



Landscape Restoration Team

Meeting 51 – GoTo Meeting

February 11, 2015



LR Team Agenda January Meeting #51

Welcome, ice breaker, review agenda	11:30-11:40
Debrief from National indicators to plan how to do better monitoring (Mark and small team)	11:40-12:10
Socio-Economic results continued (Tony)	12:10-12:40
Long -term funding strategy for sub-teams (Small team homework)	12:40-1:40
Spatial heterogeneity monitoring report (Kristen), also talk about restarting landscape scale SH group– 45 min (Kristen)	1:40-2:25
Monitoring data on private lands (Brett) - Tentative	2:25-2:40
Work planning for CY15 (Gali) – agree on deliverables and milestones	2:40-2:55
Wrap-up, next steps, calendar – plan monitoring jam session agenda	2:55-3



5 Year Report Monitoring Issues

1. Define “landscape” (e.g., certain watersheds – 12 digit HUCs?) and define zone of influence of treatments (aka “return on investment” multiplier) – untreated areas that benefit from treated areas (use fire behavior modeling to quantify?)
 1. Kristin: Spat. Hetero team can discuss and then bring input to jam session
2. Decide if we’re going to answer questions on watershed conditions – will we analyze and report on it next time? What would be a meaningful way to monitor it over next years?
 1. Or should we downplay watershed conditions in next report with rationale that at our scale, our treatments are unlikely to affect water quality conditions
 2. Or, is watershed condition relevant that we want to influence in CFLR, so we should invest more time and effort into assessment who watershed conditions are benefited by our work
 1. Next step? Jonas to lead sub-team to explore watershed issues: Talk to X on the Pike for input? What is out there, how would we measure it, what would constitute a meaningful impact? Post fire soil burn severity? Hot spots of sedimentation? Use Wildcat model? Post fire effects included? Model can’t expand beyond 500 acres though.
3. Invasive species metrics – our goal is not to increase invasive species – current text describes how we’ll evaluation by understory team (in the works)
4. How do the data on trees, fuels, how can we roll them up more into a direct statement about fire regime condition class (FRCC) change –Robto add to agenda of monitoring jam session

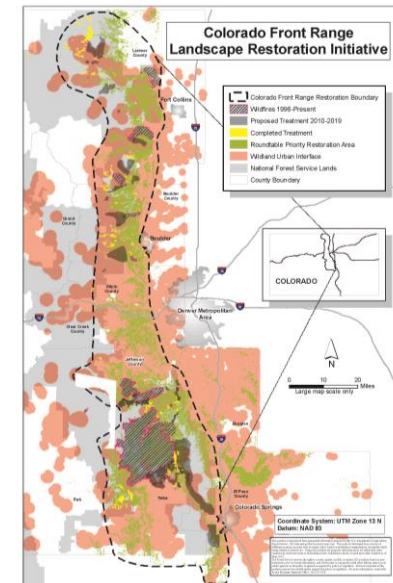


Project Outline: Landscape Restoration Team

Team Name: Landscape Restoration Team	Timeline Oct. 2010 to 2025	Sponsors Front Range Roundtable
CY 2014 Goals	1. Gather, analyze, and evaluate CFLR monitoring data in order to report to the Roundtable and Congress on whether forest treatments are trending towards desired conditions. 2. Gather, analyze, and evaluate new science and research methods to refine definitions of desired conditions 3. Implement Upper Monument Creek project as a model for collaborative forest treatment planning and implementation; identify similar opportunities for collaborative implementation planning on the AR	

Why this? Why now?

- Situation:**
 - The Collaborative Forest Landscape Restoration Act was established under Title IV of Omnibus Public Land Management Act of 2009 to encourage collaborative, science-based ecosystem restoration of priority forest landscapes. It authorizes: requests of up to \$40 million annually through 2019; CFLR may pay for up to 50% of the proposed costs (applicant must find the other 50%); up to \$4 million annually for any one project; up to 2 projects per year in any one FS region; and up to 10 projects per year nationally. CFLR funds may only be used on National Forest System lands for implementation and monitoring (not planning); for ecological restoration treatments only (not fire mitigation without restoration), and for up to 10 fiscal years on any one project.
 - Based on the Roundtable's 2006 vision and strategy, in May 2010, the Arapaho-Roosevelt and Pike-San Isabel National Forests, with the help of the Nature Conservancy, submitted a winning proposal under the Collaborative Forest Landscape Restoration Program (CFLRP), and has since received an additional \$1 million for Front Range National Forests in FY10, \$3.4 million in FY11, \$3.1 million in FY12, \$3.8 million for FY13, and \$X million in FY14 (with the possibility of further allocations for up to 10 years to implement ecological restoration on 31,600 acres of Lower Montane forests (3,400 acres per year for last 9 years, 1000 acres for first year).
- Complication:** The CFLRP grant required that the Roundtable form a multi-party monitoring group to plan, implement, and report the results of collaborative monitoring of the use of CFLRP funds for 15 years. Monitoring is to include ecological¹, social, and economic monitoring. In developing the monitoring plan, the Roundtable learned that target metrics for desired conditions don't exist.
- Resolution:** The Front Range CFLRP Monitoring Group was formed on October 15, 2010 to collaboratively develop a monitoring plan for the CFLRP projects, plan future collaborative implementation of the CFLRP, and launch science and research efforts to help define desired conditions.



Scope

- Includes work done by sub-teams: Social & Economic Monitoring Team (Kathie), Wildlife Team (Rick & Lynne), Understory Team (Paula), Upper Monument Creek (Paige); Spatial Heterogeneity Team (Kristen); Stand Reconstruction Team (Peter); LCC Monitoring (Jenny, closed); Operationalizing Adaptive Management Team (Rob); GTR Team (Rob); AR South Zone project (Mark)
- This LR team is currently only focused on topics related to CFLRP
- In 2015 this team will look at non-Federal lands for forest restoration.

CY 2014 Deliverables

- Regular meetings: meet in person every other month with phone calls the other months, working around Roundtable meetings (prep meetings); in summer skip meetings for field trips; let the agenda items drive the decision about in-person or webmeeting – IN PROGRESS
- Summer field trips (end of June / early July) - COMPLETED
- Project outlines for each subteam that feeds into the LR team – IN PROGRESS
- National indicators reporting (Nov. 15, 2014; week prior to Region) - COMPLETED
- Report to Roundtable (September 5, 2014) – COMPLETED
- Reports from Heterogeneity Team - COMPLETED) and Upper Monument Creek (timing TBD) on desired conditions
- Landscape identified in the AR for collaborative planning and implementation (possibly Gilpin, Clear Creek or Boulder Counties) – ON HOLD, MAY NEED TO POSTPONE TO CY15

