# Report on the Second Public Consultation of the FSC US Controlled Wood National Risk Assessment

Beginning in mid-2016, FSC US started working with a new US Controlled Wood National Risk Assessment Working Group and a group of Technical Advisors to address the comments received during the first public consultation in 2015 and develop a second draft. A second public consultation was held from December 15, 2017 to February 28, 2018. FSC US received over 1,000 individual comments from 44 total stakeholders. Of these stakeholders, 38 comments were economic, 5 were environmental, and one was social.

As part of the public consultation, FSC US held two webinars and three in-person meetings, one in Lexington, KY, one in Atlanta, GA, and one in Portland, OR. Over 100 individuals engaged via these meetings with 56 attending the webinars and 57 attending the in-person meetings.

The individual comments on the second draft of the NRA are presented in Annex A. For confidentiality, the names of the individual respondents have been omitted in this report. All comments were analyzed and considered by the Working Group, the Technical Advisory Group, and FSC US when developing the final draft of the NRA.

The following is a summary of the key issues identified during the second consultation and how they were addressed in the final draft:

- Scale of specified risk areas: Many commenters felt that the areas of specified risk were
  too broad. The areas of specified risk need to be reassessed to ensure that they are as finescale as possible without being site specific.
  - FSC US Response: The identified risk areas and available data were re-evaluated. The geographic area of specified risk was refined when enough information was available.
- HCV 1 individual species identification & risk assessment: Comments from all chambers felt that a more appropriate methodology to identify HCV1 species is needed. Environmental and social chamber commenters felt that the methodology for identification of HCV 1 species used wasn't thorough enough and that many more species should have been included in the assessment. The economic chamber expressed concern about the inclusion of the Ivory-billed Woodpecker, which hasn't been conclusively documented in over 20 years. Economic commenters also felt that the legislative process is already effectively protecting those species most at risk.
  - FSC US Response: When developing the final draft of the NRA, FSC US ensured that available guidance for assessing HCV1 species was being followed. Experts were consulted to determine an appropriate approach for identifying HCV1 species. The experts recommended expanding the methodology to include species that are G1 and S2 in at least one state. This resulted in 3 additional species, but only one that was forest dependent. To address comments related to species not being documented in the last few decades, an additional criterion to the HCV1 species filtering process was added to limit the results to species that had been formally documented within the last two decades. This resulted in one species no longer meeting the criteria (Ivory-billed Woodpecker). The species ranges for specified risk areas were also refined when additional information was available.
- Best Management Practices: Comments suggested that there is a misalignment between identified threats from poor BMP implementation for HCV1 Critical Biodiversity Areas and the low risk designation for HCV4 Critical Ecosystem Services.
  - ➤ FSC US Response: FSC US consulted with experts and reviewed additional information sources related to the effectiveness of BMP implementation within the CBAs. These threats being assessed are to biodiversity and look at much finer scale

than the HCV 4 assessment. The HCV4 assessment focuses on forests that provide ecosystem services to local communities and as such threats are assessed at a broad scale. Though not perfect everywhere in protecting these ecosystem services, there is evidence of widespread success throughout the assessment area in effective protection through BMP implementation. However, the effectiveness of BMPs in protecting biodiversity is not fully understood.

- Old Growth: Comments suggested that a better methodology is needed to determine where
  old growth is threatened. Economic chamber commenters felt that old growth is adequately
  protected on public lands. Commenters also noted that the threat expressed in the draft
  (that there are not enough younger stands being managed to become future Old-Growth) is
  not a valid threat, as it is not a threat to existing HCVs. Environmental comments expressed
  support for a specified risk designation and concern that threats directly from harvests of
  Old-Growth forests were not identified.
  - ➤ FSC US Response: FSC US worked with experts to review additional information sources and to re-evaluate the threats assessment and the specified risk area extent. Additionally, a GIS consultant worked to implement a new, coarse-scale filtering process for where old growth forests are most likely to occur.
- **Conversion:** There are many sources of evidence that forest area in the United States is stable or increasing, both at national and regional scales. Comments suggested that the specified risk area is too coarse and the drivers of conversion need to be refined. Economic chamber commenters also felt that forest management isn't a driver of conversion and companies don't have any control over population growth.
  - ➤ FSC US Response: The final draft of the NRA includes additional information sources and analysis related to the drivers of conversion and considered both population growth and residential development in the definition of specified risk areas. The scale of risk was shifted from entire states to counties. The draft recognizes that forest area is stable at very coarse scales, but also provided evidence that forest conversion continues to be a concern at finer scales.
- Statements required in the Control Measures & blanket requirement for provision of
  educational materials: Concerns were raised regarding the requirement for a statement to
  suppliers that was included in the Control Measures. There was also a perceived
  misalignment with using a risk mitigation approach while still requiring a statement with an
  eliminate or no risk message. This could lead to a major reputational risk for a company.
  Additionally, commenters questioned the validity of requiring educational materials even
  when there was no evidence that they would be effective in mitigating risk.
  - FSC US Response: This Control Measure is no longer included in the final draft NRA. If provision of educational materials is identified as an effective mitigation action, it will be addressed at the Controlled Wood Regional Meetings.

### List of all commenters:

Allegheny Wood Products, Inc.	Economic
Alyson Merlin / Barbara Bramble – The National Wildlife	Environmental
Federation / Individual Member	
American Forest & Paper Association	Economic
American Forest Resource Council	Economic
American Green Consulting Group, LLC	Economic
Andersen Corporation	Economic
Bingaman & Son Lumber, Inc.	Economic
Boise Cascade	Economic
Bright Wood Corporation	Economic
Columbia Forest Products	Economic
Daniel Hall	Environmental
Danzer Services	Economic
Domtar	Economic
Drax Biomass	Economic
Ecotrust	Environmental
Enviva LP	Economic
Evergreen Packaging	Economic
Forest Products Certification Group	Economic
Georgia-Pacific LLC	Economic
Glatfelter	Economic
Hancock Natural Resource Group	Economic
IKEA Purchasing Services (US) Inc.	Economic
International Paper	Economic
KapStone Kraft Paper Corporation	Economic
Mason, Bruce & Girard	Economic
Mendocino Redwood Company, LLC	Economic
Milestone Veneer LLC	Economic
MixedWood LLC	Economic
NCASI	Economic
Packaging Corporation of America	Economic
PotlatchDeltic	Economic
R.S. Berg and Associates	Economic
Rainforest Alliance	Economic
Resolute Forest Products	Economic
SCS Global Services	Economic
Sheoga Hardwood Flooring	Economic
Sierra Club	Environmental
Society of American Foresters	Economic
Sustainable Northwest	Social
The Westervelt Company	Economic
Washington Department of Natural Resources	Economic
WestRock Company	Economic
World Wildlife Fund	Environmental
Zimmfor Management Services Ltd.	Economic

Comment Category	Description
R = Risk Designation	Issue was discussed by the Working Group.
C = Control Measure	Issue was discussed by the Working Group.
E = Editorial comment	Document text was reviewed by FSC US.
I = Information sources or rationale	Further research was carried out, additional sources were included, and/or further rationale was added in the final draft.
A = Agreement	No further action needed.
X = Not relevant (no reference to	No footbass and a second to be a second to
sources, outside the scope of the NRA, etc.)	No further action was taken because the comment wasn't relevant to the document contents.

