

# CDFW Climate College: Lecture #8

In it for the long haul: CDFW Going Green Sustainability Initiative



**Crilly Butler**  
CDFW



**Whitney Albright**  
CDFW

April 11, 1:30 - 2:30PM



# Save the Date!

- CDFW Climate College Awards Ceremony:

**Tuesday June 25<sup>th</sup>, 1:00-3:00PM**

**Natural Resource Building Auditorium-Sacramento**

- Celebrate projects completed by your colleagues!
- Watch 7 of 9 lectures & submit a project
  - Receive certification from DFW/OTD and a certificate of completion from the Director



# Save the Date!

CDFW Climate College Awards Ceremony: Tuesday June 25<sup>th</sup>, 1:00-3:00PM

## Projects Due May 31<sup>st</sup>!

The evolution of climate change approaches in Natural Community Conservation Plans in California

Develop Climate Change Considerations section(s) for CDFW Salmon Vision Document

Climate Change and the Suisun Marsh: How will Fish and Wildlife Species be Impacted?

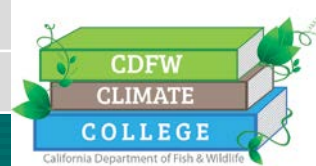
Climate Change Impacts to California Rangelands Webpage

Climate Change Impacts on the Amargosa River Vole

Integrating potential climate change impacts into management plans for CDFW properties in the San Joaquin Valley area

Climate Education for All Ages

Upland Water-Wise Food Garden



# Building a Climate Community: Regional Staff Highlights

- Marine Region Climate Workgroup
- Doug Neilson/Climate Scientist on staff!
- Elk Horn Slough-Climate Research & Climate Adaptation Projects

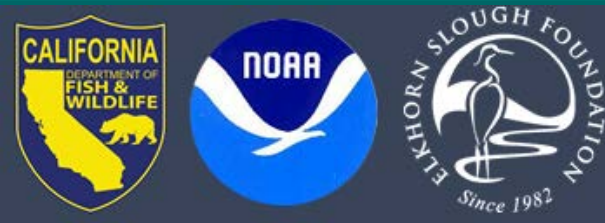
# Adaptation Action: Elkhorn Slough

## ○ Climate Research & Monitoring

- Water Quality
- Habitat Change
- Biological Indicators

## ○ Adaptation Projects

- Oyster restoration
- Wetland-upland ecotone as indicator
- Tidal restoration



# CDFW Climate College: Lecture #9

## Walk the Talk: CDFW Testimonials



Kevin Hunting



Gordon Leppig, R1



Mike Carion, LED



Debbie Aseltine-Neilson, MR

May 16th  
1:30 - 2:30PM



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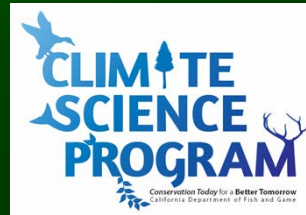
**Whitney Albright**  
CDFW

April 11, 1:30 - 2:30PM





**Whitney Albright**  
Climate Change Associate  
California Department of Fish and Wildlife  
Climate Science and Renewable Energy Branch





# What is Going Green?

## Staff-driven sustainability initiative at the Department

Home Recreation Resource Management Enforcement Marine Spills Education Science Institute Data & Maps

Fish, Wildlife and Habitat Management

Climate Science Program [Home](#) -> [Climate and Energy](#) -> [Going Green](#)

- » Activities
- » Resources
- » CDFW Climate College
- » [CDFW Climate Stakeholders](#)
- » [CDFW Going Green](#)
- » Climate Change Case Studies
- » Vulnerability Assessment Tools
- » For Teachers
- » Western Association of Fish and Wildlife Agencies
- » Director's Bulletins
- » Legislation and Policy

CDFW Climate Science and Renewable Energy Branch  
1416 9th Street  
Sacramento, CA 95814  
[climatechange@wildlife.ca.gov](mailto:climatechange@wildlife.ca.gov)

### CDFW Going Green: Creating a More Sustainable Future

On October 29, 2009 a Director's Bulletin and report, "CDFW Going Green: Reducing Our Carbon Footprint", were sent out to all staff to help CDFW reduce its carbon footprint and save valuable resources. Following the release of the report there were many inquiries from employees about CDFW's next steps. In response, the Director issued a second Bulletin on January 19, 2010 that created a Going Green Work Group (Work Group). This work group is helping CDFW to create a vision of sustainability and to identify the next steps towards implementing a strategy to reduce CDFW's carbon footprint. On this page we highlight CDFW sustainability activities and products in addition to partner highlights and resources.


