Comment						
topic	Reviewer	Location: Page/Line in original doc	Reviewer comment	Author response	Author response	Reviewer response to author action
	General	_		Rose color indicates major effort revision		
	1 1		Material needs improved reorganization, writing, stating and summarizing main findings. Needs discussion section.	see revision see revision		
			Summary section = bullet list that repeats info from results. Not rigorous/thorough interpretation of analysis, does not explain how			
	2		knowledge gained will guide/focus BACI.	see revision		
	1		Break analyses into different chapters to make sub-studies more digestible.	Good idea, did this		
	1		Distil into fewer figures. Figures sometimes shown but not referenced.	I think it's a matter of links that didn't update to the correct figure numbers. Will		
			Present results more clearly (means, CI).	check cross-references. means are not appropriate for this dataset due to severe lack of normality and		
	1			necessity to weight prescriptions. Calculated weighted medians and ranges instead.		
	1		Present stats models in methods.	Most stats modeling removed in response to view that they did not directly address the study questions. Where modeling is used, the methods are included in the Methods sections of each chapter.		
	1		Stats tests need to be described more fully as tables and in the text.			
	1		Writing poorly organized and repetitive between sections. Break methods and results discussion into sections or clear chapters for response variables. Could help avoid repetition, or mixing	Breaking into chapters helped organize this done		
	1		Break methods and results discussion into sections or clear chapters for response variables. Could help avoid repetition, or mixing results/discussion.	done		
	1		Lack of clear topic sentences makes paragraphs harder to understand.	see revision		
	2		Intro is brief but well-framed. Coherence fragments a bit when site and treatment details added. These should be placed in methods.	placed into Study Sites chapter		
	2		Makhada wall amalainad Did wall at amalaining limitations 0 was at 2 2 2 2 2 2 2	About		
			Methods well explained. Did well at explaining limitations & uncertainty in methods. Corrections in figure order, display, text formatting, grammar needed. Figures need to follow and not precede mention in text (or	thank you see revision		
	2		occurring long after mention).	Jack Tempori		
	2		Reporting results are overwhelming. Significant editing needed. Don't include unmentioned figures. Focus figures on message to be	see revision		
			conveyed. See figures 14, 18, 19, 20, 23, 26.			
	2		Figure 39 is a red flag. Split its information or exclude it. Liked bullet point summary, but a discussion section is needed since this report will illuminate/illustrate practices in the field. Always	see revision		
	2			added to each chapter		
	2		pros and cons about reported findings due to uncontrollable covariates. A list of needed editing corrections is provided. D47	have referred to that		
	orous, transp	parent and				
	search and s thods follow					
	1		PCA/NMDS very detailed. Could be distilled to clarify main patterns, but were informative	Focused analysis methods specifically to objectives and questions in each chapter		
	3		Matrix of correlations of variables — fundamental to exploratory analyses, provides much of same info as ordination. Not conducted. Need to defend why PCA/NMDS necessary, how results to be used in a BACI, provide info useful to achieving objectives.	Agree; added		
	AE		Yes to correlation matrix. Wide agreement w/ reviewer 3.	agree		
	3		Need list and justification for metrics included in ordination.	removed analysis as did not answer study questions		
	1		References needed for analytical support/justification for ordinations, avoid stats jargon associated with them. Other stats tests (LMM) mentioned in passing without describing model structure / variables involved.	removed analysis as did not answer study questions removed analysis as did not answer study questions		
	2		Lack modeling explanation. Model details and equations should be stated up front and not as a footnote.	removed analysis as did not answer study questions		
	3		Explanation of exploratory analysis not rigorous, sound, or transparent. Sloppy, leaving impression that analyses not well thought out. For instance, GLMM/LMM mentioned once and never again.	described methods more clearly within each chapter		
	2	-40	LMM results not explained nor results presented. No models nor equations presented. Needs to go in methods. p40: Report on LMM structure in methods, not results. Present modeling output.	removed analysis as did not answer study questions		
	3		Reporting of the "mixed model" on p. 39 is severely incomplete, lacks description in methods. Need to justify why mixed model necessary to generate info for Fig 15. The footnote equation on p. 40 should appear in methods along with definition of each parameter. DB9	removed analysis as did not answer study questions		
	3		Explain if site class = fixed effect and why site treated as random effect. Seems like inexperienced presentation of this info.	We determined which prescription variants we sampled, so prescriptions are fixed levels of the Prescription factor. Prescriptions are defined by the site class where the harvest is. Therefore, site class is also a fixed effect. Sites were randomly selected within the prescriptions, so site itself was treated as a random effect. However, mixed models were removed as did not particularly address study questions.		