## **Comment Reference Key:**

Comment	
Reference	Consultation Question
	Are the FSC Regions an effective coarse-level framework for geographically
	differentiating risk designations? Or are there other criteria that should be
	considered to develop better regional boundaries for the purposes of the US
CQ 1	National Risk Assessment?
	The primary antitrust concern expressed during the first public consultation
	focused on a requirement for supplier agreements. With the removal of this
	requirement, proposed landscape scale risk designations (that do not require
	information about specific origin of materials) and a stated intention to identify
	multiple potential mitigation actions at Controlled Wood Regional Meetings
	(leaving certificate holders to decide individually which to implement), have the
CQ 2	significant antitrust concerns been resolved?
	We've received comments that FSC documents formatted with tables and very
	small text are difficult to review, understand and use – this is a primary reason
	we included the Annexes with content for Categories 2, 3 and 4. The annexes
	also allow us to provide the guidance, definitions, context information and some
	additional details that we believe will assist readers in understanding our
	rationale for risk designations. However, having similar content in both the main
	template document and annexes could be perceived to add unnecessary
CQ 3	complexity to the document. Does it make sense to include the Category 2, 3 and 4 Annexes in the way that we have?
CQ3	Please provide feedback on the methodology used to identify HCV 1 individual
CQ 4	species. Specifically:
CQ 4	Is there a different process that would have resulted in a better alignment of
CQ 4a	species identified with the definition for HCV 1?
OQ 10	Are there other available datasets that would provide a better framework for
CQ 4b	identifying HCV 1 species for this risk assessment?
0 0 10	Are there different criteria that could be used with the NatureServe dataset
	which would have resulted in a better alignment of species identified with the
CQ 4c	definition for HCV 1?
	Are there other available datasets that could replace or augment the data used
	for identification of HCV 2 (Globally, regionally or nationally significant landscape
	level forests) to better align the areas identified with the definition for HCV 2 in a
CQ 5	consistent manner across the assessment area?
	Please provide feedback on the methodology used to identify HCV 3 (rare,
CQ 6	threatened or endangered ecosystems, habitats or refugia). Specifically:
	Do the HCV 3 identified (Old Growth, Roadless Areas and Priority Forest Types)
CQ 6a	together address the rare (forested) ecosystems in the US that are significant at

	a global, regional or national scale? If not, please provide rationale and sources
	of information that support your response.
	Are there other available datasets that could replace or augment the data and
	information used for identification of HCV 3 to better align the areas identified
	with the definition for HCV 3 in a consistent manner across the assessment
CQ 6b	area?
	Are you aware of any additional information sources that can provide information
CQ 6c	on the threats to public land Old-Growth from forest management activities?
	Please provide feedback on the methodology used to identify and assess HCV
CQ 7	4. Specifically:
	Are you aware of any additional datasets or information sources that can provide
	information regarding the location of HCV 4 (critical ecosystem services) and
CQ 7a	threats to HCV 4 from forest management activities?
	Are you aware of any additional research that has assessed compliance with
CQ 7b	and/or effectiveness of forestry Best Management Practices (BMPs)?
	Are you aware of any additional datasets or information sources that can provide
	evidence of the presence of HCV 5 (sites and resources fundamental for
	satisfying the basic necessities of local communities or indigenous peoples)
CQ8	within the assessment area?
CQ 9	Please provide feedback on the HCV 6 risk assessment. Specifically:
	Are you aware of any evidence from the last 15 years of threats from forest
	management activities to Native American sacred places or sites within the
CQ 9a	assessment area?
	Are you aware of any evidence of the existence of cultural values critical to local
	communities within the assessment area? And if so, is there any evidence of
CQ 9b	threats to those values from forest management activities?
	Are you aware of any research that has assessed the effectiveness of protective
CQ 10	designations in the assessment area?
	After reading the supplementary document that describes the Controlled Wood
	Regional Meetings in greater detail, please provide feedback on the Category 3
CQ 11	Control Measures. Specifically:
	Are you supportive of the proposed Category 3 Control Measures? If not, why
CQ 11a	not?
	Do you support the proposed contingency plan for situations where mitigation
00.44	actions are not successfully identified at the meetings? Do you have any
CQ 11b	suggestions to improve the contingency plan?
	Are there specific stakeholders (local, regional, national or global) that you
	believe will be essential participants for successful Controlled Wood Regional
00.44=	Meetings, and/or that would be valuable participants and should be encouraged
CQ 11c	to attend?
	Do you have suggestions for an alternative proxy (other than urbanization and
	population growth) that could be used to more accurately identify places where
	there is a risk (that is higher than low risk) of materials entering the FSC supply
CQ 12	chain from places where forests are being converted to plantations or non-forest use?
UW IZ	Are you aware of any additional (and affordable) datasets or information sources
	that could replace or augment the data used to identify places with a higher
CQ 13	likelihood of forest conversion occurring?
UQ IS	After reading the supplementary document that describes the Controlled Wood
	Regional Meetings in greater detail, please provide feedback on the Category 4
CQ 14	Control Measures. Specifically:
UQ 14	Do you have suggestions of specific mitigation actions that certificate holders
CQ 14a	could potentially take, that are not repetitive of what may already be taking
UK 148	Toolid potentially take, that are not repetitive or what may already be taking

	place, that would help to keep forests from being converted to plantations or non-forest use? These are the kinds of actions that would need to be identified at the Controlled Wood Regional Meetings and then be implemented by certificate holders under the proposed control measures. This information will help assess the potential for effective risk mitigation resulting from implementation of the proposed Category 4 control measures
CQ 14b	Do you believe that the above actions will help to reduce the risk of sourcing materials from areas of forest conversion? In the short-term? In the long-term?
CQ 14c	Are there specific stakeholders (local, regional, national or global) that you believe will be essential participants for successful Controlled Wood Regional Meetings, and/or that would be valuable participants and should be encouraged to attend?
CQ 15a	Do you support the risk designations as proposed in the Draft 2-0 Controlled Wood National Risk Assessment for the Conterminous United States?
CQ 15b	If (b) or (c) is indicated, please identify what specific adjustments or changes are needed
CQ 16a	Do you support the control measures for Category 3 (HCV) as proposed in the Draft 2-0 Controlled Wood National Risk Assessment for the Conterminous United States?
CQ 16b	If (b) or (c) is indicated, please identify what specific adjustments or changes are needed
CQ 17a	Do you support the control measures for Category 4 (Conversion) as proposed in the Draft 2-0 Controlled Wood National Risk Assessment for the Conterminous United States?
CQ 17b	If (b) or (c) is indicated, please identify what specific adjustments or changes are needed
CQ 18	Do you have any additional comments that you would like to share?
CQ 19	Please provide any technical or editorial comments you have using the table below.
CQ 20	Do you support the general concept of using Controlled Wood Regional Meetings (with voluntary in-person participation from certificate holders and other interested and affected stakeholders) to collaboratively identify the mitigation options for companies that wish to source forest materials from areas of specified risk that may be designated for <a href="Category 3">Category 3</a> (HCV) in the National Risk Assessment?
CQ 21	Do you support the general concept of using Controlled Wood Regional Meetings (with voluntary in-person participation from certificate holders and other interested and affected stakeholders) to collaboratively identify the mitigation options for companies that wish to source forest materials from areas of specified risk that may be designated for <a href="Category 4">Category 4</a> (Conversion) in the National Risk Assessment?