[Going Green Sustainability Superstars](#)  
Learn about CDFW's Going Green Superstars and what they are doing to reduce their carbon footprint in the workplace.

#### CDFW Sustainability Activities

- » [Going Green Team](#)
  - » [Going Green Reports](#)
    - » [CDFW Going Green: Reducing Our Carbon Footprint, 2009 \(PDF\)](#)
    - » [CDFW Going Green: Next Steps Towards Sustainability, 2011 \(PDF\)](#)
  - » [Going Green Director's Bulletins](#)
  - » [Going Green Team Excellence Award \(PDF\)](#)
- » [CDFW Bikes! initiative](#)
- » [Paperless Office Project](#)

Partner Highlight – Sustainability at the Department of Water Resources (DWR)

- » [DWR Sustainability Portal](#)
- » [DWR Sustainability Library](#)



[http://www.dfg.ca.gov/Climate\\_and\\_Energy/Climate\\_Change/Activities/Stakeholders/](http://www.dfg.ca.gov/Climate_and_Energy/Climate_Change/Activities/Stakeholders/)

100%

[http://www.dfg.ca.gov/Climate\\_and\\_Energy/Going\\_Green/](http://www.dfg.ca.gov/Climate_and_Energy/Going_Green/)

# Outline

- ▶ Development of Going Green initiative: Reports, Bulletins, and the Going Green Team
- ▶ DFW Bikes! committee
- ▶ Highlight of Department sustainability activities
- ▶ Highlight of staff sustainability activities

# DFW: Reducing our Carbon Footprint



DEPARTMENT OF  
**FISH AND GAME**

## DFG Going Green: Reducing Our Carbon Footprint

Compiled in this document is a list of ideas that the Department of Fish and Game (Department) could take to create a more climate change friendly way of doing business. Many of the examples mentioned would not only help decrease the Department's contribution to the climate change challenge but also save the Department's valuable resources and funds. Specifically, these activities can help minimize the Department's carbon budget and greenhouse gas (GHG) emissions. Examples include going to electronic signatures to cut down on paper, resolving mileage requirements for vehicle use, web-based meetings and conferences, and exploring financial incentives provided by companies such as PG&E to help us "green" Department facilities. Many thanks to all the Department employees who contributed thoughts and suggestions<sup>1</sup> and helped get this document off the ground. Special thanks to Linda Miller for compiling comments and preparing the document for review.

<sup>1</sup>Brian Acord, Chuck Armor, Tina Bartlett, Roxanne Bittman, Brenda Blinn, Jennifer Carlson, Jeanne Chinn, Janet Cobb, John Elkibhoff, Richard Fitzgerald, Gina Ford, Gayle Gamman, Holly Gellerman, Diana Gillingham, Diana Hickson, Cristen Langner, Melissa LaPorte, Gordon Leppig, Tracy Love, Tom Lupo, Leslie MacNair, Glenda Marsh, Ray McDowell, Shaina Meiners, Linda Miller, Dave Moore, Isaac Oshima, Monica Parisi, Katie Perry, Heather Pert, Cynthia Royce, Mark Smelser, Mike Snyder, Dale Steele, Timothy Stevens, Valerie Vanway, Cathie Vouchilas, Bruce Webb, Julie Yamamoto, and Marci Yaremoko.