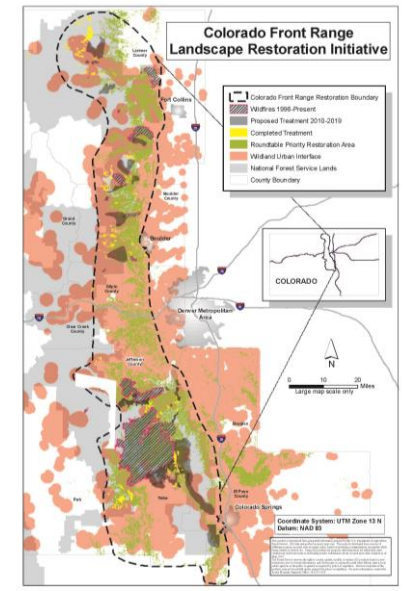
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<p>Scope</p> <ol style="list-style-type: none"> 1. Includes work done by sub-teams: Social & Economic Monitoring Team (Kathie), Wildlife Team (Rick & Lynne), Understory Team (Paula), Spatial Heterogeneity Team (Kristen); Stand Reconstruction Team (Peter); LCC Monitoring (Jenny, closed); Operationalizing Adaptive Management Team (Rob) 2. This LR team is currently only focused on topics related to CFLRP (other than the Spatial Heterogeneity team) 	<p>CY 2015 Deliverables</p> <ol style="list-style-type: none"> 1. Regular meetings: meet in person every other month with phone calls the other months, working around Roundtable meetings (prep meetings); in summer skip meetings for field trips; let the agenda items drive the decision about in-person or webmeeting (Facilator) 2. Summer field trips (end of June / early July) – AR (Dick), PSI (Sara) 3. Annual monitoring jam to analyze different monitoring data (Rob) 4. Annual report (written and oral) to Roundtable on monitoring results and whether treatments are trending towards desired conditions (Tony?) 5. Project outlines for each sub-team that feeds into the LR team (Paula, Rob, Peter, Kristin)– IN PROGRESS 6. Report from Upper Monument Creek on monitoring and adaptive management (Rob) 7. Landscape identified in the AR for collaborative planning and implementation (possibly Gilpin, Clear Creek or Boulder Counties) (Mark) 8. Agreement on how to refine our measures and methods for reporting on national indicators (next due 2019) (Jeff?) 9. Hold a joint meeting between the LR and the Community Protection team to explore what the LR team can do about restoration on non-federal land (Chad to lead with Jonas, Brett) 10. Updated five year budget forecast for CFLRP monitoring (Sara to lead with Tony)
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Landscape Restoration Team: 2013-2014 High Level Work Plan

Mar 8, 2013: Q1 Roundtable meeting

May 31, 2013: Q2 Roundtable meeting

Sept 13, 2013: Q3 Roundtable meeting

Nov. 22, 2013: Q4 Roundtable meeting

Jan-Mar, 2013

Apr-Jun, 2013

Jul-Sep, 2013

Oct 2013 – March 2014

Jan. 9, 2013: Report on results from historic reconstruction research at Hall & Heil Ranches

April-Dec: Review data in order to agree on extent to which CFLR treatments from 2011 and 2012 are on trend towards meeting objectives

Moved to current plan

Jan. 9 – Feb. 13, 2013: Agree on recommendations to Roundtable on adaptive management process

April: Review GTR PPT

May - July: Define assumptions and uncertainties in CFLR project

Sept – Oct: Flood and Gov't shutdown

Nov 13: Devote monthly meeting to national indicators

Jan 15: Report on new LCC Monitoring findings?

Feb 19-20: Hold field trips to Long John & Waldo (UMC)

Nov 13: Report on 2012 social & economic monitoring

Jan 15: Report on spatial heterogeneity

Feb-May: Plan ARP and PSI field trip sites

July 9 (AR), & 11 (PSI): Hold field trips to ARP treatment sites

Nov. 13: Form a CSE Report sub-team to agree on a standard report and methods

Dec 11: Update from Wildlife team

March 13: Report on LCC monitoring results

May 31, 2013: Propose recommendations to Roundtable on adaptive management process

March 13: Report on CSE results

April-May: Write more detailed description of adaptive management process

Sept 11: Decide if adaptive management model ready for publishing as a report to CFLR

- Deliverable or decision point
- Completed
- On track
- Needs attention
- Tentative

April-Sept: Apply adaptive management process to UMC (and working through all the other subgroups listed under scope) (Rob & Paige)

Moved to current plan



Landscape Restoration Team: H2-2014 High Level Work Plan

April 2014

2015-2020

Summer 2014: Field trip to the Echo/Beaver project area

June-July 2014: Field Trips

Late Oct: Report to the Roundtable on plans for national indicators

Nov 2014: Report on national indicators (except watershed)

June 2014: Review GTR draft

Sept 11: Decide if adaptive management model ready for publishing as addendum to CFLR Monitoring Plan

Oct. 2014: Present at IUFRO/SAF/CFI conference (Yvette)

Dec. 2014: Agree on recommended changes to treatment designs, if any (in time to influence summer 2015 treatments)

June-August 2014: Data analysis for the heterogeneity project

End Nov. 2015: Report published on desired conditions from heterogeneity project

May-July 2014: Plan out how to identify the landscape in the AR for collaborative planning and implementation (possibly Gilpin, Clear Creek or Boulder Counties)

April-Dec: Review data in order to eventually agree on extent to which CFLR treatments from 2011 and 2012 are on trend towards meeting objectives

April-Sept: Apply adaptive management process to UMC (and working through all the other subgroups listed under scope) (Rob & Paige)

Date TBD: Agree on “desired conditions” based on learnings from monitoring and research efforts underway (since 2011-2013):

LR Sub-Teams

1. A wildlife monitoring team
2. A spatial heterogeneity monitoring team
3. A social and economic monitoring team
4. Understory team
5. A team conducting Front Range historical forest stand reconstruction network research
6. Operationalizing adaptive management

Projects outside of the LR Team

1. A team focused on designing an adaptive NEPA process for the Upper Mountain Creek forest treatment project on the Pike-San Isabel National Forest
2. A team creating a USFS General Technical Report (GTR) on a science-based framework for forest restoration
3. AR South Zone project

- Deliverable or decision point
- Completed
- On track
- Needs attention
- Tentative



Landscape Restoration Team: CY15 Long Term High Level Work Plan

Feb. 20, 2015: Q1 Roundtable meeting

May 15, 2015: Q1 Roundtable meeting

August 28, 2015: Q1 Roundtable meeting

Dec. 4, 2015: Q1 Roundtable meeting

Q1: January - March

Q2: April - June

Q3: July - September

Q4: October - December

2016-2020

Q1-15: Present to Roundtable results of Social & Economic Monitoring CY13

Jan. 2015: Social & Economic monitoring report published

Jan. 2015: Monitoring report for CY13 published for heterogeneity project

Jan. 2015: Develop a master plan of all monitoring needs and agree on process for budget allocations

April: Hold Monitoring Jam session

June - July: Hold annual field trips (AR and PSI)

Dec: Agree on refreshed definition of restoration (based on Kristen's paper, rebuttal to Sherif)

