

| STRATEGY ELEMENT                           | WORK STREAM  | LEAD RESPONSIBILITY | TEAM MEMBERS                                | DEADLINE | COMMENTS (E.G., ROLES, GOALS, METRICS, MAIN ACTIVITIES)   | ACTUAL PROJECT STATUS |
|--|--|---------------------|---|----------|---|-----------------------|
| Goal 1: CFLR Monitoring                    | Report to LR team on 2012 results at LR meeting in early 2013  | Ben Wudtke          |   | 1/31/12  |   | Deferred              |
| Goal 1: CFLR Monitoring                    | Analyze data with SM team members on LCC study   | Ben Wudtke          | Jenny B, Paula                              | 11/30/12 | Ben analyzed overstory tree data from USFS, presented to SM team in Spring; next is for Jenny & Paula to combine understory and wildlife use data with Ben's dataset to find correlations; may make most sense to wait for after-treatment 2012 data; current field season and fire work taking priority; 9/12: need to schedule and hold one big data comparison meeting with all parties; Jenny will check in with Ben (he still needs USFS data) | Deferred              |
| Goal 4: Landscape Conservation Forecasting | Debrief from Paige & Mike's presentation to decide if/how to move forward  | Gali Beh            |   | 8/30/12  |   | Deferred              |
| Goal 1: CFLR Monitoring                    | Recruit new team members: Counties   | Gali Beh            |   | 11/14/12 | 3/13: Jonas to ask Chad Julian (he joined), (6/12) Gali to ask Kathy Andrews, check on other county reps  | In progress           |
| Goal 1: CFLR Monitoring                    | Review the Uncertainties with our CFLRP doc.   | Gali Beh            | All   | 8/14/13  | If you were not at the 6/1/132 mtg add your uncertainties, or a mark by those uncertainties that you agree with. Please use the track changes function, or make your additions/marks in red.  | In progress           |
| Goal 2: Adaptive Management                | Insert Dick's model into your narrative as place holder, until edits received and Dick updates. After you get Jenny's and Chad's edits to the AM narrative, please incorporate and send revised narrative to team by 5/6 so everyone can review it before 5/8 meeting. | Greg Aplet          | Greg, Dick, Jenny, Chad                     | 5/6/13   |   | In progress           |
| Goal 2: Adaptive Management                | Finalize adaptive management process; present to Roundtable; write report that interprets the framework; send narrative to team for feedback; Produce a report of recommendations on adaptive management for CFLR practioners  | Greg Aplet          | Peter Brown                                 | 5/10/13  | 8/8: already started, will send to SM team for review; 9/12: will send to Greg for review by 9/20; Presentation scheduled for 05/04/12 RT mtg.; 9/12: will present narrative to LR team on 10/10 then to the Roundtable at Dec. Q4-12 meeting   | In progress           |
| Goal 3: Monitoring Plan Revision           | Review Implementation Monitoring diagram and be prepared to discuss at our next meeting.   | Greg Aplet          | Greg, Dick                                  | 8/14/13  | Dick, please call Greg to discuss this further and be prepared to discuss at our next meeting.  | In progress           |
| Goal 2: Adaptive Management                | Work with new team on adaptive management paper for publication; tell Gali what deadline you'd like to shoot for to have a first draft for the team to review  | Greg Aplet          | Peter, Tony, Jonas, Claudia                 | 12/31/13 |   | Ready to start        |
| Goal 5: GIS Information Sharing            | Find someone to help move CFLR GIS data (and corresponding map) to USGS data sharing site  | Hal Gibbs           |   | 10/31/12 | 8/8: Mark Martin to check with Hal on progress; 6/12/13: Hal thinks it's on Roundtable FTP site (Terra to confirm site is working, Terra to send Hal login info. (Terra learned that GoDaddy reset our FTP site and lost our files)   | Ready to start        |
| Goal 1: CFLR Monitoring                    | Get more specific on recommendations for 2012 - decide which CFRI recommendations to implement; enter into new agreement for more S&E monitoring; find out what help Kawa and Julie can provide; finalize SOW by march 2013  | Hal Gibbs           |   | 3/31/13  | 4/10: Is Tony working on SOW? Use 2012 monitoring plan as basis for SOW (addendum posted); Kathie to check with Tony on SOW progress and timing; 6/12: Hal says agreement being updated; financial plan is with CSU financial folks now, may not get out by end of month; will modify end of agreement date to access remaining funding after June (Tony requested no funds date extension)   | In progress           |