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# DFW Going Green Team



# Going Green Team: Sustainability Report



## DFG Going Green: Next Steps Toward Sustainability

September 20, 2011

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# Director's Bulletin: Guidelines for Reducing Carbon Footprint

- ▶ Paper Reduction
- ▶ Transportation
- ▶ Energy Conservation & Efficiency
- ▶ Reduction in Water Use
- ▶ Green Meetings
- ▶ Purchasing
- ▶ Recycling

# Going Green Team Wins DFG Employee Excellence Award!



# DFW Bikes!

- ▶ Bikes committee
  - Promote happy and healthy work environment
  - Incentivize commuting to work
  - Support biking community at DFW
- ▶ DFW Bikes! online forum
- ▶ DFW Bikes! website





# DFW Bikes!

- [Activities](#)
- [Resources](#)
- [CDFW Climate College](#)
- [CDFW Climate Stakeholders](#)
- [CDFW Going Green](#)
- [Climate Change Case Studies](#)
- [Vulnerability Assessment Tools](#)
- [For Teachers](#)
- [Western Association of Fish and Wildlife Agencies](#)
- [Director's Bulletins](#)
- [Legislation and Policy](#)

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1416 9th Street  
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[climatechange@wildlife.ca.gov](mailto:climatechange@wildlife.ca.gov)

## CDFW Bikes!

At the initiative of CDFW staff the Director has formed a new committee called CDFW Bikes! that is focused on creating incentives to encourage employees to bike more frequently in order to reduce the Department's carbon footprint and increase employee morale around an activity that promotes a healthy lifestyle. Scroll down to view informational links related to bike safety, commuter tips, bike maps, and more. If you have suggestions for additional resources that should be on this page please contact us at [climatechange@dfg.ca.gov](mailto:climatechange@dfg.ca.gov).

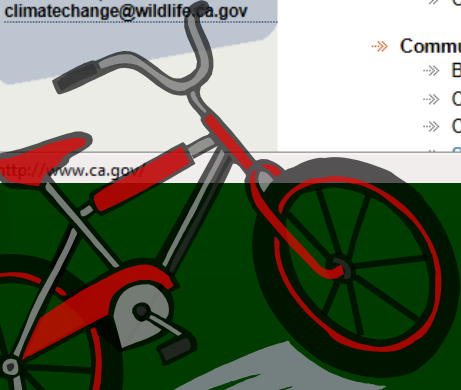


### → [May is Bike Month](#)

Check out the 'Small Employers' tab on the right. CDFW is listed third place for logging the most bike hours in 2011!

## Biking/Commuting Resources

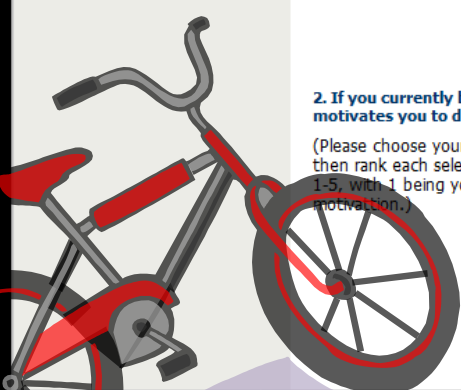
- **Biking Laws and regulations**
  - Bike Link: [California Bicycle Laws and Safety](#)
  - California DMV: [California Driver's Handbook: Sharing the Road with other Vehicles](#)
- **Commuter tips**
  - Bicycle Hub: [Tips for Commuters \(PDF\)](#)
  - Caltrans: [Bicycle Commuting and Safety](#)
  - California DMV: [Bicycle Rules and Safety](#)



# DFW Bikes!

## ► Where are they now?

- Bike survey



Convert Select

& Sustainability Roundtable

- Join the Forum: DFG Bikes!
- Review DFG Climate College Materials

### Bikes! Survey

Please take this important survey so that we can get your input on increasing bike ridership among DFG employees. **This survey is intended for the Sacramento area.** The Sacramento pilot study is designed to get a better understanding of the needs and desires of Department of Fish and Game staff with regards to cycling for personal commuting and for travel on state business. Once these survey results are reviewed and analyzed a final survey will be sent out statewide.