-  Completed
-  On track
-  Needs attention
-  Tentative



Proposed CFLRP Monitoring Budget

Year	Understory Round 1 (Round 2)	Wildlife	Common Stand Exam (CSE Data Collection, Forest Resources)	CFRI (Includes CSE Data Analysis, Spatial Heterogeneity, Landscape Scale, Modeling, National Indicators, Social/Econ)*	Total
Lead contact	Paula Fornwalt	Lynne Deibel	Dick Edwards (with Jeff Underhill)	Tony Cheng?	Sara Mayben?
2015	\$90k	\$0	\$60k	\$65k	\$215k
2016	0	\$100	\$60k	\$65k	\$225k
2017	\$90k	0	\$60k	\$65k	\$215k
2018	0 (\$45k)	\$100	\$60k	\$65k	\$225k (\$270k)
2019	0	\$0	\$60k	\$65k	\$125k
2020	\$90k (\$45k)	\$100k	\$60k	\$65k	\$315k (\$360k)
2021	0	0	\$60k	\$65k	\$125k
2022	0	\$100k	\$60k	\$65k	\$225k
2023	0 (\$45k)	\$0	\$60k	\$65k	\$125k (\$170k)
2024	\$90k	\$100k	\$60k	\$65k	\$315k



LR Meeting Planned Agenda Topics

December 10
Jeff Co Taj

1. Discussion on restoration on non-Federal lands (Brett, Paige [UFC?], Joseph [Jefferson County])
2. Socio-Economic results (Kathie)
3. Spatial Heterogeneity results (Kristen)

January 2015
Jeff Co Taj

1. Follow up on creating an addendum to the CFLR monitoring plan for adaptive management after Dec 17 meeting (Rob, Jenny?)
2. Long term funding strategy for sub-team fundraising
3. Monitoring data on private lands (Brett Wolk – 15 min)

February 2015
(GoToMeeting)

1. Debrief from National indicators to plan how to do better monitoring (Mark and small team)
 1. Socio-Economic results continued (Kathie)
 2. How to apply AM to non-CFLR work? (Greg Aplet)
 3. Spatial heterogeneity monitoring report (Kristen), also talk about restarting landscape scale SH group– 45 min
 4. Work planning for CY15 (Gali) – agree on deliverables and milestones
 5. Tentative: mastication results (Brett) – 15 min

March 2015
(GoToMeeting)

1. Plan how to reach agreements on changes to the methods for national indicators (including watershed) - Jeff
2. Agree on agenda for monitoring jam session (15 minutes) - Rob
3. Coordinate on getting CSE data for the jam session – Kristin
4. Monitoring funding progression (Sara)



LR Team Next Steps from the 02-11-15 meeting

(Slide 1 of 2)

Landscape Scale Spatial Heterogeneity Group

Kristin

- Add to team – Casey, Peter, Mark, Dick, Jonas, Rob, Damian; also ask everyone else in an email if they are interested in restarting team.

Spatial Heterogeneity Team:

- Discuss definition of “landscape” (e.g., certain watersheds – 12 digit HUCs?) and define zone of influence of treatments (aka “return on investment” multiplier) – untreated areas that benefit from treated areas (use fire behavior modeling to quantify?) and then bring input to jam session.

Proposed CFLRP Monitoring Budget

All Subteam leaders

- Go back and look at the monitoring protocols/analysis to see if budgets can be reduced, efficiencies could be gained, monitoring could happen every other year, etc....
- Think about how we prioritize the use of year end and carryover funds towards monitoring.

Rob

- Add to agenda for monitoring jam session determine how many CSE plots needed, when, where, how many, tied to understory and wildlife, etc? How can we streamline efforts to cut down costs? Are there efficiencies we can gain in the common stand exam, analysis of data, etc.....Also add to agenda that we need a plan for how to coordinate site selection.

Mark

- Let Tony, et al know how much flexibility we have in timing for getting these budget forecasts settled – give team deadline (esp. for CFRI); talk to Sara about the shared PSI/AR pot of money and how to fund the understory team (the only team that doesn't have any indication right now) – bring results of conversation to March LR team call or sooner

Dick

- Ask Dave Hattis and Jeff Underhill if it's feasible under current contract to select CSE treated units to monitor based on needs of understory and wildlife team (same place we collected pre-treatment data). Give Paula understory team the plot locations of current CSE plots so they can do their monitoring.



= Completed



= On track

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= Needs attention



= Deferred

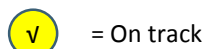
LR Team Next Steps from the 02-11-15 meeting

(Slide 2 of 2)

Monitoring Jam Session

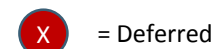
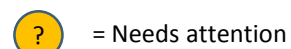
Rob

- Add discussion to the agenda of the jam session: How can we roll the data on trees, fuels, etc into a direct statement about fire regime condition class (FRCC) change.



Front Range Roundtable

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LR Team Next Steps from the 01-14-15 meeting

(Slide 1 of 2)

CFLRP Monitoring Budgets

1. **All monitoring sub-team leaders (Paula, Lynne, Dick?, Tony?):** 1) For next meeting Sara has made table with all monitoring activities and costs by year, look at table and see where we can reduce data collection or reduce certain activities. Come to February meeting with ideas how to make Sara's expanded table meet 200k yearly funds work for all groups. 2) Also based on Lynn's suggestion make plan for year end fund allocation. 3) think about monitoring strategy and how it fits into adaptive management. When do we need to know certain metrics in order to adjust treatments?

Adaptive Mgmt

Rob

1. Revise doc based on 12/17 mtg (more info on integration among monitoring)
2. Further develop "change mechanism" beyond developing reports and recommendations. What would potential changes look like and how would they be implemented?
3. Publish revised draft as a CFRI whitepaper / addendum to the CFLRP monitoring plan or Aplet et al.'s Adaptive Management document
4. Schedule and prepare for this spring's monitoring jam session

Kristen

1. Prepare data analysis for monitoring jam session

Jenny

1. With Kristen, write guidance document for the different monitoring reports, so that they are more consistent and can be aggregated into one report

Tony

1. As part of 2015 Social & Economic contract, interview Dick Edwards and Sara Meyer to document the results to date of the adaptive management process – what changes has the USFS made based on LR team recommendations? (e.g., going from single trees to clumps)



= Completed



= On track

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= Needs attention



= Deferred

LR Team Next Steps from the 01-14-15 meeting

(Slide 2 of 2)

Terra:

- ✓ 1. Cancel Feb Jeffco meeting room (due to monitoring jam session) – March will still be a gotomeeting;
- ✓ 2. Add to Feb LR agenda that Kristen will bring the spatial heterogeneity monitoring; also add that Gali will lead work planning for CY15
- ✓ 3. Check RT agenda for 2/20 to see if room for spatial heterogeneity (waiting until May)
- 4. Log today's attendance and mileage: Jeff (5), Mark (70), Dick, Gali (30)n, Chad (30), Kristen (70), Jenny (5), Jonas, Rob, Brett, Tony, Paula (phone)
- 5. Add to LR team attendance slide (since August)
- ✓ 6. Request and post Brett's PPT from today's meeting, same with Rob A
- ✓ 7. Fill in locations for WWT meetings on calendar