Comment Category	Reference	Comment	Action(s) by FSC US staff and WG	Chamber
C	Anti-Trust	It appears the FSC and the NRA may be taking a rather inconsistent approach towards the topic of anti-trust, and most importantly, over-reacting to anti-trust claims by forgoing important and reasonable Control Measures. The NRA's discussion of anti-trust concerns does not appear to provide an objective and legally grounded analysis of either the challenges or the FSC's options. I am not necessarily arguing for fully transparent analyses here, given that FSC might not wish to put all of its cards on the table after receiving tacit legal threats from some stakeholders. Rather, I'm noting that the types of more effective Control Measures found in the prior draft NRA appear to have been removed at the behest of those stakeholders, when other information suggests their assertions were overstated. The FSC's Consultation Report for the prior draft NRA indicates (at page 2) that the FSC's attorneys expected that the prior draft NRA would in fact be defensible in court. Likewise, the NRA materials indicate that some stakeholders argued that supplier agreements per se would constitute anti-trust violations – yet supplier agreements and contracts are surely commonly used in other supply chain contexts, suggesting that either they can be shaped in ways that are compliant, or that the anti-trust concerns have been overstated.	Confirm with WG that they wish to continue in the current direction; note that revised CM are not only due to Anti-trust,	Environmental
		Effectiveness of Forestry Best Management Practices Keeping forests as forests is key to protecting all the critical ecosystem services that forests provide, including water quality and quantity. The Risk Assessment highlights the connection between well-managed forests and healthy watersheds throughout the discussion of High Conservation Value (HCV) 4 – Critical Ecosystem Services (pg. 211-213). This section also discusses forestry best management practices (BMPs) and their critical role in addressing nonpoint source pollution and protecting water quality. After outlining information and resources related to BMP effectiveness, compliance, and monitoring, this HCV is ultimately designated as "Low Risk for the entire assessment area."  Despite this designation and recognition that BMPs are effectively protecting water quality throughout the assessment area, the Risk Assessment suggests that forest management activities are a pervasive threat to water quality in several Critical Biodiversity Areas (CBAs), including Ouachita River Valley, Central Appalachians, Southern Appalachians, and Florida Panhandle. Not only do these statements conflict with the HCV 4 designation, they are also not supported by the scientific literature or surveys cited (pg. 213). Furthermore, these statements included in the Risk Assessment do not acknowledge the continuous improvement of state BMPs to	Review sources related to BMPs & water quality in CBAs; note that BMPs are designed for water quality alone (which made for a good fit with HCV 4), and may not always be the best match for biodiversity; note that CBA are at a finer scale than the state-scale effectiveness assesments and may represent more	
R, A	BMPs BMPs	address site-specific challenges detected through inventory, monitoring, and assessment.  Some of these CBAs cover large and diverse geographical areas and encompass several states. Forest conditions, topology, climate, geology, and other conditions vary by state and regions or even sites within states, which is why BMP programs and manuals are tailored to provide guidelines for site-specific conditions. To say, for instance, that there is "lack of BMP implementation" in the large Central Appalachians CBA (pg. 101) is overly broad and unsubstantiated. With strong scientific evidence that forestry BMPs are being implemented at high rates and are effective at protecting water quality, generic statements like these, perhaps referencing very specific instances, should not be used to influence the risk analysis and ultimate designations.  As it does in the HCV 4 section, SAF hopes FSC will acknowledge the effectiveness and high implementation rates of BMPs throughout the updated Risk Assessment. In addition, SAF urges FSC to remove statements related to forest management activities threatening water resources and water quality in CBAs.	Review BMP effectiveness and how this is discussed in the CBA sections. Reach out to local experts as needed.	Economic

		Warrington, B.M., W.M. Aust, S.M. Barrett, W.M. Ford, C.A. Dolloff, E.B. Schilling, T.B. Wigley, and M. C. Bolding. 2017. Forestry best	Review and consider these sources - both related to CBA and to	
1	BMPs		HCV 4	Economic
		4907/8/9/331 The draft wka may also be too quick to dismiss the fisk of legal violations in some areas, and reasonable steps companies might take to		
		respond to concerns when they arise.		
		I would agree that the risk of legal violations in the forestry sector in the US is not on par with the risk in some other countries, and is arguably not the largest concern relative to some other topics in the NRA, e.g., HCVs. However, the risk is also not insignificant, and NRAs are supposed to conduct their analyses at scales that can differentiate areas of risk from areas of non-risk. On page 23, the NRA notes that the Forest Service loses about 25% of citizen suit cases and settles another 25%-ish, indicating that the agency had essentially broken the law in about half of the 1,125 times covered by an analysis of cases between 1989 and 2008. While a member of the prior NRA WG, I also submitted information on more current examples of significant legal violations by the Forest Service and BLM that had serious implications for HCVs and other values. The NRA also notes some less frequent, but still significant, patterns of violations on private and state forest lands, at pages 26, 27, 35, and 40.		
		The prior draft NRA provided a reasonable and balanced solution to this situation, albeit one that could have been conveyed in a manner		
		, , , , , , , , , , , , , , , , , , ,	Discuss with WG; note	
			that the NRA procedure	
			clarifies that the risk designation	
			determination shall	
		products transported across state lines.	consider the frequency of	
			incidence (isolated versus	
		Although this is not highest priority for the NRA, I would still recommend that the FSC consider re-instituting a commensurate version of		
			and severity of violations;	
		, , , , , ,	note that the risk designation used is 'low	
			risk' not 'no risk' or 'non	
R,C			risk'	Environmental