#### PART A. Commuting to work by bike: Biking trends, resources and preferred incentives to bike to work

**1. How often do you ride your bike to work?**

	Spring/Fall	Summer	Winter
<input type="checkbox"/> Never	<input type="checkbox"/> Never	<input type="checkbox"/> Never	<input type="checkbox"/> Never
<input type="checkbox"/> Less than four times a month	<input type="checkbox"/> Less than four times a month	<input type="checkbox"/> Less than four times a month	<input type="checkbox"/> Less than four times a month
<input type="checkbox"/> Once a week	<input type="checkbox"/> Once a week	<input type="checkbox"/> Once a week	<input type="checkbox"/> Once a week
<input type="checkbox"/> Two to three times a week	<input type="checkbox"/> Two to three times a week	<input type="checkbox"/> Two to three times a week	<input type="checkbox"/> Two to three times a week
<input type="checkbox"/> Four or more times a week	<input type="checkbox"/> Four or more times a week	<input type="checkbox"/> Four or more times a week	<input type="checkbox"/> Four or more times a week

**2. If you currently bike to work, what motivates you to do so?**  
(Please choose your top five or less, then rank each selected item from 1-5, with 1 being your primary motivation.)

Top Motivations (mark up to 5)	Rank (1 - 5)
<input type="checkbox"/> a. Faster than driving and parking	<input type="checkbox"/>
<input type="checkbox"/> b. Costs less than parking a car	<input type="checkbox"/>
<input type="checkbox"/> c. More flexible than public transportation	<input type="checkbox"/>
<input type="checkbox"/> d. Concern for the environment	<input type="checkbox"/>
<input type="checkbox"/> e. Exercise	<input type="checkbox"/>
<input type="checkbox"/> f. Saving money and/or gas	<input type="checkbox"/>
<input type="checkbox"/> g. Guaranteed bicycle lockers and racks	<input type="checkbox"/>

# Department Activities: Implementing Executive Orders

- ▶ EO B-18-12; Green building practices, energy conservation, water use (BMB & ITB)
- ▶ EO B-16-2012; Zero emission vehicles (EB)

# Department Activities: Tracking Emissions Reduction

- ▶ Collecting information on...
  - vehicle fuel usage
  - bulk fuel purchases
  - electricity consumption
  - utility usage (i.e. metered kilowatt hours)
  - all other greenhouse gases statewide
- ▶ Established 2008 as a baseline
- ▶ Reporting a **reduced energy use intensity (kBtu/sq.ft) of 7.3% in 2010**

# Department Activities: Paper reduction and energy savings

- ▶ PC Imaging, screen savers, etc.
- ▶ Reducing paper consumption by converting paper forms to electronic format

# Staff Activities: Sampling of Sustainability Efforts

- ▶ Region 1: Climate committee
- ▶ Region 2: Recycling program
- ▶ Region 3: Sustainability mindset

# Staff Activities: Sampling of Sustainability Efforts

- ▶ Region 4: Optimizing energy use
- ▶ Region 5: Reducing paper and toner use
- ▶ Region 6: Bishop and Ontario office highlights
- ▶ Business Management Branch: Kitchen composting experiment

# Staff Activities: Sustainability Superstars!

Home Recreation Resource Management Enforcement Marine Spills Education Science Institute Data & Maps

Fish, Wildlife and Habitat Management |

Climate Science Program Home → Climate and Energy → Going Green → Sustainability Superstars

- Activities
- Resources
- CDFW Climate College
- CDFW Climate Stakeholders
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## CDFW Going Green: Sustainability Superstars!

CDFW's Going Green team, initially comprised of a handful of members, has grown to include over 150 staff at different times and in varying capacities since its inception. As a result of their efforts, the Going Green core team was recognized by CDFW with an Employee Excellence Award. The Going Green team was one of only two recipients of this award in 2012. To highlight some of the activities that have made the Going Green initiative what it is today, we have compiled the list of stories below that demonstrate some of the actions being taken by CDFW Going Green team members and other staff to increase sustainable operations at CDFW.


If you would like to recognize an individual or group of CDFW staff that are making a difference as sustainability superstars, please contact us at [climatechange@dfg.ca.gov](mailto:climatechange@dfg.ca.gov).