Private Lands

Brett

- 1. Research distribution of size of projects in DNR grant program (by acres) – this is a long term goal! (2 years out)

Kristen

- 1. Reconvene the spatial heterogeneity group and discuss incorporating private lands treatments into model

"Agreements and Challenges for Front Range Forest Restoration"

Kristen

- 1. Write "Roundtable refresh" on what restoration means (as input into the overall recommendations refresh process) – by end of CY15

Jenny

- 1. Write second draft rebuttal to Sherif paper, share with team (keep it pointed and short) - methods (technical) rebuttal to Sherif paper to publish on "Plus One" (outside of LR team) – with Paula, Jenny & Mike; decide who would lead – maybe Chad's post-doc Wade? Yvette interested in participating (but can't be lead)

Rob

- 1. Ask Paige about if/how to start/fund the "recommendations refresh" team



= Completed



= On track

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= Needs attention







= Deferred

LR Team Next Steps from the 12-10-14 meeting



OTHER

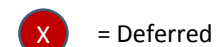
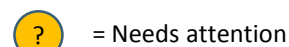
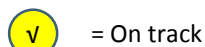
Terra

-  Add Kristen's white paper to the 2/20 Roundtable agenda (if it's to be published as a Roundtable statement)
-  Change January LR meeting to in-person
-  Add Brett's monitoring data to January agenda
-  Add Kathie's SocioEconomic report to January meeting

PAPER "Agreements and Challenges for Front Range Forest Restoration"

Kristen

-  Get comments back by Friday 12/19
-  Send out a Doodle for a GoTo Meeting to discuss the paper



LR Team Next Steps from the 10-21-14 meeting

Adaptive Management:

- ✓ **Rob** – hold a meeting to revisit Operationalizing Adaptive Management with Jenny, Greg, Rob, Kristen, Jeff, Dick, Sara to create a guiding document/protocol to post to website. Send Terra and Gali the document.

National Indicators:

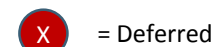
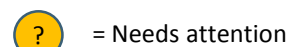
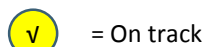
- ✓ **Rob** – Send Mark and Jeff relevant CFRI publications for our five-year report
- Terra** –
 - Add to Feb agenda, debrief on National Indicators, and plan how to do better monitoring
 - Send Mark hours/people days/mileage for October 2013-October 2014 – and send all the sub-teams a reminder!
 - Send Dick and Mark our list of references that we came up with on the Metrics team (see website under the Metrics team).
 - Send an email to the Roundtable cancelling Monday's special NI meeting. We will send the Roundtable the report, and give 2 days to the Roundtable on October 29; they will have until COB October 31 to send any feedback, edits, etc.

Restoration on non-Federal Lands topic:

- ✓ **Brett** – Present this topic at the December LR team meeting. Discuss coordinating across boundaries and info-learning transfer.
- ? **Terra ask Paige** – Can she present on Upper Fountain Creek.
- ✓ **Joseph** – Present on JeffCo landscape restoration at December LR meeting/ coordinate a field trip.
- ✓ **Terra** - Add to scope of LR team, in 2015 this team will look at non-Federal lands for forest restoration. I.e. DNR grants for non-federal land; ½ of that money is going to the Front Range because it's WUI-specific. Opportunity to learn from one another and coordinate work.




OTHER

- ✓ **Terra**
 - On High Level Work Plan, move the GTR draft review from June 2014- to 2015
 - Add box that Kristen is working on a response to the paper that came out (controversial)
 - Add to November meeting – Kristen to have a paper ready to share with LR team
 - Add to December LR meeting – Socio Economic data (30-45 mins)
 - Add to December LR meeting – Spatial Heterogeneity














LR Team Next Steps from the 9-10-14 meeting






Kirsten

-  Review Yvette's prior project outline, confirm that it is still current
-  Prepare to present prelim results of Spatial Heterogeneity at next Roundtable meeting 11/14
-  Talk to Sara about contract information for the forests


Terra:

-  Compile the sub team project outlines and keep them in our LR meeting documents for future reference (let team leaders who have not submitted outlines know that they deadline is end of CY14)
-  Plan special meeting (online – 1.5 hour) for the Roundtable to review/approve/refine the national indicators results that will be submitted to the region by 11/7 (after 10/24 but before 11/5) (10/28-30 not available) – required to schedule around: **Mark, Erin, Glenn, Sara, Dick, Jeff, Paula, Kristen, Rick or Lynne or Jenny (wildlife)** - confirm RSVPs so that we know if we can use gotomeeting (max 18 ppl)
-  Remind LR team on importance of attending 10/22 meeting to review/approve/ refine the national indicators results
-  Put on LR agenda for October meeting
 -  National indicators (most of the time: 3.5 hours)
 -  IF TIME: Long term funding strategy for sub-team fundraising (1 hour)
-  Ask sub group leaders to come to 10/22 meeting with proposed long-term plans and funding needs
-  Put on LR agenda for November meeting (add to October if we go quickly on national indicators)
 -  Long term funding strategy for sub-team fundraising
 -  a quick discussion about whether we need an addendum to the CFLR monitoring plan for adaptive management (if Jenny will be there)
 -  if/how adaptive management is being applied to UMC (make sure Paige can attend)

Mark:


-  Share national indicators results with LR team at October 22 meeting
-  Coordinate with presenters on national results on what they need to present at the 10/22 LR meeting (and the follow on special meeting for the Roundtable)
-  Include Kathie Mattor in the National Indicator meetings/conversations
-  Mark look for the 2013 annual report and send to Terra to post to the website
-  Talk to Mary about updating the 2009-2013 map with the pre-2009 map; including the fires. Include the roadless rules area boundary.

Jonas:

-  Send the group information about a possible field trip to see some of the NRCS's and Jefferson County Conservation District sites that have been recently restored.




 = Completed

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 = Needs attention

 = Deferred

LR Team Next Steps from the 8-13-14 meeting



National Indicators

- **Lynne & Jenny** – Provide a narrative of the Wildlife team process.
- **Rob & Paula** – Meet and fill in missing FY13 data for 8/22 meeting
- **Kristen & Rob** – Meet and discuss any loose ends that Kristen can take over.



Long-term budgeting master plans of sub-teams

- **Terra** – Add to LR October meeting agenda – make sure we have representation from each sub-team .
- **Kristen** – talk to Brett and Paula to make sure they can have something by October.



Administrative

- **Terra** – Change October meeting to October 22 – email the LR team
- **Jeff** – Look at booking a conference room at the RO (let Terra know)



9/5 Roundtable Meeting

- **Rob** – Present an update/overview of the LR reports that have been developed this year.
- **Casey** – Present Wildlife team work.



