Staff Updates
Industry Services
Enrollments and Invoices

- 177 companies
- 206 active contracts
- 36 inactive contracts
- Roughly 11 million acres total
  - 6.4 million acres in oil and gas enrollments
- $49.3 million invoiced for enrollment and mitigation
  - $48.4 million received (98% current)
CCAA open for transfers and new enrollments

Oil and gas enrollments transferred from the WCA
• 7 companies enrolled 635,697 acres

New oil and gas CCAA enrollments
• 3 companies enrolled 54,780 acres
Information Systems
Improvements to the database and accessibility

July 2015, Hired new Database Administrator

Completely rebuilt database

Better organization structure

Increased efficiency in queries via improved attribute consistency

Automated linkages to eliminate redundancy in data entry

Generally better from 1.5 years of working with and knowing what we now need
Hosted USFWS visit December 17\textsuperscript{th}, 2015

Spent almost 4 hours giving live demonstration of the database and how it can be accessed/used

Item by item explanation of all data fields in the tracking log and ledgers

Explanation of each GIS layer and its attributes

Did numerous walk-throughs of hypothetical questions

For project X:
Find it in the tracking log, determine its status, review payment info
If completed, find it in the ledger and identify the conservation unit it is offset by

Using the shared access to the WAFWA database, find that same project
Identify the enrollment area it is on and its enrollment ID
Map and view the evaluation units for its impact area
CHAT category, new area impacted, habitat units impacted,
Western Association of Fish and Wildlife Agencies

Field identification guide of common plants used to assess habitat as part of the lesser prairie chicken Range Wide Plan

Custom field guide of common plants in LPC range

Print 3.5 x 5.5 laminated and spiral bound books for field crews

Focuses on plant identification characteristics

Includes a summary of the field sampling methodology

Currently 46 species, 94 pages

Initial printing of 200 books

Printing cost is estimated at $15 each, total of $3,000
Evaluation Units: Evaluation units will be generated by the GIS lab based on Ecological Side Description classes (soil groups) and fence lines (management) to create relatively homogenous sampling areas >= 5 acres. If management changes (fences) are not correctly mapped, note the changes and then add or merge units accordingly.

Sampling process within each evaluation unit:

1. Estimate the percent of tree cover. If tree cover is over 5%, no need to do vegetation transect sampling.

2. Vegetation Transect. Within each non-cropped evaluation unit, identify an area with vegetation proportions representative of the unit. Cropped units do not need sampling, just verify they are cropland.

Place a 150 ft. transect line with the 0 mark at the northeast end, and run the line to the southwest. Record the start and stop coordinate.

Take a photo at the start of the line, looking down the line so that site photo board info and plants along the transect are visible. Include on the photo board:

Site ID, Ecoregion, Evaluation unit #, Date, Collector

3. Vegetation Sampling: To sample, stand on the south side of the tape at the 0 mark. In a vertical decent, lower the end of a wire flag through the vegetation on the immediate north side of the tape.

Record vegetation "hits" in the order that the wire touches them (raindrops point of view). Indicate by asterisk (*) if the flag touches a plant more than 5 feet tall. Multiple hits on the same plant, and multiple litter hits are allowed, record each one. Record only confirmed hits, not almost touching. Record vegetation touches by plant group (PG, TG, SG, SH...) Include Yucca, Prickly pears, and trees with other woody stemmed vegetation in the shrub category (SH). Bare ground (BG) is recorded at the mark when no canopy hits are recorded above the exposed soil.

Repeat sampling every 3 feet down the tape (0,3,6,9...)

4. Check site map infrastructure is mapped correctly. Assess the immediate area as well as the broader 1,700 meter radius for towers/turbines. Add locations for missing features and note if features mapped are not actually present on the landscape.
**Indiangrass**
*Sorghastrum nutans*

**Habitat Indicator**
Open prairies, bottomlands, and open woods, more abundant in deep, moist soils, but can also occur on dry slopes.

**Wildlife Value**
Very nutritious and is readily grazed by livestock. It decreases when grazed heavily. Birds and small mammals consume the seeds.

**Characteristics**
Prominent "hammer claw" or "rabbit-ear" ligules at the point where the leaf blade attaches to the stem.