### Crilly Butler, IT Branch: Paper to Electronic Form Migration Project




CDFW believes that converting internal paper-based forms to an automated, electronic document format utilizing electronic signatures will save time and money, improve speed and efficiency, and reduce CDFW's overall carbon footprint. Crilly Butler has taken a lead role in migrating older-generation fill-and-print forms to an all-electronic form-processing technology. This will eventually enable forms to be routed around the department through their entire lifecycle using digital signatures and an automated workflow engine following the business rules specific to each form. One by one, forms are being converted to use this new technology, and ultimately most of the department's forms processing will be digital.

### Melissa LaPorte, Business Management Branch (BMB): Kitchen composting experiment



Over the past few years, Melissa has worked tirelessly to promote sustainability at CDFW and has been a core member of CDFW's Going Green team since its



GOING GREEN  
California Department of Fish and Game

100%



# What's Next?

► It's up to you!

Home | Director's Office | Human Resources | Training | Business Operations | Information Technology | Explore CDFW

CDFW Mission | Seven Strategic Initiatives | Operations Manual | Tracking System | Executive Staff Directory

## I Need To...

- Join the Forum: Climate & Sustainability Roundtable
- Join the Forum: DFG Bikes!
- Review DFG Climate College Materials

Explore CDFW » Divisions » ECD » Climate Science and Sustainability » The Climate & Sustainability Roundtable

### The Climate & Sustainability Roundtable



In order to enhance communication between the DFG climate team and DFG staff, this forum will provide a means for exchanging information related to climate change among DFG staff and foster internal communication regarding DFG climate change updates, news on recent research and publications, conference announcements, and more. Participation in this group will be a great way to learn how the DFG is integrating climate change into its daily functions and collaborative activities with stakeholders.

In order to participate in the forum, you will need to log in to this site with your Novell user name and password. To do so, simply click on the "Editor Login" link in the upper right-hand corner of this page. Then click on the "DFG" button, enter your Novell/GroupWise username and password, and click on the "Login" button. You will then be able to add to existing discussion threads or start a new thread within the forum. Questions or additional information please email [climatechange@dfg.ca.gov](mailto:climatechange@dfg.ca.gov).


**Forum guidelines:**

1. Maintain courteous and respectful discussions.

### Climate & Sustainability Roundtable (you must log in to participate)

Climate Roundtable Forum

Forums	Threads	Posts	Last Post
<b>Discussions</b>			
 Climate Roundtable	152	168	Global warming ... 3/20/2013 10:26 AM by <a href="mailto:Amber.Pairs@wildlife.ca.gov">Amber.Pairs@wildlife.ca.gov</a>
<b>1 Forums In 1 Groups</b>			

Back To Top

A vibrant field of orange poppies and purple lupines. The foreground is dominated by a tall, central stalk of purple lupine flowers, with several other smaller stalks scattered throughout. The background is a vast field of orange poppies stretching towards rolling hills under a clear blue sky.

# Thank you!

[climatechange@wildlife.ca.gov](mailto:climatechange@wildlife.ca.gov)



# From Paper Forms to eForms

A Collaborative Model for  
Moving Forward

CDFWClimate College

April 11, 2013



# Why Migrate from Paper to Digital?

- Savings in time
- Savings in dollars
- Improvement in speed
- Improvement in efficiency
- Improvement in traceability
- Improvement in accountability
- Improvement in security



# Initial Process

- Find a “fill-and-print” form on the Intranet
- Open the form and complete it
- Print it out
- Sign with a “wet signature”
- Make a copy for YOUR records
- File the copy
- Walk the signed form over to your supervisor



# Initial Process (cont.)

- Supervisor signs the form
- Supervisor makes a copy for his/her records
- Supervisor files his/her copy
- Supervisor mails the form for final approval
- Form arrives at destination
- Form receives final signature/approval
- Form is copied
- Form is filed for permanent record

And that's if  
everything  
goes  
perfectly...