			Note that the risk	
			assessment	
			determination is specific	
			to the forest sector (and	
			threats such as those at	
		The risk assessment for Indigenous and civil rights dates to early 2015, and the findings of low risk may need to be reexamined and	Bears Ears are due to the	
		updated in light of recent developments. Some of the existing assessment appears to have been predicated on the existence of Obama-	oil/mineral/gas sector);	
		era Administrative policies. As is well known, the current Administration has been shrinking and repealing a host of Obama-era policies,	note that the Category 2	
		including ones potentially relevant to the NRA. For example, the Administration has been drastically reducing protections for some	assessment was	
		National Monuments, including ones such as Bears Ears that are very important for the preservation of Indigenous cultural resources	developed in 2017 using	
		and, presumably, for Indigenous Peoples' access to and use of those sites. Likewise, the Administration and Congress are also moving	recent information.	
		forward with initiatives to reduce required impact analyses and protections for federal public lands more generally, which seems likely	Consult with tribes and	
R		to further impact Indigenous Peoples' resources and rights related to those lands.	experts.	Environmental
		The risk assessment for GMOs also dates to 2015 (which means the supporting data may be even older), and definitely should be		
	1	updated in light of recent developments, including with a possible risk finding. The GMO eucalyptus referenced in the NRA has since		
			Review and revise CNRA	
		in doing so, signaled that it will essentially be abdicating its regulatory role over GMO trees, and will no longer be requiring	for Category 5 as needed	
		Environmental Impact Assessments for GMO trees (see for example http://www.centerforfoodsafety.org/press-releases/3713/new-	to account for any	
R	GMOs	genetically-engineered-tree-to-avoid-federal-oversight-completely#).	changes.	Environmental
			This has been done,	
		Perhaps the direction taken in the current draft is unsurprising, inasmuch as economic interests, including some opponents of the FSC	through the actions of	
		and other conservation initiatives, were by far the most vocal participants during the consultation on the prior draft. However, such	the chamber-balanced	
		imbalanced input is itself a challenge needing to be addressed.	Technical Advisory Group,	
			the chamber-balanced	
		As in other FSC decision-making processes, the content of the NRA should reflect chamber-balanced perspectives on risk and Control	Working Groups and	
		Measures, even if the amount and volume of feedback was not itself balanced. I hope FSC US will make this a goal as the process	presentation of comment	
		moves forward. Indeed, I fear that few forest conservation organizations will be commenting on the current draft NRA – though I	summaries to the WG by	
Х	Chamber-bal	strongly suspect many would agree with the perspectives outlined above and below.	chamber, not by volume.	Environmental
	CM 3.a			
	NOTE. Pg		N/A - associated	
	220; CM 4.a		requirement has been	
F		Don't weasel. Either you will or will not provide materials.	removed	Economic
=	1.2.2			
	1			
		The draft NRA also continues to rely on the older CNRA content for its approaches to several important CW categories. While that	Review CNRA findings to	
	1	approach is not inappropriate per se, the CNRA is now somewhat dated, and some obvious and important changes in circumstances	make sure they are still	
1	1		-	
R	CNRAs	have developed. Presumably, FSC should update the NRA/CNRA's findings in these areas.	applicable.	Environmental

			1	
		The NRA's Control Measures for HCV forests and conversion risks rely narrowly on supplier education and thus the assumed good will of forest managers. Supplier education is a constructive and important tool, as far as it goes, but it is highly unlikely to be sufficient by itself. Some forest managers may change their practices simply because purchasers ask them to do so. However, others are already quite aware of how they are impacting HCVs and other values, will chose to continue their practices given their perceived self-interest in doing so, and may even provide false assurances to purchasers. Meanwhile, others may have convinced themselves that they are doing no harm, or may believe industry propaganda to that effect, and will thus unknowingly provide false assurances to purchasers.		
		The draft NRA also exacerbates the likely ineffectiveness of supplier education by providing an explicit loophole, whereby suppliers can feign ignorance about the presence of HCVs in their forests or forests they are sourcing from. At CM 3.a (page 119), the draft NRA states that suppliers need only mitigate threats to HCVs "when these areas are known by a supplier." This phrase should be deleted from the Control Measure, and replaced with an expectation that suppliers will determine whether the HCVs are present in their forests or the forests they are sourcing from. Such an expectation is a basic and necessary component of any credible system of Control Measure or sustainable supply chain management.		
		In addition to conveying expectations to suppliers about avoiding conversion and harm to HCVs, it is also crucial that purchasers (i.e., CW certificate holders) be responsible for ensuring there is some basic level of performance outcome, either in terms of adoption of mitigation measures by their specific suppliers and/or in terms of avoiding fiber from non-compliant suppliers. It is understood that different levels of performance and different means of verifying performance may be feasible in the context of different types of forest product supply chains, including as per information previously submitted to FSC, and as explored in prior drafts of the NRA. However, the current draft NRA is completely silent on the topic, meaning it has failed to address what is perhaps the single most important element of a Controlled Wood system.		
	Control	The FSC also needs to provide basic, effective pathways for effectiveness verification. The proposed regional meetings may be useful forums for further exploring options for development of verification systems. However, the meetings are not a substitute for some		
С	Measures	basic level of performance and effectiveness verification by purchasers that is at least somewhat specific to their own supply chains. If	Discuss with WG	Environmental
		The draft NRA's Control Measures begin to flesh-out an interesting idea from the prior WG's discussions, i.e., to use regional FSC meetings to develop conservation measures tailored to specific forest species or other conservation needs in a given region. I continue to think such meetings could play a very constructive role within a broader system of Control Measures.		
		However, to be effective, these meetings will need to be more carefully defined. For example, the draft NRA does not appear to require that the mitigation measures developed at these meetings be based on the best available science. Instead, the NRA relies solely on an expectation that the meetings be multi-stakeholder, despite the very real risk of uneven participation from environmental, social, and economic interests. Multi-stakeholder participation is important, but is not by itself a sufficient defining characteristic.		
	Control Measures -	Moreover, the NRA and its Control Measures should not rely so heavily on regional meetings that might not actually come to pass, or that might not be successful in producing effective and practical mitigation measures/Control Measures. In other words, the regional		
	Regional	meetings and their outputs need to support and complement rather than replace a more performance oriented system of Control		
R	Meetings	Measures, including as noted below.	Discuss with WG	Environmental

SC considers materials that come from places where forests (natural of semi-hatural) are converted to non-forest use of plantation to be "unacceptable". The NRA (Annex G, pg. 233-241) characterizes risks from conversion based upon a quantitative and qualitative assessment of data and literature. Plantations are defined specifically as "Forest areas lacking most of the principal characteristics and key elements of native ecosystems as defined by FSC-approved national and regional standards of forest stewardship, which result from the human activities of either planting, sowing or intensive silvicultural treatments." Many planted forests in the US, using native species, are therefore not considered plantations in this sense. The NRA completed a quantitative assessment based on available datasets, including USFS Forest Inventory and Analysis (FIA) data, USGS National Land Cover Dataset (NLCD), and USDA National Resources Inventory (NRI). In addition, FSC conducted a literature review examining current and potential threats due to conversion. Several aspects of these assessments deserve attention. Interpretation of Data Uncertainty Two of the data sources used for assessment of conversion risk are based on a thorough, extensive, and robust statistical sampling design (FIA and NRI). These programs provide data that include estimates (such as forest area or timber volume) as well as uncertainty bounds (expressed as sampling errors or confidence intervals). It appears that the explicit estimation of uncertainty for these datasets caused FSC to use undue caution in interpreting results from analyses. In fact, all the datasets used in all portions of the NRA include uncertainty, but only these two datasets provide estimates of that uncertainty. When analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 236), FSC concluded that "it is not possible to quantitatively Revise Category 4 to conclude whether the conversion rates actually exceeded the 0.02% threshold" (p. 237). The NRA also cites a recent NRI report (USDA recognize that the 2015), stating "The National Resources Inventory has indicated a decline in forest land in the three Pacific Coast states" (p. 238). In fact, analyses at a regional the NRI report includes margins of error for these estimates, and the reported forest losses are well below the margin of error scale reflect no signficant (Appendix D), meaning the differences in forest area are not significantly different from zero. difference from zero, but that there is evidence When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null that must be considered hypothesis here would be "forests are not being lost to conversion", and the alternative hypothesis would be "forests are being lost to for assessment at a finer

scale.