11/14 Roundtable Meeting

- **LR Team** – Present a more detailed update of the LR team including the CSE and Spatial Heterogeneity work
- **LR Team** – Present an overview of the National Indicators report
- **Rob & Paige** – Bring up revising recommendations at the Roundtable and gauge interest.



Ecological Monitoring Report

- **Rob** – finish up this year's CSE data.



Echo/Beaver project

- **Terra** – Post presentation for the group.
- **Jeff** – Talk to Sara about expectations.



8/20 PSICC Field trip

- **Jeff** – Send agenda by 8/14.
- **Kristen, Jeff, and Rob** – Coordinate handouts for the field trip (aerial photos, prescriptions, pre- and post-treatment data, contracts).
- **Terra** – Send headcount to Jeff, Kristen and Rob so they can print materials.



= Completed



= On track

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= Needs attention



= Deferred

LR Team Next Steps from the 6-11-14 meeting

• Ecological Monitoring Reports:

- **Rob, Yvette and Jenny** make Tier 2 Wildlife and Ecological Monitoring reports consistent and start thinking about making these one report or individual reports toward desired conditions
- **Rob** Include a summary of the jam session
- **Rob** send report out to the LR team for review before the 8/13 LR meeting
- **Rob** Present an update at the 9/5 Roundtable meeting
- **Wildlife team** – Provide narrative
- **Yvette** – Check with Emma if she can also present at the Roundtable
- **Terra** – put this on the Roundtable 9/5 agenda

• Adaptive Management Process

- **Rob** send Terra the final PowerPoint
- **Terra** post to website
- **Rob – Kristen** - make hard copies for the 9/5 Roundtable

• National Indicators

- **Rob and Jenny** – Send Mark Monitoring jam session info and Wildlife use data from the treated plots for the report
- **Mark** - Bring back to the LR team and get group's input/perception
- **Mark** - Ask Lauren (or whomever) to review our answers after July 22 meeting

• Field trip:

- **Rob** to create a questionnaire for feedback of the attendees
- **Rob** to get the *large aerial treatment imagery to show big picture*
- Vans reserved
- **Tony** to reach out to Congressional staff
- **Mark** to invite the district folks and contractors

• Sub-team budgeting:

- Talk about this at the 8/13 meeting



= Completed



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= Deferred

LR Team Next Steps from the 5-14-14 meeting

- **Terra:**

-  Put old SM, CFLRP, Process, Metric team documents on the “Open” teams LR page
-  Put monitoring jam session results on June LR team agenda
-  Post Yvette’s CLFPR plan addendum
-  Send field trip doodle every weekday from last week of June to 3rd week of August – need 2 days

ADAPTIVE MANAGEMENT MODEL AND PAPER

- **Rob:**

- Send clean formatted AM narrative to team for final review – give team until next meeting to give final feedback
- Finalize AM PPT (both combined and two-part versions) – send to Terra to post on RT webpage
- Send Terra poster file to put on website

IUFRO/SAF/CFI CONFERENCE

- **Yvette:**

- Draft presentations and circulate to team for input (Sept)
- Get feedback from silviculturalists on the team re: the abstracts

STAND RECONSTRUCTION

- **Peter:**

- Finish data dating (Nov), finish data analysis (May 2015),
- Revise and resubmit paper for peer review (July 2014)

MONITORING JAM SESSION

- **Rob:** Finish data analysis based on input from jam session; develop draft report to share with LR team (June 2014)

SPATIAL HETEROGENEITY

- **Yvette:**

- Send Terra addendum to monitoring plan
- Send Terra definition of spatial heterogeneity for project outline

CSE

- **Jeff:** Update CSE contract based on today’s proposal

NATIONAL INDICATORS

- **Mark:** Form subteam to work on national indicators (Rob, Yvette [as available], recruit Paula, Jeff, Sara, Dick) – schedule first meeting for early June
- **Lynne:** ask wildlife team at 5/29 meeting if/how the wildlife team should contribute



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LR Team Next Steps from the 4-2-14 meeting



• Terra:

- Add to the Quarterly 4/11 meeting agenda a discussion about the budget and fundraising

ADAPTIVE MANAGEMENT MODEL AND PAPER



• Peter:

- Finish animating the AM model (1 page) – 5/14: Rob and Greg have the master PPT now
- Add legend to explain colors on AM model



• Rob:

- Create a clean 2-page AM model in PowerPoint
- Start thinking about making this a poster size diagram?
- Add to OAM agenda a discussion on the budget; 5/14: will do at a future OAM meeting



• Greg:

- Finish your review of the AM paper



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= Needs attention



= Deferred

LR Team Next Steps from the 3-12-14 meeting

• Terra:

- ✓ • Send each team leader the planning outline and ask them to fill in
- ✓ • Send out a vote to whole team to ask if they want one AM model (Peter's version) or keep them separate (show Rob's PDF version)

ADAPTIVE MANAGEMENT MODEL AND PAPER

• Peter: (if decision is made to combine into one AM model)

- ✗ • Add legend to explain colors on AM model
- ✓ • Add animation to PPT slide?

• Greg: do final review of AM paper; make changes to make it clear that the AM model is the guiding framework for how to do restoration in the Front Range (change title and areas of the document where needed: "this is our process for collaborative implementation of forest restoration on the Front Range and we are following an adaptive management process for doing it")– March 31

• Rob:

- ✓ • Add to OAM deliverables an "addendum to the CFLR monitoring plan" that outlines for practitioners how to do Adaptive Management: Need instructions (calendar) on how to implement adaptive management: every [month] this should be done, and every [different month] that will be done. Include national indicators timeline and other reporting timelines. This is what the OAM team is going to do.
- ✓ • Insert pictures, citations, etc. to AM paper, then send to team for additional review – April 12
- ✗ • When AM paper "done", send to Terra to post on website and print some hard copies for distribution at 8/29 RT meeting

• Peter: do final review of AM paper – May 12

• Terra: final proofread of AM paper – June 12



= Completed



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= Needs attention







22






= Deferred

LR Team Next Steps from the 2-12-14 meeting


National indicators:

-  **Jeff:** talk to Lauren (WO) about need for qualitative assessments in national indicators (consider writing preamble about “what’s going on” in terms of our data collection and research before national indicators results), by March 12 (Jeff can bring up on conf call he sits on for Jim Thinnes – Hal & Sara should sit in on next call) 3/12: Lauren out of office for next 3 weeks
-  **Rob:** run FVS model to show if fire regime likely to have been changed (using CSE data pre- and post), by May 12, maybe 4/22 (Jam session)
-  **Mark:** take over from Hal on redefining CFLR project-level “HUC 6” (Mary producing – in progress); Hal needs to talk to Mary about the methods; also continue working with Mary on redefining landscape-level by focusing only on PP/MC (discuss with Hal), by March 12
-  **Hal:** set up meeting with Mary to talk about watershed analysis, by Feb 19
-  **Hal:** Send Terra the additional National Indicators document to post to website.
-  **Rob:** look into who can do FLAMMAP modeling for us, by March 12, maybe Meg Matonis; need to figure out best path, will do at Jam sess.