	2		Report lacks organization for reporting findings. Did not include Aspect in analysis considerations. Discussion paragraph on catchment physiography and role in site productivity might	see revision Added both valley aspect and buffer cut face exposure to windthrow analysis.		
	2	p56	be useful to others. PCA: results sometimes nowhere to be found, yet discussed (p.56, hierarchical clustering & PCA).	were in appendix; removed analysis as did not answer study questions		
	3		No description of cluster analysis in methods, nor description of why needed, conducted, or why info useful.	removed analysis as did not answer study questions		
	2			removed analysis as did not answer study questions		
	AE			removed analysis as did not answer study questions		
			In document, "treats site as a random effect (to account for those unknown reasons [??])". Unusual explanation of random effects. Quote "we must avoid the conclusion that post-harvest differences are the result of the harvest treatments, even between sites in the	The harvest might or might not be what affects site conditions. Because this is not a		
	2	p40	same site class and channel width categories." However, there WAS a difference (i.e. harvest) that could affect site conditions post harvest such as increases in peak/diel streamflow. Report model summary and clarify interpretation.	Ine harvest might or might not be what affects site conditions, Because this is not a Before-After Impact study, we cannot say that the observed differences between prescriptions aren't due to the conditions present prior to harvest. In fact, we know that in most cases the prescriptions with an IZ harvest treatment PROBABLY IDID DIFFER prior to harvest because those RMZs were eligible for an IZ harvest treatment AND the landowner believed the timber value was worthwhile to expend and additional effort to get. Streamflow is not a riparian function we are addressing in this study. The study purpose and objectives are explicitly to constrain the investigation to the riparian function of shade, wood recruitment potential, and sediment and the additional target of DFC target trajectory.		
	AE	p40	Parse this phrase: "Although we know that Core and Inner Zones for all variants were slightly different prior to harvest, they were similar enough that we can infer from these results that in general, sites with and without Inner Zone harvest were different prior to the harvest. This not surprising but emphasizes that we must avoid the conclusion that post-harvest differences are the result of the harvest treatments, even between sites in the same site dass and channel width categories." Holy moly, I think I know what they mean, but it sounds like "sites were comparable and similar, which tell us that we can't compare them." Results unclear, without P-values or R2. Need to mention whenever differences/relationships discussed.			

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			Useful to characterize means with 95% CIs when comparing site prescriptions.	Must be careful as few of the data can be considered normally distributed;	
	1			Added CI and mean representations to metric boxplot figures in Appendix B to assist	
	_			visual interpretation but these should only be used as indicators. Tables only include	
		_	No. of the Pill Co.	medians.	
	1	_	Need to summarize/distill figures. Too busy. Need to better demonstrate main findings.	see revision	
	3		Place some figures in supplemental sections to highlight main findings.	okay	
	3		Organization of study site selection done well.	thank you	
	3		Not adequate info on DFC stand growth model. Expand a bit on origin, data required, algorithm/parameters required, output generated would be sufficient.	done	
		_	BACI is never mentioned except that such data were collected, nor a description of BACI-related analyses or data required. Since goal =	under still to inche for une that out air on that this study did not point to any	
	3				
	, ,		guide, focus a BACI, wanted to see how analyses in report would accomplish that overall goal.	prescriptions standing out. Discussion and Conclusions address this topic specifically.	