Economic

conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative

Economic
Leonomic
Environmental
Economic

	ı			
			FSC is required to	
			consider conversion that	
		1. It is concerning that FSC has chosen to reject the results of a statistical analysis performed by NCASI on a robust FIA dataset. FSC	occurs, regardless of the	
		states that "the rates of forest cover change are so small as to be statistically insignificant" but then follows this with a conclusion that	driver. Revise Category 4	
		it is therefore "impossible to conclusively determine whether any of the forest loss estimates exceed the stated thresholds for this	to recognize that the	
		· · · · · · · · · · · · · · · · · · ·	analyses at a regional	
		evidence that forest loss does not exceed the threshold.	scale reflect no signficant	
		2. The qualitative assessment conducted by FSC specifically cites "urbanization as the strongest pressure for forest conversion". If this is	difference from zero, but	
		the case, it does not seem appropriate to include it as a specified risk that can be mitigated for through forestry sourcing standards.	that there is evidence	
		Designating a risk that is not related to forest management is inconsistent with the methodology FSC used to designate specified risk	that must be considered	
			for assessment at a finer	
R, X		set of HCVs for which meaningful mitigation measures could be effectively developed.	scale.	Economic
.,			Reconsider scale of risk	
			designation and review	
			sources related to	
			conversion in Louisiana.	
		3. If urbanization does present the strongest pressure for forest conversion, and population growth is a surrogate for urbanization, the	Consider the SFFP as an	
		inclusion of the entire state of Louisiana is not appropriate. The Southern Forest Futures Project found that population growth is the	information source for	
		highest at the periphery of urban centers, and specifically pointed out that Alabama, Arkansas, Louisiana, Mississippi, and Texas are	forest conversion due to	
R, I		projected to have lower forest losses than the regional average.	urbanization.	Economic
,		4. The NRA ignored the fact that many jurisdictions are governed by land use ordinances (i.e. zoning laws). While zoning laws are not		
		consistently applied across all jurisdictions, these ordnances are created by zoning boards that are elected by the citizens of local	Zoning was initially	
		communities. The members of these local communities are sovereign to decide the destiny of the development of the land in which	considered, but	
		they have ownership. The NRA should respect the sovereignty of peoples to govern themselves without undue influence from foreign	determined to be too fine	
		involvement. An individual company and/or government can unilaterally decide when to not conduct business in a political territory due	a scale for the NRA - the	
		to the risk of the governing structure. However, the collection of companies protesting or "black-balling" a group of peoples is unethical	assessment would have	
		and could be perceived and construed as unlawful. The NRA should not establish a place of global or national policy influence, especially	taken too long and	
		where markets are void of or lacking for non-FSC participants or landowners are unknowingly regulated or prohibited from accessing	required many additional	
R	Conversion	free markets due to the NRA risk designations.	resources.	Economic
		5. Tax abatement programs and severance tax systems exist in many political jurisdictions. These programs and their benefits were		
		overlooked in the risk designations for conversion. We suggest a comprehensive review of these programs be completed by tax	Discuss with the WG	
		professionals so the influence of these programs to slow forest conversion is considered when establishing risk levels. A comprehensive	whether programs that	
		guide to forest taxation and the influences of these programs can be gleaned from sources such as the Forest Incentive Programs	keep forest as forest are	
		Available from State Sources Database, FS Landowners Tax Guide, Current Status and Trends in Timber Severance Tax Legislation in the	adequate to counter the	
I	Conversion	South and analysis provided in the Handbook of Global Environmental Politics. (hyperlinks in comment document)	threat of urbanization.	Economic
			designated at a regional	
			scale; note that the	
			regions used throughout	
		6. Respectfully caution the NRA working group that the perception of Gerrymandering the conversion risk designation by substituting	the Draft 2 NRA are	
		the WWF ecoregions for Baileys ecoregions is apparent.	those established for the	
		Bailey's Ecoregions: https://www.fs.fed.us/rm/ecoregions/images/maps/ecoregions-united-states.jpg	FM Standard and were	
Χ	Conversion	WWF Ecoregions: https://databasin.org/maps/b6344b8c699d4ac383e15611bb3f3a35/active	not any different for	Economic
^	CONVENSION	YV VVI ECOTESTOTS. https://watabashholg/maps/bood-4-bocossad-acsosetsottbusisass/active	not any uniterent for	LCOHOITIC