The nodes are slightly fuzzy and the stem and leaf blades often have a dusty blue/green hue.

The seed head panicle is long, torch shaped, and bronze to yellow in color. Individual seeds have a single “hair” sticking up about ½ inch long.
Western Wheatgrass
*Pascopyrum smithii*

Habitat Indicator
Moist to dry prairies, most abundant in fine textured clay/clay pan alkaline soils. In native areas it is typically found with blue grama, buffalo-grass, needlegrasses, rough fescue.

Wildlife Value
Western wheatgrass is nutritious for livestock and is readily grazed during the early growth stage. It makes good quality, high-protein hay and the fall seeds are good for songbirds, game birds, and small mammals.

Characteristics
Western Wheatgrass often has a dusty blue green hue.

Course leaves branch alternately from the stem.

The auricles at the base of the leaf blade are finger-like projections that often clasp around the stem.
Conservation Services
Conservation Contract Status  
(as of 01/12/16)

- 13 executed contracts
  - Expended $1.83 million and committed $15.6 million
  - >15,000 acres of prescribed restoration and 8,215 acres completed

- 53 open applications covering >280,000 acres

<table>
<thead>
<tr>
<th>Service Area</th>
<th>Executed Contracts</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shortgrass</td>
<td>4</td>
<td>9,511</td>
</tr>
<tr>
<td>Sandsage</td>
<td>1</td>
<td>12,689</td>
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<tr>
<td>Mixed Grass</td>
<td>4</td>
<td>62,037</td>
</tr>
<tr>
<td>Shinnery Oak</td>
<td>4</td>
<td>17,730</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>13</strong></td>
<td><strong>101,967</strong></td>
</tr>
</tbody>
</table>

* 7 executed contracts in Kansas
Conservation Easement Status
(as of 01/12/16)

– Agreements in place with 5 land trusts to identify properties and administer easements
  • The Nature Conservancy
  • The Conservation Fund
  • Pheasants Forever
  • Ranchland Trust of Kansas
  • Texas Agricultural Land Trust

– Goal of 25,000 acres in each service area within 10 years
– Fee title acquisition of 1,604 acres in TX for $1.02 million
– Negotiations under way with 4 landowners to conserve another ~35,000 acres
WAFWA Mitigation Units
January 12, 2016

- **SHINNERY**: 2,668 Impact Units, 9,288 Offset Units
- **SAGEBRUSH**: 1,792 Impact Units, 8,195 Offset Units
- **MIXED GRASS**: 27,351 Impact Units, 33,387 Offset Units
- **SHORTGRASS**: 2,065 Impact Units, 3,086 Offset Units
FINANCIAL UPDATE
### Beginning of Program Through 12/28/2015

#### CCAA

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Paid</td>
<td>$ 14,410,530</td>
<td>$ 14,306,427</td>
<td>$</td>
<td>$ 28,716,957</td>
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<tr>
<td>Prepaid</td>
<td>$</td>
<td>$</td>
<td>$ 2,529,184</td>
<td>$ 2,529,184</td>
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<tr>
<td>A/R</td>
<td>$ 117,834</td>
<td>$ 180,968</td>
<td>$ 809,666</td>
<td>$ 1,108,468</td>
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**Total** $ 14,528,363 $ 14,487,396 $ 3,338,850 $ 32,354,609

#### WCP

<table>
<thead>
<tr>
<th>Year</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paid</td>
<td>$ 2,385,174</td>
<td>$ 919,609</td>
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<td>$ 3,304,784</td>
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<tr>
<td>Prepaid</td>
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<td>$ 12,638</td>
<td>$ 165,040</td>
<td>$ 177,678</td>
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<tr>
<td>A/R</td>
<td>$ 1,168</td>
<td>$ 584,500</td>
<td>$ 650</td>
<td>$ 586,318</td>
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</table>