		+	Controllistics around the study of according to the study of the study	Correctm this study was not intended for rigorous statistical analyses. This is not the	
			Contradiction: seemed like study not geared towards rigorous stats analysis. But, methods through 2.7.2 through and transparent. Canopy Closure section could be improved.	Effectiveness study (Phase 3). This exploratory study was to dicover the ranges of	
			Canopy closure section could be improved.	variabilities in metrics related to riparian functions; to discover any prescriptions that	
	3			stood out as being different and requiring more in-depth investigation; and to	
	1				
				calculate the percentages of RMZs, especially by rescription variant, are on track to meet the DFC basal area target. See Introduction - Purpose and Objectives.	
				Infect the DFC basal area target. See introduction - Purpose and Objectives.	
		+	Authors state they can't measure effective shade but refer to the data as shade sometimes, canopy closure others (consistency).	The "Shade" label is based on the variable labels used in the dataset, which are in	
			Reduces confidence in results interpretation. Also, authors indicate that they lack confidence that their measurements can be used.	fact densiometer canopy cover measurements. We have corrected labels	
			Reviewer offers citation.		
			Reviewer oriers citation.	throughout the report.	
				We are confident in the canopy cover results from spherical densiometers. Many	
				studies comparing various methods have found spherical densiometer	
				measurements to be accurate for representing the conditions within a buffer (e.g.,	
				Kelly and Krueger 2005). Effective shade, however, requires and incorporates	
1				information on the position of the canopy with respect to the measurement point	
1		1		and sun angle. This study was primarily investigating characteristics of the buffer	
1				vegetation on one side of the stream and not necessarily the buffer ability to shade a	
				given stream. Given that, we believe the densiometer measurements do adequately	
1		1		represent the buffer character (see Kelly and Krueger 2005). At high levels (above	
	,			80 or 85%), studies comparing densiometer canopy cover relationships with	
	"			effective shade have shown the densiometer measurements overpredicting effective	
				shade as measured by hemispherical photo with sun angle modeling (the "gold	
				standard" of effective shade measurements). We therefore don't have confidence in	
				the ability for the canopy cover measurements to represent effective shade once the	
				reported values exceed about 80%. We are confident they are in fact over 80%, just	
				not the precise values. While it would be interesting to have full-on effective shade	
				analyses for these sites, that would have been a much larger effort beyond the scope	
				of the study design. Revised text to improve description of these relationships and	
				reasoning.	
			No explanation on why data not collected on tree heights or subset of heights, or why crown ratio estimates not recorded.	That was a decision made for financial reasons and not by current report authors.	
	3			Report states what was done, not all the tradeoffs that were considered in	
	-			developing design or all the things that could have been done but were not.	
	3			deleted	
			Need clarify/rewrite metric variability analysis (2.14), not clear what "gathering variabilities" means. Also need more specificity around		
			"future work" stats needed. Need to clarify what asterisk number means for Table 12, Levene's test.	test and data were intended to identify whether any prescriptions were remarkably	
	3			different from others , which might provide reasons to focus the follow-on Phase IIi	
	1			study on them. The tests were also idnetify variables for which ANOVA and simple t-	
				tests could be performed without violating equality of variance assumptions. See	
	3			ravirian	
			Methods for collecting/attributing mortality, downed wood, recruitment adequate, descriptive stats informative.	thankyou	
			Methods for collecting/attributing mortality, downed wood, recruitment adequate, descriptive stats informative. Color scheme used for large/small stream variants may be problematic for readers w/ difficulties interpreting color.	ravirian	
1	3		Methods for collecting/attributing mortality, downed wood, recruitment adequate, descriptive stats informative. Color scheme used for large/small stream variants may be problematic for readers w/ difficulties interpreting color.	thank you all figures are also interpretable, we believe, without the color scheme but are	
	_		Methods for collecting/attributing mortality, downed wood, recruitment adequate, descriptive stats informative. Color scheme used for large/small stream variants may be problematic for readers w/ difficulties interpreting color.	thankyou	
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	_		Methods for collecting/attributing mortality, downed wood, recruitment adequate, descriptive stats informative. Color scheme used for large/small stream variants may be problematic for readers w/ difficulties interpreting color.	thank you all figures are also interpretable, we believe, without the color scheme but are	
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				In a contract of the contract	
	3			Thank you. Was mindful about such language in revision.	
	3		methods it was stated that no analysis took place on the particular riparian function. Another example = summary, where authors make statements about a hypothesis, but no test was conducted.		