# Ramifications of Initial Process

- Time consuming – can take days to process a form
- Incurs expenses of printing (paper, toner cartridges, printer maintenance, etc.)
- Incurs expenses of transport (envelopes, postage, mail room staff, courier fees)
- Incurs expenses for storage and archiving ALL the copies throughout the organization
- Difficult to track, and easily lost or misplaced
- Little accountability without cumbersome supporting systems



# What's the Alternative?





# Process Improvement (Goals)

- Go paperless! Convert paper forms to eForms
- Move from wet signatures to digital signatures
- Make use of existing infrastructure and technologies as much as possible
- Transmit forms electronically (email attachment)
- Secure forms (records) automatically
- Save forms securely in designated network shares with access controls
- Save time, money, other resources, and headaches, while significantly improving the overall business process



# New “Paperless” Process

- Find the “fill and send” form on the Intranet
- Open the form, complete it and digitally sign it
- Save an electronic copy locally for your records
- Send it via email attachment to the approver
- Approver digitally signs, saves copy locally and forwards it on to its final destination
- Form gets final digital signature (if necessary) and is saved to a secure network share

# Okay, Maybe Not Quite...






# Project Requirements

- Obtain high-level buy-in and support (key!)
- Look for a solution that can be implemented using existing infrastructure and technologies (no added expense)
- Start small (eat the elephant one bite at a time)
- Carefully select initial form candidates
- Vet with the legal department (and persuade as necessary)
- Begin the process of “turning the battleship” (sea change in “corporate culture”)



# Candidate Form Requirements

- PDF form that can be completed electronically
- Form must be able to complete the entire internal business process
- Form must be able to be signed electronically
- Form signatures must be sufficiently trusted
- Form needs to be able to be routed electronically in some manner to all signatories or parties (email)
- Completed form must be stored in a secure digital repository
- Electronic business process needs to surpass the current manual process with regard to speed, ease of use, accuracy, security, resource costs and trust



# Legal Support – CA Government Code Section 16.5

16.5. (a) In any written communication with a public entity, as defined in Section 811.2, in which a signature is required or used, any party to the communication may affix a signature by use of a digital signature that complies with the requirements of this section. The use of a digital signature shall have the same force and effect as the use of a manual signature...



# Enabling Technologies

- Form design tool (e.g. Adobe Acrobat Professional/LiveCycle Form Designer ES)
- Form response tool (e.g. appropriate version of Adobe Reader)
- Secure digital certificate (either internal certificate for internal use or third-party trusted certificate for universal use)
- Secure repository (e.g. network shared folder with appropriate access controls and security)
- Automated form distribution methodology (email)



# Assumptions

- Person(s) will be designated to create the electronic forms
- A secure digital certificate can be obtained, at no cost, that is acceptable for internal departmental use
- Form initiation and response tool(s) are available within the current desktop image of the department (e.g. Adobe Acrobat Professional and Reader)
- Certificate will be installed by individual employees in a secure location (file or registry)
- Network shares at destination will be created and configured
- Appropriate instructions will be created and training made available to participants



# Project Path





# Project Path

- Select final form candidates
- Create all-electronic versions of forms
- Experiment with creating digital signatures
- Test forms
- Create user documentation
- Publish forms and documentation
- Obtain executive mandate (in memo form)
- Promote training and help resources



# Build It and They Will Come!

- Requests from throughout department for converting additional forms
- Solicit and distribute manager mandates
- Update/refine existing forms
- Create/migrate new forms
- Track success
- Pursue incremental progress

# Resources

- California Government Code 16.5  
<http://www.sos.ca.gov/digsig/code-section-16-5.htm>
- California Code of Regulations, Title 2, Sections 22000-22005 <http://www.sos.ca.gov/digsig/digital-signature-regulations.htm>
- Digital Signatures in Acrobat  
[http://learn.adobe.com/wiki/download/attachments/52658564/digital\\_signatures\\_in\\_acrobat\\_9x.pdf?version=1](http://learn.adobe.com/wiki/download/attachments/52658564/digital_signatures_in_acrobat_9x.pdf?version=1)

# Discussion



# CDFW Climate College: Lecture #9

## Walk the Talk: CDFW Testimonials



Kevin Hunting



Gordon Leppig, R1



Mike Carion, LED



Debbie Aseltine-Neilson, MR

May 16th  
1:30 - 2:30PM