				1
		State-level risk of conversion to non-forest is a reasonable scale to assess and implement control measures to avoid "conversion		
		sources" for states that are predominately naturally forested such as GA, AL, MS, AR. For states with substantial portions that are not		
		naturally forested the conversion assessment should be confined to portions of the state (counties/parishes) that are predominately		
		naturally forested. Portions of states that are not predominantly naturally forested should be excluded since they are by definition low		
		risk. For instance, the western two thirds of Texas and the coastal marsh parishes of Louisiana should be excluded. Both FIA and NRI	Refine specified risk area	
		data can be reliably applied at state and sub-state forested region scales to provide reliable estimates of forest conversion to non-	by clipping out non-	
R	Conversion	forest.	forested areas.	Economic
		This publication was cited in the NCASI comments, so at least reference to it was made prior to the deadline. I had intended to	when revisiting	
		incorporate some comments on it and then inadvertently left them out.	conversion for the final	
			draft. Need to consider	
		area in North America, and the US in particular. See:	that the scale of the	
		> Page 8, item 3 at bottom. This item indicates "reduced pressure on forests as a result of economic growth" as a factor in increased	document is national, but	
		forest area.	there is evidence that	
		> Page 13, figures 2.2 & 2.3	conversion needs to be	
		> Page 16, figure 2.7	addressed at a finer	
		> Page 18, figure 2.8	scale; note that	
		> Page 21, figure 2.9, this one shows the primary driver of forest conversion in America is agriculture, not urban expansion. Urban	urbanization is identified	
l	Conversion	expansion is an extremely small percentage.	by many other credible	Economic
		With respect to Controlled Wood Category 4, the NRA completed a quantitative assessment of forest conversion rates based on	FSC is required to	
		available datasets, including US Forest Service Forest Inventory and Analysis (FIA) data, US Geological Survey National Land Cover	consider conversion that	
		Dataset (NLCD), and US Department of Agriculture National Resources Inventory (NRI). In addition, FSC US conducted a literature review	occurs, regardless of the	
		examining current and potential threats due to conversion. The results of the analyses of FIA and NRI data indicate that there is no	driver. Revise Category 4	
		statistically significant evidence of forest conversion that would constitute a threat. We suggest that it is not appropriate to determine	to recognize that the	
		current conversion risk primarily on the basis of data or reports that are more than a decade old, or involve modeled projections of	analyses at a regional	
		possible future scenarios, when current, spatially comprehensive data (FIA and NRI) are available. The NRA also proposes adopting	scale reflect no signficant	
		population or urbanization growth as a proxy for forest conversion, but does not establish a quantitative connection between such	difference from zero, but	
		growth and forest conversion. We suggest that FSC US rely on FIA and NRI data, which are based on nationwide statistical sampling	that there is evidence	
		designs that enable them to report uncertainty bounds (sampling errors or confidence intervals) for their estimates (forest area or	that must be considered	
		biomass), and that FSC US accept the scientifically-sound interpretation of "no significant difference" as determined using these data	for assessment at a finer	
R	Conversion	for what it is: an indication that there is no evidence of risk of conversion.  All the datasets used in the NKA (e.g., DAF, NCCD, Natureserve) have inherent uncertainties. Only two or these datasets (FIA and NKI)	scale.	Economic
		are based on nationwide statistical sampling designs that enable them to report uncertainty bounds (sampling errors or confidence		
		intervals) for their estimates (forest area or biomass). It appears that the reporting of uncertainty for these datasets caused FSC US to		
		use undue caution in interpreting results from analyses.		
		Analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 236). The NRA	FSC is required to	
		notes that a recent NRI report (USDA 2015) " has indicated a decline in forest land in the three Pacific Coast states" (p. 238). However,	consider conversion that	
		that NRI report includes margins of error for their estimates, and the reported forest losses are well below the margin of error	occurs, regardless of the	
		(Appendix E), meaning the differences in forest area are not significantly different from zero.	driver. Revise Category 4	
		From these sources FSC US determined that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded		
		the 0.02% threshold" (p. 237). In fact, though, the analyses of FIA and NRI data are conclusive: there is no statistically significant	analyses at a regional	
		evidence of forest conversion that would constitute a threat.	scale reflect no signficant	
		When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null	difference from zero, but	
		hypothesis here would be "forests are not being lost to conversion", and the alternative hypothesis would be "forests are being lost to	that there is evidence	
		conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative	that must be considered	
		hypothesis. In the analysis of FIA data, it was demonstrated that measured changes in forest area were not statistically different from	for assessment at a finer	
R	Conversion	zero, meaning that there is insufficient evidence to reject the null hypothesis of no change	scale.	Economic
		, , , , , , , , , , , , , , , , , , , ,	1	-

	1	Trad administration that demander from phased mineral process (material or administration) and demants to men release and or phantasterists		
		be "unacceptable". The NRA (Annex G, pg. 233-241) characterizes risks from conversion based upon a quantitative and qualitative assessment of data and literature. Plantations are defined specifically as "Forest areas lacking most of the principal characteristics and		
		key elements of native ecosystems as defined by FSC-approved national and regional standards of forest stewardship, which result from the human activities of either planting, sowing or intensive silvicultural treatments." Many planted forests in the US, using native species, are therefore not considered plantations in this sense.		
		The NRA completed a quantitative assessment based on available datasets, including USFS Forest Inventory and Analysis (FIA) data, USGS National Land Cover Dataset (NLCD), and USDA National Resources Inventory (NRI). In addition, FSC US conducted a literature review examining current and potential threats due to conversion. Several aspects of these assessments deserve attention.	FSC is required to consider conversion that occurs, regardless of the driver. Revise Category 4	
		It appears that FSC US seeks a statistically significant demonstration, or proof that forest conversion rates are less than threshold values. This is akin to requiring proof of the absence of endangered species or biodiversity elements in a landscape before finding low risk of sourcing from areas with HCVs. It is a reversal of the burden of proof from seeking evidence of risk to seeking evidence of the absence of risk. As such, this is fundamentally incompatible with other portions of the NRA.	to recognize that the analyses at a regional scale reflect no signficant difference from zero, but	
		FIA and NRI data has been used in broader assessments of forest area change (Wear and Greis 2002, FAO 2016) that conclude that US forest area is stable, and conversion (when it does occur) is driven by agriculture or development. We suggest that FSC US accept the scientifically-sound interpretation of "no significant difference" for what it is: an indication that there is no evidence of risk of	that there is evidence that must be considered for assessment at a finer	
Х			scale.	Economic
		this question and determine if any proxies existed that could be used to assess conversion in a more qualitative manner" (p. 237). From this literature review, "FSC US staff concluded that urbanization and population growth present the best possible proxy for forest conversion in this risk assessment" (p. 237). However, several conclusions from the literature review are supported not by data or analyses of current forest conditions, but from older data or modeling exercises that analyze possible future scenarios. Older data (more than a decade) are unreliable when conditions are changing rapidly. Conversion of forest, especially to urban uses, is by nature a highly dynamic phenomenon. Furthermore, it has been demonstrated that modeled projections of forest conditions, even from expert modelers, have frequently failed to accurately forecast forest changes. Buchholz et al. (2014) found that all four Resources Planning Act (RPA) projections between 1960 and 2000 were less accurate than a no-change (constant reference) baseline in predicting future forest conditions. Therefore, older data and projections are no substitute for current data such as that collected annually by FIA.  The following statements from the NRA appear to be reporting recent measured changes, but are citing publications that are more than a decade old, or involve models and projections:  "This leaves urbanization as the strongest pressure for forest conversion, a conclusion that is supported by numerous sources [Sources: 2, 4, 5, 6, 7]." (p. 237)		
		"the Southeast and Pacific Coast regions are experiencing forest loss and concurrent rapid population growth [Source 2]." (p. 237) "the highest rates of urbanization are occurring in the Piedmont region from northern Georgia through North Carolina into Virginia. Forest loss is also occurring along the Atlantic Coast and in eastern Texas [Source: 4,5,6,7]." (p. 237) "Despite the high rates of urban growth across the Southeast, there are some states that are experiencing lower rates of population growth and forest loss, including Mississippi, Alabama and Arkansas [Source 7]." (p. 237) "The Pacific Coast Region is also experiencing urban growth leading to conversion from forest to non-forest land use, though this growth appears to be concentrated on the western portions of Washington and Oregon [Source 3,11]." (p. 237-238)	recent as possible; look	
1	Conversion		for additional as needed.	Economic