			Authors need to explain what "detrimental to riparian function" means. Term is loaded and confusing, as windfall isn't "bad" in that it	Good point: see revision	
	3		adds material to the forest floor and stream channels.	Good point, see revision	
			Variability analysis poorly executed and explained. Unclear what "differences in central tendencies" are. Only two sources of variability.	added explanations and separated into the chanters where relevant with metrics	
	3		Implies haphazard approach to test and reporting.	pertinent to that topic	
	2		Sufficient, but see Q4. Much more out there to support results found.	added more literature, especially related CMER studies	
5. Do the lite	rature citat	ions include			
the latest ap	olicable info	rmation and			
	the current				
scientific und					
			Few citations overall, mostly agency reports in intro.	still largely agency reports because the introduction is about the regulations and	
			rew citations overall, mostly agency reports in into.		
	1			their development; did add some more peer-reviewed literature. For more context about the regulations and their bases, the cited agency literature should be	
				consulted.	
			Since no discussion section, can't tell how results relate to current sci understanding (other studies & reports). NEEDS ATTENTION.	see revision	
	1		Can't tell if findings are outliers or representative.	isee revision	
				see revision	
	2		conclusive statements.	Jee (CVI)(VI)	
	3		Literature cited in intro adequate/informative.	okay	
			Often citations would improve other specific topics. Methods citations incomplete. Citations for LM/GLM/linear models needed	see revision	
	3		citations and explanation in general. Sections on ordination would benefit from example citations to support decisions to include them		
			and provide a pattern for describing their use and example for reporting results.		
			Records in bibliography that don't appear in the text.	references were for discussion draft that was removed due to conflict and time	
1 1	3		The state of the s	constraints; see revision	
6. Are uncer	tainties one	d limitations			
of the work					
	dequately?				
a	dequatery.		Study did well w/study limitations & scope of inference & sources of uncertainty.	thank you	
 	-	!		Sites that were and were not harvested within the Inner Zone were almost assuredly	
			pre-narvest data are often referenced in the methods and in the results, but are not included in figures. Data presented in this report appear to only encompass the post-harvest period data. Summary section 4.1.2 stated that there were pre-harvest differences between	different prior to harvest because if they had started out the same, the landowners	
				would probably have done a DFC inner zone harvest for the No-harvest sites also.	
1			sites that were and were not harvested in the inner zone, yet I noticed no figures that compared any pre-post data. Even if there were differences in pre-harvest conditions, what was the relative magnitude of change during the post-harvest period?	However, this is merely inference; the only pre-harvest data were a few things that	
1			universities in pre-naivest conditions, what was the relative magnitude of change during the post-narvest period?	However, this is merely inference; the only pre-harvest data were a few things that were sometimes included in the forest practices application (FPA). We considered	
				recreating, with a lot of uncertainty, pre-harvest stem densities, basal areas,	
				diameters, and conifer fraction for the sites that had inner zone harvest from the	
	1			DFC input data. However, those data are from the entire length of those riparian	
				buffers whereas we only sampled 300 ft. We found many known cases where we	
				can see that our sample is not consistent with the overall buffer conditions and so	
				decided that was not a good analysis.	
				Pre-harvest data for the other sites could reasonably be assumed equal to the	
				immediate post-harvest (IPH) data, which were created synthetically but with a solid	
				basis (see methods) and in which we have higher confidence.	
	3		See responses to Q1.		
	2		See responses to Q1. See Q1, 3 responses.		
	2 umptions st	tated and			
	2 umptions st bed adequa	tated and	See Q1, 3 responses.		