Wildlife Team

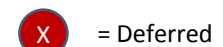
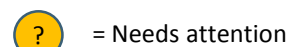
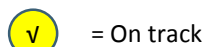
-  **Sara:** discuss with **Hal, Mark, and Jeff** what the total CFLR monitoring budget can be and what might be the available budget for wildlife monitoring (after final CFLR money allocated), by April 12
-  **Lynne:** use \$100k ballpark estimate to begin writing agreement with RMBO, talk through scenarios with RMBO, give heads up that final budget won’t be known until after April 12
-  **Rob:** Ask Tony about potential for any changes to summer field work on understory monitoring by March 12

OAM Team

-  **Rob:** Schedule jam session, possibly focusing on CSE data for this year, set a date for April by March 12

General

-  **Terra:** ask Paige if she can do the 3/12 gotomeeting for updates on UFC and UMC, add to March agenda: national indicators, understory update (Terra to check with Paula on if she’s ready to present in march, and if so we need to meet in person); also discuss future of AM diagram paper (will present at 4/11 Roundtable)



LR Team Next Steps from the 1-23-14 meeting

1. **Paula:**
 - ✓ a. Schedule the next understory team meeting before the next LR meeting on 2/12 (meetings ~2 times/month at this point)
 - ✓ b. Send Terra team member list
 - ✓ c. Send meeting notes to the team
 - ✓ d. Send any meeting materials from today's meeting to Terra to post to website
2. ✓ **Hal:** Estimate acres of PP in CFLR landscape; figure out what watershed boundaries encompass the project area and how many acres that is (use HUC-6, same as Spatial Heterogeneity team) – February meeting?
3. ✓ **Mark:** Please check with Hal on above next step
4. **Rob:**
 - ✓ a. Finish compiling outcomes for the “operationalizing adaptive management” meeting
 - ✓ b. Send outcomes to the LR team before the next meeting
 - ✓ c. Facilitate discussion, and decide whether to make the AM paper and addendum to the CFLR monitoring report, or a stand alone report
 - ✓ d. Send any meeting materials to Terra to post to website
5. ✓ **Venny:** Keep working on LCC report; send final report to the LR team; 5/14: sent PPTs to LCC team, working on final report now
6. ✓ **Vette:** Send spatial heterogeneity presentation from today's meeting to Terra to post to website
7. **Terra:**
 - ✓ a. Post 1/23/14 meeting materials to the LR page of the website
 - ✓ b. Make the 3/12 meeting a phone meeting; cancel JeffCo meeting space
 - ✓ c. Confirm speakers for the February in person meeting, March phone meeting, and April in person meeting
 - ✓ d. Change the April meeting from 4/9 to 4/2
 - ✓ e. Update calendar slide for LR team



= Completed



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= Needs attention

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= Deferred

Roundtable Landscape Restoration Team— Contacts

Full Name	Organization	Title	Address	City	State	Postal Code	Work Phone	Cell Phone	Email1	Attended LR meetings past year
Rob Addington	Colorado State University			Ft. Collins				970-449-2049	rob.addington@colostate.edu	Yes
Greg Aplet	The Wilderness Society	Senior Forest Scientist	1660 Wynkoop Street, Suite 850	Denver	CO	80202	303-650-5818 x104	720-244-2083	greg_aplet@twrs.org	Yes
Mike Battaglia	US Forest Service, RMRS	Research Silviculturalist	240 West Prospect Road	Fort Collins	CO	80526	970-498-1286	970-420-7830	mbattaglia@fs.fed.us	Yes
Gali Beh	Beh Management Consulting, Inc.	Front Range Roundtable Facilitator	637-B South Broadway, #134	Boulder	CO	80305	303-499-1576	303-514-2375	gali@behconsulting.com	Yes
Jenny Briggs	US Geological Survey	Research Ecologist	DFC Building 810	Lakewood	CO	80225	303-202-4078	303-518-0925	jsbriggs@usgs.gov	Yes
Peter Brown	Rocky Mountain Tree-Ring Research	Director	2901 Moore Lane	Ft. Collins	CO	80526	970-229-9557	970-310-9432	pmb@rmtrr.org	Yes
Jonathan Bruno	Coalition for the Upper South Platte	Director	PO Box 726	Lake George	CO	80827	719-748-0033	303-588-9824	jonathan@uppersouthplatte.org	No
Evan Burks	USFS-PSICC	Partnership Coordinator					719-553-1520		ejburks@fs.fed.us	Yes
Tony Cheng	Colorado State University	Associate Professor, Dept. of Forest, Rangeland & Watershed Stewardship	131 Forestry Building	Fort Collins	CO	80523-1472	970-491-1900	Skype: chengt714	tony.cheng@colostate.edu	No
Casey Cooley	Colorado Division of Parks and Wildlife	Montane/Forest Habitat Coordinator	4255 Sinton Road	Colorado Springs	CO	80907	719-227-5227	719-660-1427	Casey.Cooley@state.co.us	Yes
Lynne Deibel	US Forest Service, ARP	Forest Wildlife Biologist	2150 Centre Avenue, Building E	Fort Collins	CO	80526	970-295-6638	970-420-1670	lcdeibel@fs.fed.us	Yes
Yvette Dickinson	Colorado State University	Assistant Professor	132 Forestry, Colorado State University	Ft. Collins	CO	80532	970-491-7580	814-308-3181	yvette.dickinson@colostate.edu	Yes



Roundtable Landscape Restoration Team— Contacts

Full Name	Organization	Title	Address	City	State	Postal Code	Work Phone	Cell Phone	Email1	Attended LR meetings past year
Rich Edwards	Colorado State Forest Service	Assistant Staff Forester	Colorado State University 5060 Campus Delivery	Fort Collins	CO	80523	970-491-8036	970-213-8619	Rich.Edwards@colostate.edu	No
Richard (Dick) Edwards	US Forest Service, Canyon Lakes	Fire, Fuels, Timber Staff	2150 Centre Avenue, Building E	Ft. Collins	CO	80526	970-295-6760	970-219-5967	rsedwards@fs.fed.us	Yes
Jonas Feinstein	Natural Resources Conservation Service	State Forester	DFC Building 56	Lakewood	CO	80225	720-544-2839	970-218-8364	jonas.feinstein@co.usda.gov	Yes
Paula Fornwalt	US Forest Service, RMRS	Research Ecologist	240 West Prospect Road	Fort Collins	CO	80526	970-498-2581	970-420-8276	pfornwalt@fs.fed.us	Yes
Hal Gibbs	US Forest Service, ARP	Ecosystems Group Leader	2150 Centre Avenue, Building E	Fort Collins	CO	80526	970-295-6630	970-222-2288 Cell/970-203-0120Home	hdgibbs@fs.fed.us	Yes
Chad Julian	Boulder County	Lead Forester	5201 St. Vrain Road	Longmont	CO	80503	303-579-8419		cjulian@bouldercounty.org	Yes
Don Kennedy	Denver Water	Environmental Scientist	1600 West 12th Avenue	Denver	CO	80254	303-628-6528	720-272-3685	don.kennedy@denverwater.org	No
Terra Lenihan	Beh Management Consulting, Inc.		350 Coral Street	Broomfield	CO	80020	303-499-1576	303-709-4774	terra@behconsulting.com	Yes
Paige Lewis	The Nature Conservancy	Director of Forest Restoration and Fire	2424 Spruce Street	Boulder	CO	80302	303-817-8648	303-817-8648	paige_lewis@tnc.org	Yes
Mark Martin	US Forest Service, Boulder		2150 Centre Ave	Ft. Collins	CO			303-245-6409	mlmartin@fs.fed.us	Yes
Kathie Mattor	Colorado State University	Graduate Research Assistant	131 Forestry Building	Fort Collins	CO	80523-1472	970-402-1206	(970) 402-1206	katherine.mattor@colostate.edu	Yes