**Total** $ 2,386,343 $ 1,516,748 $ 165,690 $ 4,068,780

**Year Totals** $ 16,914,706 $ 16,004,143 $ 3,504,540

*181 Total Companies Enrolled: Some companies have both CCAA & WCP enrollments*
<table>
<thead>
<tr>
<th>Total Enrollments</th>
<th>Amount</th>
<th>Estimated Mitigation Fee</th>
<th>Amount</th>
<th>Impact Assessment Fee</th>
<th>Amount</th>
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<tr>
<td>CCAA</td>
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<td>$8,175,160</td>
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<tr>
<td>WCP</td>
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<td>A/R</td>
<td>$-</td>
<td>A/R</td>
<td>$15,585</td>
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<tr>
<td>Total</td>
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<td>$8,175,160</td>
<td>Total</td>
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<td>Total Amount Billed</td>
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<tr>
<td>Total Outstanding AR</td>
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<tr>
<td>Total Amt Received</td>
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<td>Payments</td>
<td>Paid thru 12/31/15</td>
<td>Estimated Contract Obligations</td>
<td>Estimated 10 year Perpetuity Obligations</td>
<td>TOTAL</td>
<td></td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------------------</td>
<td>--------------------------------</td>
<td>------------------------------------------</td>
<td>-----------</td>
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<tr>
<td>Incentive Payments</td>
<td>$ 3,333,367</td>
<td>$ 19,478</td>
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<tr>
<td>Management Payments</td>
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<td>$ 11,635,730</td>
<td>$ 101,841</td>
<td>$ 11,737,571</td>
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<td>Restoration Payments</td>
<td>$ 502,904</td>
<td>$ 2,014,319</td>
<td>$ 40,000</td>
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<tr>
<td>TOTAL</td>
<td>$ 4,826,164</td>
<td>$ 13,669,527</td>
<td>$ 141,841</td>
<td>$ 13,811,368</td>
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</tbody>
</table>
Wind and Electric CCAA
WAFWA LPC CONSERVATION PLAN APPLICATION SUITE
The DISCOVERY and IMPLEMENTATION Process
Project Initiation

Answers: Why and Who
“Provide a voluntary pathway for industry to continue development in compliance with the ESA while targeting conservation to protect and improve LPC habitat. This can be accomplished by creating a comprehensive spatially linked database that included enrolled participants (industry and conservation), the location of magnitude of new impacts on the landscape, and habitat management reference layers (CHAT hexagons, focal areas, connectivity zones, ecoregions....) used to group and summary regions.”
OBJECTIVES

1. To streamline field data collection, calculate, and assess habitat impacts and conservation offsets using mobile and geospatial capabilities.

2. To create an enterprise application that facilitates data entry to a central database and allows users to share, query, and report industry and landowner impact and enrollment data.

3. Efficiently manage the enrollment, impact evaluation, project stage tracking, invoicing, reporting, and payment processes.
Product Requirements

Answers: What
Visual & User Experience Design

Answers: How
Build and Show Progress

Ensures we are on the right track
Ensure we support and maintain.
The DISCOVERY and IMPLEMENTATION Process

We are here. Building and showing progress.
Screenshots of the Mobile App

Welcome to
WAFWA WPC Mobile

michael.damrath@timmons.com

**************

Sign In
<table>
<thead>
<tr>
<th>Conservation</th>
<th>Industry - HEG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary</td>
<td>Feature Mixed Grass Company WAFWA ID</td>
</tr>
<tr>
<td>Monitoring</td>
<td>Feature Mixed Grass Company WAFWA ID</td>
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<tr>
<td>Industry</td>
<td>Feature Mixed Grass Company WAFWA ID</td>
</tr>
<tr>
<td>HEG</td>
<td>Compliance</td>
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</tbody>
</table>


<table>
<thead>
<tr>
<th>Project Details</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feature Name</td>
<td>Feature Name Data</td>
</tr>
<tr>
<td>Company Name</td>
<td>Company Name Data</td>
</tr>
<tr>
<td>Service Area</td>
<td>Service Area Data</td>
</tr>
<tr>
<td>WAFWA ID</td>
<td>WAFWA ID Data</td>
</tr>
<tr>
<td>Area Surveyed</td>
<td>Area Surveyed Data</td>
</tr>
<tr>
<td>Lek Within 1.25 Miles</td>
<td>Lek Within 1.25 Miles Data</td>
</tr>
<tr>
<td>Percent Impacted</td>
<td>Percent Impacted Data</td>
</tr>
</tbody>
</table>

