas, building exteriors, etc..., is prohibited except for health/safety concerns and only with use of a positive shutoff nozzle.</p> <p>* Water leaks, once identified by home owner, must be repaired within 24 hours.</p> | <p>Odd-numbered addresses water Sunday<br/>Even-numbered addresses water Saturday<br/>* Outdoor water use prohibited Saturday and Sunday from 9 a.m. - 7 p.m.*</p> <p><u>No outdoor water use on Mondays, Tuesdays, Wednesdays, Thursdays, &amp; Fridays.</u></p> <p>* Car washing subject to above-cited limitations with use of a positive shutoff nozzle</p> <p>* Hosing concrete areas, building exteriors, etc..., is prohibited except for health/safety concerns and only with use of a positive shutoff nozzle.</p> <p>* Water leaks, once identified by home owner, must be repaired within 24 hours.</p> | <p>* No outdoor water use except for trees shrubs by hand, and vegetation maintained through drip irrigation.</p> <p>* Car washing permitted at car wash facilities only.</p> <p>* Hosing concrete areas, building exteriors, etc..., is prohibited except for health/safety concerns and only with use of a positive shutoff nozzle.</p> <p>* Water leaks, once identified by home owner, must be repaired within 24 hours.</p> <p>* Restaurants prohibited from serving water except upon request.</p> <p>* Mandatory retrofit of low flow showerheads and toilets in homes when Remodeling occurs.</p> <p>* No use of outdoor fountains except for maintenance purposes.</p> |

# Local Water Restrictions



## TWO DAY WATERING! Effective May 1 - October 31

City of Modesto  
Water Conservation:  
**(209) 342-2246**

- › Outdoor watering prohibited daily from 9:00 am – 7:00 pm
- › Odd-numbered addresses watering days are Wednesday and Sunday
- › Even-numbered addresses watering days are Tuesday and Saturday
- › No outdoor water use on Monday, Thursday and Friday
- › Hosing any outside areas is prohibited except for health/safety reasons
- › No irrigating turf or ornamental landscapes during and 48 hours following measurable rain
- › Outdoor watering must be kept on your property...avoid water runoff

Please see back side for water conservation tips ➔



**Drought  
Stage II**

### PENALTIES FOR WATER WASTE

#### VIOLATION

- › First Notice of Violation
- › Second Notice of Violation
- › Third Notice of Violation
- › Subsequent Violations

#### FINE

- Written notice of violation, no fine issued
- \$150.00
- \$250.00
- \$500.00

[www.modestogov.com/savewater](http://www.modestogov.com/savewater) • State of California website: [www.saveourwater.com](http://www.saveourwater.com)

# City of Modesto Water Systems



- Modesto
- Salida
- Empire
- Del Rio
- Grayson
- Turlock
- Ceres

# Guest Speaker



# Nathan Houx

(City of Modesto)

# Main Speaker



# Jim Borneman

(Ewing Irrigation Products)

# Break



# Break

# Main Speaker



# Jim Borneman

(Ewing Irrigation Products)

# Break



# Break



# Field Exercises



# Irrigation

# Break



# Break

# Guest Speaker



# Dr. Loren Oki

(UC Cooperative Extension)

# Closing



# Question/Remarks

# Closing



# Certificates