Roundtable Landscape Restoration Team— Contacts

Full Name	Organization	Title	Address	City	State	Postal Code	Work Phone	Cell Phone	Email1	Attended LR meetings past year
Sara Mayben	US Forest Service, PSICC	Renewable Resources Staff Officer	2840 Kachina Drive	Pueblo	CO	81008	719-553-1400	719-395-9432	smayben@fs.fed.us	Yes
Kristen Pelz	Colorado State University	PhD Student	2400 Evergreen Dr.	Fort Collins	CO	80521	303-859-0892	303-859-0892	kapelz@gmail.com	Yes
Claudia Regan	US Forest Service-Region 2	Regional Vegetation Ecologist	740 Simms	Lakewood	CO	80401	303-275-5004	970-290-9895	cregan@fs.fed.us	Yes
Rocky Smith	Private citizen							None	2rockwsmith@gmail.com	No
Diane Strohm	US Fish & Wildlife Service	Natural Resource Manager / Forester	4220 Turner Road	Monument	CO	80132	719-333-3308	719-338-5646	diane.strohm.1@us.af.mil	Yes
Richard (Rick) Truex	US Forest Service, R2	Regional Wildlife Ecologist	740 Simms	Lakewood	CO	80401	303-275-5022	720-425-2998	rtruex@fs.fed.us	Yes
Jeff Underhill	US Forest Service, PSICC	Forest Silviculturist	2840 Kachina Drive	Pueblo	CO	81008	719-553-1513	719-553-7407	junderhill@fs.fed.us	Yes
Brett Wolk	Colorado State University								Brett.Wolk@colostate.edu	Yes
Nick Young	Colorado State University								Nicholas.Young@ColoradoState.edu	Yes

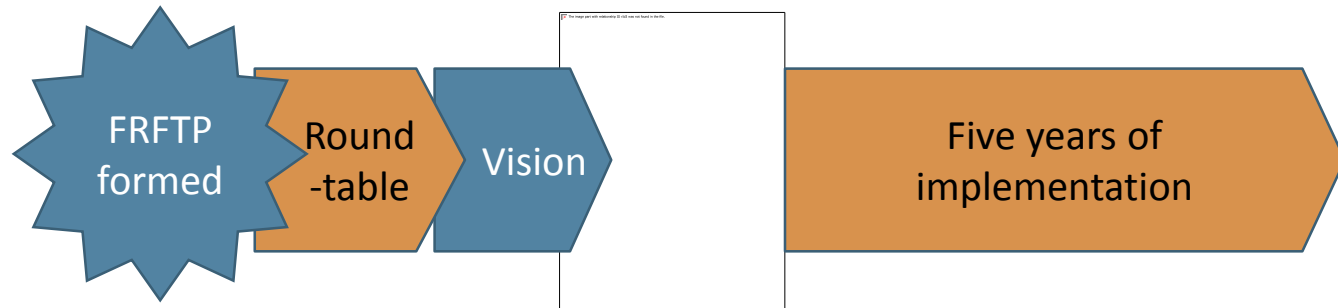
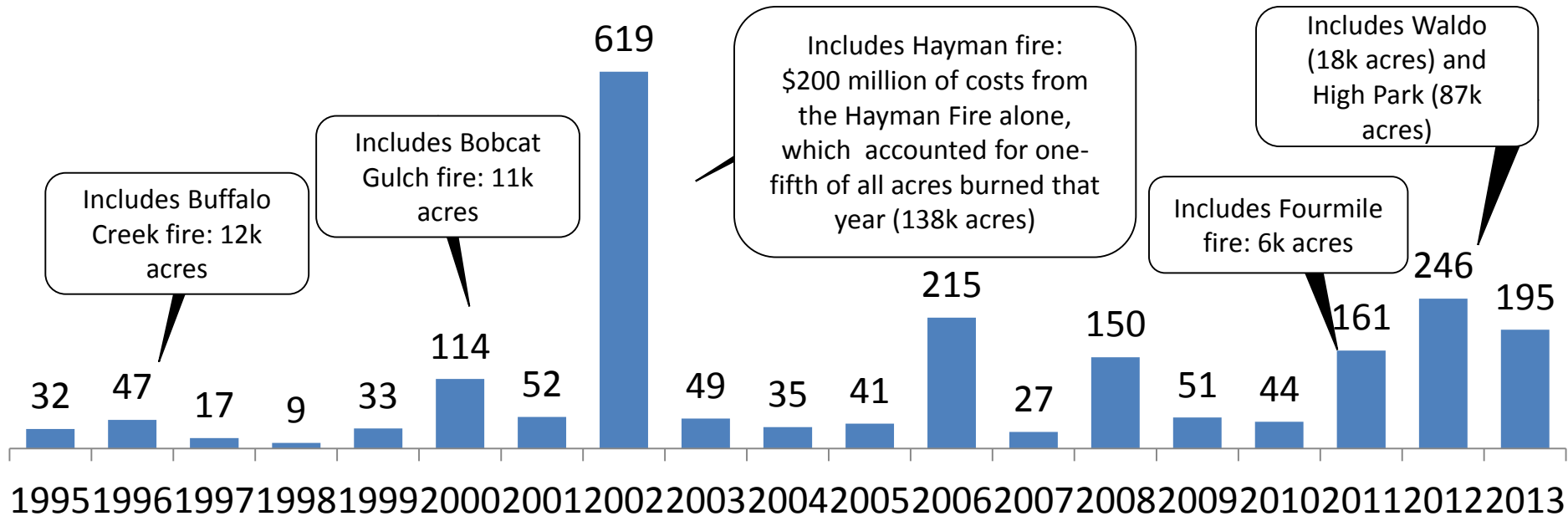


Roundtable Landscape Restoration Team— Attendance (1 Way Mileage)