| Goal 1: CFLR Monitoring                    | Look into costs of getting post-treatment aerial imagery of LCC sites  | Hal Gibbs           |   | 4/10/13  | Will allow Yvette's team could analyze spatial heterogeneity; 6/12: Hal looked into costs but not sure if funding still available; CFLR funding down by \$200,000 (got \$3.8 million instead of \$4 m); Hal will talk to Yvette about this  | In progress           |
| Goal 1: CFLR Monitoring                    | Modify end of agreement date to access remaining funding after June, for CFLR monitoring funding   | Hal Gibbs           |   | 8/14/13  | Hal to look into this   | Ready to start        |
| Goal 1: CFLR Monitoring                    | Report on national indicators for first five years of CFLR (due 2014)  | Hal Gibbs           |   | 6/30/14  | 6/12: Devote 10/9/13 meeting to this topic  | Upcoming              |
| Goal 1: CFLR Monitoring                    | Look at photo points for Phantom Creek 3 to see why there is discrepancy between different evaluations   | Jeff Underhill      |   | 4/10/13  |   | Ready to start        |
| Goal 3: Monitoring Plan Revision           | Assess cost of adding Tier 2 variables to required monitoring (not all, but consistent with LCC monitoring)  | Jenny Briggs        | Jenny, Craig, Hal, Jeff, Paige, Jonas, Tony | 12/31/12 | Needs to be done before new contracts are put in place; 9/12: have LCC #'s USFS has #'s, Ed Berry on Pike has #'s, need to integrate; 2/14: include in March 13 presentation on LCC results; 4/10: put on May agenda?   | Deferred              |
| Goal 1: CFLR Monitoring                    | Review the monitoring plan metrics to see what data points are needed from the LCC study   | Jenny Briggs        |   | 4/10/13  | E.G., quadratic mean diameter, % change in PIPO   | Ready to start        |
| Goal 6: Research Sharing                   | On future slides of LCC study, show control, pre-treatment, and post-treatment results on the same graphs  | Jenny Briggs        |   | 4/10/13  |   | Ready to start        |
| Goal 6: Research Sharing                   | Explain the EV34 results - did a small sample size result in the greater error?  | Jenny Briggs        |   | 4/10/13  |   | Ready to start        |
| Goal 1: CFLR Monitoring                    | Look into why openings went up on the plot EV28  | Jonas Feinstein     |   | 4/10/13  |   | Ready to start        |

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| Goal 1: CFLR Monitoring                    | Document change in Jonas Transect method to split out single story canopy vs. saplings and seedlings in the future  | Jonas Feinstein     |   | 4/10/13  |   | Ready to start        |
| Goal 1: CFLR Monitoring                    | Further develop the Jonas Trasects method   | Jonas Feinstein     |   | 6/30/13  | 11/14: create histograms of sizes of openings and call Bill Baker for help on spatial statistics, consider effect of random, longer, and more frequent transects, also consider measuring openings perpendicular to transects; share where plots are with Kristen   | Ready to start        |
| Goal 1: CFLR Monitoring                    | doing a popular press search on public attitudes/ perceptions etc. in the Front Range (newspapers, websites, etc.) on the front range roundtable and associated projects, as well as on forest management in general                                  | Julie Schaefers     | Carrie  | 9/30/12  | Will move forward with existing lit review, then talk with SM team to see if more is needed   | Deferred              |
| Goal 1: CFLR Monitoring                    | Review CSFS Biomass WG Report -- tie to FR CFLR (WRR) findings for SE Report  | Kathie Mattor       |   | 5/15/12  | Not relevant  | Deferred              |
| Goal 1: CFLR Monitoring                    | Case study on collaboration   | Kathie Mattor       |   | 5/31/12  | Measuring levels of collaboration with CFLR project, based on NFF survey for national indicators; doing in-depth interviews instead of survey; completed 15 interviews, almost done transcribing, then will analyze and synthesize  | Deferred              |
| Goal 1: CFLR Monitoring                    | Jobs/Economic Indicator: Identify additional orgs/ areas of jobs, impacts to calculate, & associated contacts   | Kathie Mattor       |   | 7/31/12  | (re: 2/22 SM mtg (Greg Aplet's suggestion) ) Kawa looking @ CFLN job codes; calculating FTEs from data; Kawa needs more data from Tony; 8/8: will defer this to next year's SE monitoring; need to identify additional sources of data  | Deferred              |
| Goal 1: CFLR Monitoring                    | 2012 Socio-Economic report results  | Kathie Mattor       |   | 11/1/13  | Present 2012 SE results at October or November LR meeting; present to Roundtable Q4 meeting   | Upcoming              |