possible future scenarios.  NRA Source 3. Conversion Potential, Pacific Northwest (based on Wilson et al., 2014). The website reference used as a source includes a map from Wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Wilsossippl), using the Sturtur wilson et al. (2014). This article reports on development in the wilson et al. (2014). This report is a synthesis and summary of ot		ı	The prier descriptions of the NRA sources cited (below) illustrate now these are largely older data and/or modeled projections of		
NRA Source 2: Alig. et al. (2003). This publication is based on data only up to 1997. From that point, projections are made based on econometric models up to 2050.  NRA Source 3: Conversion better al. (2014) state "Using a state-and-transition simulation model, we modeled spatially explicit (1 Lm2) land use from 2000 to 2100 under seem alternative land-use and emission scenarios for economic in the Pacific Northwest".  NRA Source 4: Southern Forest Futures Project (Wear and Greis, 2013). This report summarizes an extensive modeling effort that defines six alternate futures (termed "Cornerstone Futures"), and projects forest conditions under each one. Econometric models are then used to project alone used on the control of the pacific Northwest".  NRA Source 4: Southern Forests for the Future (WRI; Hansen et al. 2010). This publication does not develop new research or data, but summarizes information from other reports, such as RPA assessments. Their discussion of forest cover loss to development is based on data reported in the Southern Forest Assessment published in Occur.  NRA Source 6: Ternando, et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Mississipp), using the SELIVIHI throan growth model. The model crojects urban extensive fore 2009 to 2060.  NRA Source 7: Alig., et al. (2010): This report is a synthesis and summary of other publications and studies, but repeatedly cites trend data only up to 1997. The report then cites studies involving econometric projections into the future.  NRA Source 1: Bradlew, et al. (2007): This report from the Rural Technology Initiative at Washington State University used FIA data from 2001, and published USSF reports from 1997 and 2001, as well as satellite imagery analysis from 2004 and earlier.  NRA Source 1: Bradlew, et al. (2007): This report from the Rural Technology Initiative at Washington State University used FIA data from 2001, and published USSF reports from 1997 and 2001, as well as satellite imager					
econometric models up to 2050.  NRA Source 3: Conversion Potential, Pacific Northwest (based on Wilson et al., 2014). The website reference used as a source includes a map from Wilson et al. (2014). Wilson et al. (2014) state "Using a state-and-transition simulation model, we modeled spatially explicit (1 kmr.) and use from 2000 to 2100 under seven alternative land-use and emission scenarios for corcegions in the Pacific Northwest".  NRA Source 4: Southern Forest Futures Project (Wear and Greis, 2013). This report summarizes an extensive modeling effort that defines is alternate future (termed "Correstone Futures"), and projects forest conditions under one. Econometric models are then used to project land use under the cornerstone futures, and projects forest conditions under one. Econometric models are then used to project land use under the cornerstone futures, and projects forest conditions under one. Econometric models are then used to project land use under the cornerstone futures, and projects of the condition ones not develop new research or data, but summarizes information from other reports, such as RPA assessments. Their discussion of forest cover loss to development is based on data reported in the Southern Forest Assessment published in 2002.  NRA Source 6: Terrando, et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Mississpip), using the Sticitur in urban growth model. The model projects urban extents from 2000 to 2050.  NRA Source 7: Alig, et al. (2010): This report is a synthesis and summary of other publications and studies, but repeatedly cites trend data only up to 1997. The report then cites extudies involving econometric projectious into the future.  NRA Source 11: Bradley, et al. (2001): This report is a synthesis and summary of other publications and studies, but repeatedly cites trend data from 2001, and published MSST seports from 1997 and 2001, as well as satellite imagery analysis from 2004 and earlier.  While we suggest tha			passing 1868 6 5551817501		
It Mm2   land use from 2000 to 2100 under seven alternative land-use and emission scenarios for ecoregions in the Pacific Northwest*.			econometric models up to 2050.  NRA Source 3: Conversion Potential, Pacific Northwest (based on Wilson et al., 2014). The website reference used as a source includes a		
defines six alternate futures (termed "Cornerstone Futures"), and projects forest conditions under each one. Econometric models are then used to project land use under the cornerstone futures using projections of population, personal income, and timber price projections.  NRA Source S. Southem Forests for the Future (WRI; Hansen et al. 2010). This publication does not develop new research or data, but summarizes information from other reports, such as RPA assessments. Their discussion of forest cover loss to development is based on data reported in the Southern Forest Assessment published in 2002.  NRA Source 6. Ternando, et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Mississippil), using the SLEUTH urban growth model. The model focuses on spatial patterns, and does not account for economic or demographic drivers. Instead, it is based on (1) barriers to development from topography or water, (2) topographic data, (3) transportation networks, and (4) patterns of historic urban extent. The model projects urban extents from 2009 to 2060.  NRA Source 7: Alig, et al. (2010): This report is a synthesis and summary of other publications and studies, but repeatedly cites trand data only up to 1997. The report then cites studies involving econometric projections into the future.  NRA Source 11: Bradley, et al. (2007): This report from the Rural Technology initiative at Washington State University used FIA data from 2001, and published USFS reports from 1997 and 2001, as well as stellitle imagery subject of the state of the future.  We suggest that it is not appropriate to determine current conversion risk primarily based on data or reports that are more than a decade old, or involve modeled projections of possible future scenarios, when current, spatially comprehensive data (FIA and NRI) are accessed and cold, or involve modeled projections of possible future scenarios, when current, spatially comprehensive data (FIA and NRI) are accessed and accessed and a			(1 km2) land use from 2000 to 2100 under seven alternative land-use and emission scenarios for ecoregions in the Pacific Northwest".		
projections.  NRA Source 5: Southern Forests for the Future (WR): Hansen et al. 2010). This publication does not develop new research or data, but summarizes information from other reports, such as RPA assessments. Their discussion of forest cover loss to development is based on data reported in the Southern Forest Assessment published in 2002.  NRA Source 6: Terrando, et al. (2014). This article reports on a set of simulations of urban growth in southeastern states (east of the Mississippi), using the SLEUTH urban growth model. The model focuses on spatial patterns, and does not account for economic or demographic drivers. Instead, it is based on (1) barriers to development from topographic adds at (3) transportation networks, and (4) patterns of historic urban extent. The model projects urban extents from 2009 to 2060.  NRA Source 7: Alig. et al. (2010): This report is a synthesis and summary of other publications and studies, but repeatedly cites trend data only up to 1997. The report then cites studies involving econometric projections into the future.  NRA Source 11: Bradley, et al. (2007): This report from 1997 and 2001, as well as satellite imagery analysis from 2004 and earlier.  We suggest that it is not appropriate to determine current conversion risk primarily based on data or reports that are more than a decade old, or involve modeled projections of fossible future scenarios, when current spatially comprehensive data (Flad and NRI) are cereant as possible, look for additional as needed.  Conversion  Conversion  This is the scale of the county level, the conversion risk designation is applied at the state level, "because this is the scale of information that is most consistently available across the aspected of the NRA.  Before adopting population or urbanization growth as a pipor of forest conversion, it is necessary to establish a quantitative connection between such growth and forest conversion. This has not been documented in the NRA.  While we maintain that there is no need for a proxy for conv			defines six alternate futures (termed "Cornerstone Futures"), and projects forest conditions under each one. Econometric models are		
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transportation networks, and (4) patterns of historic urban extent. The model projects urban extents from 2009 to 2060.  NRA Source 7: Alig, et al. (2010): This report is a synthesis and summary of other publications and studies, but repeatedly cites trend data only up to 1997. The report then cites studies involving econometric projections into the future.  NRA Source 11: Bradley, et al. (2007): This report from the Rural Technology Initiative at Washington State University used FIA data from 2001, and published USFs reports from 1997 and 2001, as well as satellite imagery analysis from 2004 and earlier.  We suggest that it is not appropriate to determine current conversion risk primarily based on data or reports that are more than a decade old, or involve modeled projections of possible future scenarios, when current, spatially comprehensive data (FIA and NRI) are as recent as possible; look for additional as needed.  While the NRA notes "FSC US staff concluded that urbanization and population growth present the best possible proxy for forest conversion in this risk assessment" (p. 237), it is unclear what data were used to determine urbanization and population growth rates, or how the analysis was conducted, or what thresholds were used. While many of the risk designations in the NRA have geographic regions defined at the county level, the conversion risk designation is applied at the state level, "because this is the scale of information that is most consistently available across the assessment area" (p. 238). However, the US Census Bureau is the authoritative source for data on US population trends, and these data are available at a variety cales including at the county-level data should be used when appropriate for compatibility with other portions of the NRA.  Before adopting population or urbanization growth as a proxy for forest conversion, it is necessary to establish a quantitative connection between such growth and forest conversion. This has not been documented in the NRA.  While we maintain that t					
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A CO 1 FSC Regions will work as an effective coarse-level framework.	R	CQ 1	where it exists and may have to be more granular than the FSC FM Regions.		Economic
A CO 1 FSC Regions will work as an effective coarse-level framework.					
- 1-2- 1-2-30-sing time to the control of the contr	Α	CQ 1	FSC Regions will work as an effective coarse-level framework.	n/a	Economic