	2 umptions st bed adequa	tated and	See Q1, 3 responses. Little discussion of stats tests assumptions. Needed.	added where any stats were retained	
	2 umptions st bed adequa	tated and	See Q1, 3 responses.	removed analysis as did not answer study questions	
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		NMDS: Could also look at topography, soil, others. Examined relationships w/ site class and dominant species probably more related to	Site class is based on and incorporates soil type and other physiographic features	
		physiography than site class (more useful associations could be drawn). Need to test these before drawing conclusions on site class.	within it. Moreover, the rules are based on site class and the rules are ultimately	
		Results in Fig 13 probably intertwined w/ elevation or aspect.	what this series of studies is meant to test. Therefore, we believe site class is a	
		nesaris in rig 13 probably intertwined w/ elevation of aspect.	worthwhile variable to investigate and express conclusions about. That is not to say	
2			that more detailed investigate and express conclusions about. That is not to say	
			is well set up to allow that if someone desired to do so. However, this study was not	
			meant to delve to that detail.	
2	p61-65	Section 3.3.2 Shade 2: Where is the explanation? Seems that there is a missing paragraph. Explain the box plots (figure 33), and include	removed PCA; does not aid in reaching objectives	
		the PCA analysis mentioned on P 62.		
		The study has excellent geographical inference. Translate some findings into estimates. How many sites state-wide are likely to not men		
2		shade target?	different riparian prescriptions in any given FPA is unknown and highly variable and	
			the lengths of stream associated with each prescription are also unknown.	
2		Consistently report R2 and p-values.	see revision	
2	Fig 22	Font is very small (as an example). Fix all figures for constant font size.	see revision	
		3.2.3: Fig 27 appears to have significant differences in Inner Zone harvest categories. Medians different. Did you mean to say "Core	see revision	
2	p52	Zone"?		
		Only discuss Figure 26B. Discard A & C? Also, variants 7 & 8 seem to have similar patterns. What do authors have to say about this?	see revision	
2	p52			
		Fig 34: Many sites w/ TPS < 250 had >80% Shade. What guarantees that results are not outliers/measurement errors? N = 9.	We inspected site photos, aerial images, and lidar topgraphy to verify the validity of	
		ing 34. Many sites w/ 173 < 230 had zooza sinade. What guarantees triat results are not outlierly measurement enrois: N = 3.	outlier data points. Note that even 200 trees per acre is quite high for stands of	
			harvestable age/size. Data that show shade relationships with stand density tend to	
			show that for stand densities below 150 tpa. Given this, while we might expect a	
	1		relationship between stem density (or basal area density) and shade for low stem	
	1		density (or basal area dnesity) values, the relationship flattens out and disappears by	
	1		the time the stands look like the stands of this study. New discssion section	
	1		elaborates on this.	
2	p63		You really need two of the three basic pieces of information to have any idea what a	
	1		stand looks like, even when the tree species/type is known: stem density, basal area	
	1		density, average stem diameter - pick two. Without two, it is difficult to infer	
			anything meaningful. For example, one can have a stand with high basal area	
			density because it has a few very large trees (e.g., many stands in Prescription 1 or	
			because it has many small trees (e.g., stands in Prescription 11 on Site Class V).	
			because it has many small trees (e.g., stands in Prescription 11 on site class v).	
		Last sentence: Figure 39? What Figure 39?	figure number link fields must have updated or become warped when document was	
2	p63		re-opened. Figure 39 was intended but has now been removed per other	
			comments. See revision.	
2	n69	3.5: "Labels in Fig 29". Do you mean 40?	figure number reference updated irregularly when sections were moved. Should be	
2	p69		corrected in current version.	
2		3.5: "Labels in Hig 29". Do you mean 40? Fig 41 doesn't illustrate two DFC sites as stated.	corrected in current version. fixed figure	
2		Fig 41 doesn't illustrate two DFC sites as stated.	corrected in current version. fixed figure removed PCA; does not aid in reaching objectives. Added different analyses directly	
			corrected in current version. fixed figure	
2		Fig 41 doesn't illustrate two DFC sites as stated.	corrected in current version. fixed figure removed PCA; does not aid in reaching objectives. Added different analyses directly	
2		Fig 41 doesn't illustrate two DFC sites as stated.	corrected in current version. fixed figure removed PCA; does not aid in reaching objectives. Added different analyses directly related to objectives.	
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