| Goal 3: Monitoring Plan Revision           | Form wildlife planning group and discuss goals, meeting plan and steps toward developing desired conditions and monitoring plan by late November 2012 (to define what species, what trends, and what methods)   | Lynne Deibel        | Co-lead: Lynne Deibel, Casey, Hal, Felix Quesada, Rick Truex, Liba Pajchar, Claudia, Jenny, Gali  | 12/31/12 | Hal to ask Lynne Deibel, Casey to look into possible additions from CDPW; Anyone know possible team members from academic community? Tony: Liba Goldstein (liba.pejchar@colostate.edu<mailto:liba.pejchar@colostate.edu>), Asst. Prof. in the Fish, Wildlife, and Conservation Biology dept.; Will schedule 1st meeting for 1 hour kickoff call, define goals and timeline, assign roles; 9/12: Leslie & Lynne to take over leading team on content, Gali to coordinate meetings (need to send out doodle)  | In progress           |
| Goal 1: CFLR Monitoring                    | Develop process for piloting landscape scale monitoring on SRFNS demo site  | Mike Babler         |   | 9/30/12  |   | Deferred              |
| Goal 1: CFLR Monitoring                    | Set up framework and populate framework with data for SRFNS demo site   | Mike Babler         |   | 10/31/12 |   | Deferred              |
| Goal 1: CFLR Monitoring                    | Pilot test SRFNS demonstration project as a landscape monitoring opportunity  | Mike Babler         |   | 12/31/12 | SRFNS has already agreed that we can use this demo site   | Deferred              |
| Goal 6: Research Sharing                   | Share progress on UFCWRP at LR meeting - 4/10   | Mike Babler         |   | 5/10/13  |   | Upcoming              |
| Goal 4: Landscape Conservation Forecasting | With Mike Babler, present background on the tool to the SM team at a meeting  | Paige Lewis         |   | 8/30/12  | LCF is based on LANDFIRE and Vegetation Dynamics Tool; puts dollar value on treatments and helps prioritize which treatments would have the greatest return on investments; e.g. Nevada / BLM; contacted Louis Provinchet (TNC lead on this tool); awaiting response; need to learn time and funding requirements; present at march mtg? In process of interviewing; effort has been transferred to adaptive NEPA project on Pike   | Deferred              |
| Goal 6: Research Sharing                   | TNC to post volunteer request for about 10 hours of data entry on ScienceBase; engage volunteer   | Paige Lewis         |   | 8/31/12  | When bibliography info is finalized; Craig has agreed to help train volunteer and Kendall as backup support (others?); Craig will also need to facilitate ScienceBase access to volunteer and others on the team; need description of volunteer position from Craig/Laura   | Deferred              |
| Goal 3: Monitoring Plan Revision           | Form understory vegetation planning group and discuss goals, meeting plan and steps toward developing desired conditions and monitoring plan by late November 2012; Write section on CFLR desired conditions and monitoring for understory vegetation | Paula Fornwalt      | Casey, Greg, Yvette, Hal, Steve Olson, Ed Biery (Pike), Tom Banks, Steve Popovich, Sheila Lamb, Rob Addington, Sara mayben, Andy Crass, Claudia Regan, Lynne Deibel | 12/31/12 | Sara to ask Sheila Lamb, Paula to ask Steve Popovich, Paige to contact Colorado Natural Heritage Program; about evaluating whether treatments are successful; Paula spoke with Steve Olsen, botanist on Pike, agreed can't do much during field season but would be nice to see plants before dead, will organize field trip week of July 9 to look at Pike understory (either July 9, 11, or 12), then will do the same on AR in August. may need 2 different descriptions of conditions for PSI and AR; 9/12: Paula held field trip on PSI with reps from forest botanists and other experts, next steps still TBD; 10/10: held team discussion, have changed monitoring methods in the plan such that now we could include other understory methods; still need to decide which should be included in the monitoring plan, what should be the desired conditions; Paula will come to Wildlife 11/13 meeting to get ideas | In progress           |
| Goal 1: CFLR Monitoring                    | Schedule next meeting of understory team for Jan 2013   | Paula Fornwalt      |   | 1/31/13  | 4/10: Discussions in progress with Clauia (from Jenny)  | Ready to start        |
| Goal 6: Research Sharing                   | Check on if a RMRS graphic artist can produce the final exhibit   | Paula Fornwalt      |   | 4/10/13  |   | In progress           |

2012 Operations Plan

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| Goal 1: CFLR Monitoring         | Recruit new team members: NPS  | Peter Brown         |  | 11/14/12 |  | Ready to start        |