**Comments**

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<table>
<thead>
<tr>
<th>Project Details</th>
<th>Evaluation Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Map 1</td>
<td>Evaluation Unit #1 line point intercept: 3</td>
</tr>
<tr>
<td>Map 2</td>
<td>Evaluation Unit #2 line point intercept: 6</td>
</tr>
<tr>
<td>Map 3</td>
<td>Evaluation Unit #3 line point intercept: 4</td>
</tr>
<tr>
<td><strong>Evaluation Units</strong></td>
<td><strong>Evaluation Unit #4 line point intercept: 0</strong></td>
</tr>
<tr>
<td></td>
<td>Evaluation Unit #5 line point intercept: 0</td>
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<tr>
<td></td>
<td>Evaluation Unit #6 line point intercept: 0</td>
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<tr>
<td></td>
<td>Evaluation Unit #7 line point intercept: 0</td>
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<tr>
<td></td>
<td>Evaluation Unit #8 line point intercept: 0</td>
</tr>
<tr>
<td></td>
<td>Evaluation Unit #9 line point intercept: 0</td>
</tr>
<tr>
<td></td>
<td>Evaluation Unit #10 line point intercept: 0</td>
</tr>
</tbody>
</table>
TG
Tufted Grass

PG
LPC Preferred Grass

SH
Shrub

FO
Forb

SS
Sand Sagebrush

SO
Shinnery Oak

WL
Woody Litter

HL
Herbaceous Litter

OL
Organic Litter

AL
Artificial Litter

BG
Bare Ground

SH5
Shrub > 5' tall

SO5
Shinnery Oak > 5' tall
Screenshots of the Web App

Welcome

WCT Login

User:
eric.royes@timmores.com

Password:

Need password help?

LOGIN

Copyright ©2016 WAFWA. All rights reserved.
New Enrollment

Name: Test Enrollment

Contract Type: WCA

Declared Acres:

Contract Completion Date:
NEXT STEPS
## What we’ve built...and what’s left... Industry

### COMPLETED OR IN-PROGRESS
- Create and edit companies and related information
- Create, edit, and transfer industry enrollments
- Create and submit proposals and projects
- Edit proposal and project details
- Manage (create, edit, retire) users
- Map enrollment areas, proposals, projects, and associated info
- Ability to search for enrollments or proposals / projects by multiple parameters
- View company directory
- Ability for industry user to login and view their “account page”
- Mobile HEG Workflow
- Mobile Compliance Workflow

### REMAINING
- Creations and viewing of evaluation units
- Project cost and HEG score calculations
- View and / or edit a transaction ledger
- Assign projec packets” to a specific biologist for inspection via the mobile app
- Submitting HEG and Compliance mobile data
What we’ve built...and what’s left... Conservation

**COMPLETED OR IN-PROGRESS**

- Mobile Preliminary Assessment Workflow
- Mobile Compliance Workflow

**REMAINING**

- Create and edit sites
- Create and edit management units
- Create evaluation units
- Ability to search, create, and edit contacts (build contact database)
- Ability to view all compliance monitoring data collected via the mobile app
- Automate creation of contract document
- Payment calculations and viewing
- Ability to search for contracts and view / sort contracts based on ranking
- Submitting
<table>
<thead>
<tr>
<th>Estimated Date</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHASE 1 - Project Implementation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/11/2015</td>
<td>Remote Kickoff Meeting</td>
<td>done</td>
</tr>
<tr>
<td>ongoing</td>
<td>Wednesday bi-weekly check-ins</td>
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</tr>
<tr>
<td></td>
<td>Status Reports</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Project Collaboration website</td>
<td>done</td>
</tr>
<tr>
<td>10/9/2015</td>
<td>Project Plan and Schedule</td>
<td>done</td>
</tr>
<tr>
<td>10/14/15 - 10/15/15</td>
<td>Onsite Workshops</td>
<td>done</td>
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<tr>
<td></td>
<td>Project Plan and Schedule</td>
<td>done</td>
</tr>
<tr>
<td><strong>PHASE 2 - Sys Arch, Reqs, &amp; Design</strong></td>
<td></td>
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</tr>
<tr>
<td>10/9/2015</td>
<td>System Requirements Summary</td>
<td>done</td>
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<tr>
<td>10/9/2015</td>
<td>System Architecture Design</td>
<td>done</td>
</tr>
<tr>
<td><strong>PHASE 3 - Application Requirements and Design</strong></td>
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</tr>
<tr>
<td>9/14 - 10/30/15</td>
<td>User Stories / Requirement Refinement</td>
<td>initial pass done, ongoing refinement</td>
</tr>
<tr>
<td>9/14 - 10/30/15</td>
<td>Wireframes</td>
<td>done</td>
</tr>
<tr>
<td>10/14 - 10/30/15</td>
<td>ERD</td>
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<tr>
<td><strong>PHASE 4 - Development and Testing</strong></td>
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</tr>
<tr>
<td>10/8/15 - 10/21/15</td>
<td>Iteration 1</td>
<td>done</td>
</tr>
<tr>
<td>10/22/15 - 11/4/15</td>
<td>Iteration 2</td>
<td>done</td>
</tr>
<tr>
<td>11/5/15 - 11/18/15</td>
<td>Iteration 3</td>
<td>done</td>
</tr>
<tr>
<td>11/19/15 - 12/9/15</td>
<td>Iteration 4</td>
<td>done</td>
</tr>
</tbody>
</table>
# TIMELINE – where we’re going