Full Name	Attended 11/13/13 Meeting	Attended 12/11/13 Phone Meeting	Attended 2/12/14 Meeting	Attended 3/12/14 GoTo Meeting	Attended 4/2/14 Meeting	Attended 5/14/14 Meeting	Attended 6/17/14 Meeting	Attended 7/23 AR Field trip	Attended 8/13 GoTo Meeting	Attended 8/20 PSI Field trip
Rob Addington	Yes	Yes	Yes (70)	Yes	Yes (70)	Yes	Yes (70)		Yes	Yes
Greg Aplet	Yes	Yes		Yes	Yes (10)					Yes
Mike Battaglia						Yes				
Gali Beh	Yes	Yes	Yes (30)	Yes	Yes (30)	Yes				
Jenny Briggs	Yes			Yes	Yes (3)	Yes	Yes (7)	Yes (30)		Yes
Peter Brown	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes (120)
Jonathan Bruno						Yes				
Evan Burks	Yes	Yes					Yes (114)			
Tony Cheng							Yes			Yes
Casey Cooley			Yes (65)			Yes	Yes (65)	Yes (75)		
Lynne Deibel		Yes	Yes			Yes	Yes		Yes	Yes (120)
Yvette Dickinson				Yes		Yes	Yes (30)	Yes (20)		
Richard Edwards										
Dick Edwards		Yes	Yes	Yes	Yes (70)		Yes		Yes	
Jonas Feinstein	Yes					Yes		Yes (54)		
Paula Fornwalt		Yes		Yes	Yes			Yes		
Hal Gibbs	Yes	Yes	Yes (by phone)	Yes	Yes					
Chad Julian										Yes
Don Kennedy										
Terra Lenihan			Yes (23)	Yes	Yes (23)	Yes	Yes (12)		Yes	Yes
Paige Lewis										Yes
Mark Martin			Yes (70)	Yes	Yes (70)	Yes	Yes (70)	Yes (65)	Yes	Yes
Kathie Mattor	Yes									Yes (120)
Sara Mayben	Yes		Yes (105)	Yes	Yes (113)		Yes (114)			
Kristen Pelz	Yes								Yes	Yes
Claudia Regan										
Rocky Smith										
Diane Strohm	Yes									
Rick Truex	Yes	Yes	Yes (4)		Yes (4)					
Jeff Underhill		Yes	Yes (5)		Yes (5)	Yes	Yes (114)		Yes	Yes
Brett Wolk				Yes	Yes	Yes		Yes (55)		Yes

Colorado's Fire Seasons

Thousands of acres of wildfire per year (Total = 1.9 million acres of wildfire since 1995)



Sources: 1995 – 2010: Rocky Mountain Area and Coordination Center Annual Activity Report (2001-2004); Wildland Fire Activity by Cause, Combining Federal and Non-federal Agencies Within Each State (www.fs.fed.us/r2/fire/oo_annual_report.pdf); 2011 – 2012: http://www.nifc.gov/fireInfo/fireInfo_statistics.html



Progress Towards the Roundtable Vision

Direct Roundtable Successes

1. Launched the self-sustaining **Woodland Park Healthy Forest Initiative** (WPHFI) with seed funds of \$75,000 provided by Roundtable members and partners, which the WPHFI leveraged into an additional \$175,000 in other funding
2. Helped submit a winning proposal to the **Collaborative Forest Landscape Restoration Program** (CFLRP) for an additional \$1 million for Front Range National Forests in FY10, \$3.4 million in FY11, \$3.1 million in FY12, and \$3.8 million *allocated* for 2013.

Partners' successes consistent with recommendations

1. **Long term stewardships contracts:** Arapaho-Roosevelt and Pike-San Isabel (3,000 acres/yr for 10 years)
2. **Increased federal funding for on the ground treatments:** \$1.8 mm more in 2008 than in 2006; \$1 million in 2009 ARRA funds
3. **Biomass utilization:** bioheating in Gilpin, Boulder, and Park counties; planned in El Paso; 22 slash sites for private landowners across Front Range
4. **CWPPs:** 75 Front Range CWPPs approved (out of 151 completed in Colorado)
5. **Policies:** Passage of state legislation authorizing the creation of local Forest Improvement Districts



2015 Roundtable, Landscape Restoration & Wildlife Team Calendar *(dates subject to change)*

Team/Event	Location	Date	Time
Quarterly Roundtable Meeting	USGS, Denver Federal Center	Friday, November 14, 2014	9-3:30
LR Team Monthly Meeting	JeffCo Taj Bldg, 100 Jefferson County Pkwy, Golden, CO 80419	Wednesday, December 10, 2014	10am - 3pm
LR Team Monthly Meeting	GoTo Meeting	Wednesday, January 14, 2015	11:30-3
WWT Quarterly Meeting	USFS-RO	Tuesday, January 27, 2015	10-3
LR Team Monthly Meeting	GoTo Meeting	Wednesday, February 11, 2015	10-3
Quarterly Roundtable Meeting	Colorado Springs	Friday, February 20, 2015	9-3:30
LR Team Monthly Meeting	GoTo Meeting	Wednesday, March 11, 2015	11:30-3
LR Team – Monitoring Jam Session	JeffCo Taj Bldg, 100 Jefferson County Pkwy, Golden, CO 80419	Wednesday, April 8, 2015	10-3
WWT Quarterly Meeting	USFS-RO	Tuesday, April 21, 2015	10-3
LR Team Monthly Meeting	GoTo Meeting	Wednesday, May 13, 2015	11:30-3
Quarterly Roundtable Meeting	Denver	Friday, May 15, 2015	9-3:30
LR Team Monthly Meeting	JeffCo Taj Bldg, 100 Jefferson County Pkwy, Golden, CO 80419	Wednesday, June 10, 2015	10-3
LR Team Monthly Meeting	GoTo Meeting	Wednesday, July 8, 2015	11:30-3
WWT Quarterly Meeting	USFS-RO	Tuesday, July 21, 2015	10-3
LR Team Monthly Meeting	JeffCo Taj Bldg, 100 Jefferson County Pkwy, Golden, CO 80419	Wednesday, August 12, 2015	10-3
Quarterly Roundtable Meeting	Longmont	Friday, August 28, 2015	9-3:30
LR Team Monthly Meeting	GoTo Meeting	Wednesday, September 9, 2015	11:30-3
LR Team Monthly Meeting	TBD	Wednesday, October 14, 2015	10-3
WWT Quarterly Meeting	USFS-RO	Tuesday, October 20, 2015	10-3
Quarterly Roundtable Meeting	Denver	Friday, December 4, 2015	9-3:30
LR Team Monthly Meeting	GoTo Meeting	Wednesday, November 18, 2015	11:30-3
LR Team Monthly Meeting	JeffCo Taj Bldg, 100 Jefferson County Pkwy, Golden, CO 80419	Wednesday, December 9, 2015	10-3