| Goal 1: CFLR Monitoring         | Be liaison to team on reconstructions of pre-1860 stands to add to other research  | Peter Brown         | Laurie   | 12/31/12 | 8/8: Peter says paper almost ready to go out for peer review; hoping to have data for Pike by Oct 22/23 meeting for Monument Creek Collaboration, wil have Heil and Hall data sets complete by Dec. 1, then rest will be done over wintertime; need to meet with SM team in Spring 2013 to decide how to incorporate into implementation planning  | In progress           |
| Goal 1: CFLR Monitoring         | Conduct and report to team on data analysis resulting from plots established in summer of 2012   | Peter Brown         | Paula  | 3/31/13  |  | In progress           |
| Goal 6: Research Sharing        | Report to the LR team on results of the CSE on the AR  | Rob Addington       |  | 4/10/13  | After data is ready from the USFS  | Proposed              |
| Goal 1: CFLR Monitoring         | Ask Nick if he can share AR results at May meeting   | Rob Addington       |  |          | 6/12: now scheduled for August   | In progress           |
| Goal 1: CFLR Monitoring         | Explore with CFLR monitoring group and managers what social information or public engagement needs are most relevant in planning, designing, implementing, and monitoring CFLR projects. | Rob Addington       | Rob, Tony  |          | Rob to check with Tony about next steps on this (6/12/13)  | In progress           |
| Goal 6: Research Sharing        | Create job description for data entry volunteer work on ScienceBase  | TBD                 | Craig H, Paige                                       | 7/31/12  | 8/8: Peter to ask Laurie for status update   | Deferred              |
| Goal 6: Research Sharing        | Enter existing research into ScienceBase and share with team   | TBD                 | TNC intern, TNC supervisor (Paige?)<br>Laurie, Craig | 9/30/12  |  | Deferred              |
| Goal 6: Research Sharing        | Review data entered, share with team; invite additional data input from SM Team  | TBD                 |  | 10/30/12 | Laurie presented thoughts at April 11 meeting, needs feedback from team  | Deferred              |
| Goal 6: Research Sharing        | Make list of all sites where research has been conducted in the Front Range  | TBD                 | Craig H, Mike Babler, Peter B, Jenny B               | 10/31/12 | Look in IMPD for most of the data; need to schedule call with subteam to plan this workstream; can SRFSN staff help on this?; 8/8: Peter thinks this is in progress, emails have been sent to request information; Peter & Laurie have been looking at available data to compile   | Deferred              |
| Goal 1: CFLR Monitoring         | Use RCAT model to estimate fire cost reductions  | TBD                 | Kawa Ng  | 12/31/12 | Need GIS modeler; NFF leading peer learning session on RCAT model 02/09/12 (Kawa and Kathie to attend peer learning session on 2/9/12 for RCAT) USFS GIS specialists may help? After conversation with Regional economists from RMRS. They are in charge of running and operating RCAT for all CFLRP projects. The information that's needed is all about the landscape. Need to build model of our landscape of our area and our treatments. They have GIS person and fire modeler. Julie to talk with Paul Langowski for more details.; 8/8: Kathie will follow up with Julie; our bottleneck is not having an RCAT modeler (Kawa not an RCAT modeler), RCAT to be tested in Oregon on Deschutes, our forests were not planning on taking this on anytime soon. This is out of our hands at this point for CFLR. | Deferred              |
| Goal 5: GIS Information Sharing | Create data request to researchers, include data requirements document   | TBD                 | Craig H, Mike Babler, Peter B, Jenny B               | 12/31/12 | 8/8: not started yet (Laurie busy this summer on stand reconstruction project)   | Deferred              |
| Goal 5: GIS Information Sharing | Create layer of monitoring sites along the Front Range   | TBD                 | Jeff U   | 12/31/12 | Jeff sent Craig PSI data; still need from AR and other areas;  | Proposed              |
|                                 | Plan August LR mtg agenda  | Terra Lenihan       |  | 8/14/13  | c. Update about the Upper Fountain Creek Watershed Restoration Project (Mike Babler)<br>d. Plan CFLR understory monitory methods to influence upcoming field season (Paula Fornwalt)   | In progress           |
|                                 | Plan September LR mtg agenda   | Terra Lenihan       |  | 9/11/13  |  | In progress           |
|                                 | Plan October LR mtg agenda   | Terra Lenihan       |  | 10/9/13  | Check with Kathie Mattor - ready to present 2012 Socio-Economic results  | In progress           |
| Goal 1: CFLR Monitoring         | Develop an outline for the 2011 Monitoring Results   | Tony Cheng          |  | 3/31/12  | May need to wait until after have summary data from FSveg, data is organized to answer monitoring questions from monitoring plan   | Deferred              |