<table>
<thead>
<tr>
<th>Estimated Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHASE 4 - Development and Testing</strong></td>
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<tr>
<td>10/8/15 - 10/21/15</td>
<td>Iteration 1 done</td>
</tr>
<tr>
<td>10/22/15 - 11/4/15</td>
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<tr>
<td>11/5/15 - 11/18/15</td>
<td>Iteration 3 done</td>
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<tr>
<td>11/19/15 - 12/9/15</td>
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<tr>
<td>1/11/16 - 1/20/16</td>
<td>Iteration 6</td>
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<tr>
<td>1/21/16 - 2/3/16</td>
<td>Iteration 7</td>
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<td></td>
<td><strong>RELEASE 1 Web / iOS mobile beta</strong></td>
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<tr>
<td>2/4/16 - 2/17/16</td>
<td>Iteration 8</td>
</tr>
<tr>
<td>2/18/16 - 3/2/16</td>
<td>Iteration 9</td>
</tr>
<tr>
<td>3/3/16 - 3/16/16</td>
<td>Iteration 10</td>
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<tr>
<td>3/17/16 - 3/30/16</td>
<td>Iteration 11</td>
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<td>3/31 - 4/13/16</td>
<td>Iteration 12</td>
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<tr>
<td>4/14 - 4/27/16</td>
<td>Iteration 13</td>
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<tr>
<td>week of 5/2</td>
<td><strong>RELEASE 2 Web / Android mobile beta</strong></td>
</tr>
<tr>
<td>Early May</td>
<td>User Acceptance Testing / Bug Fixing</td>
</tr>
</tbody>
</table>

After Release 2, we will ask for extensive testing and feedback and enter a round of bug fixing and re-testing. This will likely be the most intensive testing need.
What do we need from WAFWA & when

- Confirmation of mobile app workflow after 1/8 demo
- Testing and use of site – core team after 1/8 demo, extended team after Release 1
- Review project and proposals integration piece and scope – week of 1/11
- Continue discussions around existing GeoProcessing task / project integration
- Continue timely feedback and accessibility – going well so far!
QUESTIONS?
Annual Report Drafting Process
RWP Annual Report

- LPC team meeting with FWS LPC staff – 1/20/16
- Integrate FWS LPC staff into draft reviews
- LPCIC draft 3/9/16
- Discussion of draft at North American 3/14/16
- LPCIC editorial comments 3/23/16
- LPCIC comments incorporated & final draft 3/28/16
- Final editing by 3/30/16
- Final editorial review and comments 3/31/16
Questions?
Oklahoma CCAA update
Closed Executive Session
Outstanding Invoices and Past Due Accounts

- **<60 days**—Three invoices totaling $5,002.79
- **61-90 days**—Four invoices totaling $233,811.76
- **>90 days**—Fourteen invoices totaling $719,757.99
  - One company accounts for 73% of the >90 day total

The oil and gas industry is experiencing an economic downturn
  - Oil prices are down ~70% over the last year and rig counts are down 66% across the five states

WAFWA is working with the past due companies to develop payment plans