| Goal 1: CFLR Monitoring         | Produce a draft 2011 Monitoring Results report   | Tony Cheng          | Jenny B  | 4/30/12  | Waiting on final data from USFS  | Deferred              |
| Goal 1: CFLR Monitoring         | Review current activities in landscape scale monitoring, outside of Front Range  | Tony Cheng          |  | 6/30/12  | Megan Matonis; work group organized by ERI, Tony will follow up with Amy Walt; synergy with UPP, coordinated by Yvette: working with Megan, other projects at same stage of trying to figure out landscape scale monitoring; need to tailor for different CFLR projects; worthwhile to participate in the network; Greg & Tony spoke with Crown of the Continent; not much out there to review   | Deferred              |

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| Goal 1: CFLR Monitoring                          | Schedule and hold call with SM team members to decide about Southern Rockies Fire Science Network (SRFSN) demo site   | Tony Cheng          | Greg, Claudia, Craig, Peter, Jonas, Casey, Mike Babler, Jenny, Yvette   | 9/30/12  | Need to schedule first call/meeting (to decide how much SM team is to be involved in demo site; if appropriate for landscape-scale monitoring); an analysis of treatment effectiveness is being done using fire behavior modeling work of Chad Hoffman for Phantom Creek projects, another effort is related to smoke management; does new South Rampart NEPA analysis provide an engagement opportunity? Tony will talk to Yvette re: organizing existing data around CFLR completed and proposed projects on Pike, see if there is opportunity to use larger landscape scale data such as aerial photos, remote sensing, landscape fire models; (8/8): SRFSN demo is the entire Pike NF to demonstrate collaboration, the treatment effectiveness work is underway (Chad Hoffman), maybe SM team is a good venue for initial presentation. 2nd topic was to be smoke management, now will be wrapped into a workshop that may/not involve the Pike; SM team can be an audience for this information; role for SM team beyond that not yet determined; Jenny & Mike are on SRFSN, can act as liasons | Deferred              |
| Goal 1: CFLR Monitoring                          | Explore with CFLR monitoring group and managers what social information or public engagement needs are most relevant in planning, designing, implementing, and monitoring CFLR projects. (especially prescribed fire) | Tony Cheng          |   | 11/30/12 | Tony wants to meet with RT Executive Team; Invite Sara McCaffrey; ET mtg needs to be rescheduled for July (June mtg overlaps with Hayman Symposium); need to define who this data is for; have good information but need to clarify for whom it will be useful; task for the SM team in general, need input from ET. Maybe get feedback at next RT meeting in August?; (8/8): get feedback at RT meeting on 8/23; part of Kathie's presentation (30 minutes); 9/12: Roundtable Q4-12 meeting will now be rescheduled for 11/30/12; 6/12/13: Rob to ask Tony what are next steps needed  | Upcoming              |
| Goal 1: CFLR Monitoring                          | Analyze the same units as in LCC, if post treatment imagery exists (if Hal & Sara approve special flight)   | Yvette Dickenson    |   | 4/10/13  |   | Proposed              |
| Goal 6: Research Sharing                         | Discuss with spatial heterogeneity team how to integrate with LCC   | Yvette Dickenson    |   | 4/10/13  | For report to LR team in September  | In progress           |
| Goal 6: Research Sharing                         | Spatial heterogeneity team to meet with Wildlife team (Lynne & Rick)  | Yvette Dickenson    | Yvette, Lynne   | 8/15/13  | Meeting August 15 - Yvette, Lynne, and Rick   | In progress           |
| Goal 1: CFLR Monitoring                          | Present next level results on spatial heterogeneity at Sept. 2013 LR meeting  | Yvette Dickenson    | Greg, Claudia, Craig, Peter, Jonas, Casey, Mike Babler, Jenny, Megan Matonis, Tony; Paula, Dick, Mike Battaglia, Kirsten Pelz | 9/30/13  |   | Upcoming              |
| Goal 3: Monitoring Plan Revision                 | Draft description of methods for monitoring spatial heterogeneity to include in revised monitoring plan for 2013; present to SM Team  | Yvette Dickenson    | Kristen   | 12/31/13 | 4/10: Kristen Pelz working on this at stand level, still need to figure out how to do it at landscape scale; 6/12: Kristen working on this; will be included in Sept 11 team update   | In progress           |
| Goal 1: CFLR Monitoring                          | Review the National Indicators for our October 2013 meeting. Link on website.   |                     | ALL   | 10/9/13  | Transmittal letter and tracking and reporting guides on the LR page of the website.   | In progress           |
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