			Use WWF ecoregions as	1
		No. Some of the specified risk area borders do not align with defined, scientific-based areas. The boundaries for the FSC Regions should	an additional layer on top	
1				
		more closely align with WWF Ecoregions to better reflect habitat conditions in various geographies. This will better reflect actual	of the FSC US regions	
		habitat conditions. Grouping of similar ecoregions would be much better than the way it is now.	when it makes sense.	
		Another concern is that FSC did not draw actual biodiversity areas but rather large non-scientific "blobs" on the maps in the general	Double-check CBAs and	
		locations of the areas. Previously, risk designations for individual ecoregions took into account the amount (acreage) of protected lands	protected lands, and	
R	CQ 1	within that ecoregion. This is apparently not the case with this assessment	clarify in text that the	Economic
		Yes – I think they are fine. There are multiple ways one could slice the data, but this makes the most sense and fits with a regional scale		
Δ	CQ 1	that most stakeholders and certificate holders are familiar.	n/a	Economic
	CQI	The FSC FM Regions are certainly acceptable for low risk designations. However, for findings of specified risk, the smallest possible	ii, u	Leonomic
		scale should be used, as many States (and potentially localities) will have programs in place that could mitigate that risk to low in the	Consider a finer scale	
l		NRA; certainly something that should be reviewed and determined prior to finalization. This is especially true when looking at	than region when there is	
A, R	CQ 1	conversion.	specified risk	Economic
			Consider a finer scale	
			than region when there is	
A, R	CQ 1	These regions are effective for the first level of analysis. County boundaries are preferred at the finer scale.	specified risk	Economic
		In general, the FSC Regions are well understood and useful as a course filter approach. Certain aspects of the risk assessment only		
		pertain to specific smaller areas within the regions and should not dictate overall risk designations for the FSC Region. For example, the		
		evaluation of Critical Biodiversity Areas can themselves overly delineate areas of specific concern outside the scope of the intended	Consider a finer scale	
		area. Other references included in the Technical Comments provided by the National Council For Air and Stream Improvement (NCASI)	than region when there is	
	60.4			F
A, R	CQ 1	are included as an attachment for your review on this and other pertinent aspects.	specified risk	Economic
		The FSC FM Regions are acceptable for low risk designations. However, for findings of specified risk, the smallest possible scale should	Consider a finer scale	
		be used, as many states (and potentially localities) will have programs in place that could mitigate that risk to low in the NRA. This is	than region when there is	
A, R	CQ 1	certainly something that should be reviewed and determined prior to finalization.	specified risk	Economic
Α, Ν	CQ I	No Comment	specified fisk	LCOHOITIC
		NOTE: Many of the Consultation Questions are focused on implementation issues or topics outside our forestry expertise. Where there is		
		no forest science basis for a response, we have answered "No Comment". Throughout our comments we cite scientific publications and		
		data presented in Appendices. These references and appendices can be found in the attached document "NCASI_Technical		
X	CQ 1	Comments_FSCUSNRA.pdf"	n/a	Economic
		The logic behind the regional designation seems well-reasoned. I am somewhat unclear about why some states are entirely excluded		
Α	CQ 1	from the Southeastern Specified Risk designation.	n/a	Environmental
	00.1			
A	CQ 1	The regions are effective.	n/a	Economic
		The FSC FM Regions are certainly acceptable for low risk designations. However, for findings of specified risk, the smallest possible	Consider a finer scale	
		scale should be used, as many States (and potentially localities) will have programs in place that could mitigate that risk to low in the	than region when there is	
A, R	CQ 1	NRA; certainly something that should be reviewed and determined prior to finalization.	specified risk	Economic

		comment: we have found the Pacific Coast Region, as FSC-US defines it for the draft CW NRA (Annex B) and the Fivi standards, to be		
		highly problematic both for ecological and operational reasons. FSC-US's Pacific Coast Region follows state lines, but it would be more		
		appropriate to establish multiple regions in the west based on internationally agreed-upon ecological regions, such as those designated	Canaidan a finan asala	
		by the EPA. It appears that, for parts of the Southeast and Midwest, FSC-US has done exactly that; regions in those parts of the country	Consider a finer scale	
			when developing risk	
		there are four Level I Ecoregions with discrete species compositions, management patterns, climates, and natural disturbance patterns.	designations, such as EPA	
		We are unaware of any ecological or administrative benefits to lumping these three states into one homogenous region for the	Level I Ecoregions or	
R	CQ 1	purposes of risk analysis or forest management practices.	WWF Ecoregions	Economic
		The FSC FM Regions are certainly acceptable for low risk designations. However, for findings of specified risk, the smallest possible	Consider a finer scale	
		scale should be used, as many States (and potentially localities) will have programs in place that could mitigate that risk to low in the	than region when there is	
A, R	CQ 1	NRA; = certainly something that should be reviewed and determined prior to finalization.	specified risk	Economic
		Yes, the FSC regions are effective. I always thought it was strange that the Appalachian region stretched from the New Jersey Atlantic		
		coast to the western Tennessee border of the Mississippi River. FSC-US could consider extending the Great Lakes region down into the		
		central and western portions of Tennessee and Kentucky as the topography and forest types better align than with the Appalachian		
		Region. Eastern Pennsylvania and New Jersey should be considered with the Northeast Region. The Appalachian Region could also be	Consider overlaying EPA	
		extended up into western/central New York.	or USFS ecoregion maps	
		US EPA (https://www.epa.gov/eco-research/ecoregions-north-america) and the US Forest Service	on the regions for	
		(https://www.fs.fed.us/rm/ecoregions/products/map-ecoregions-north-america/) have general ecoregion maps that might better	specified risk	
A,R	CQ 1	correspond to the forest types of America. But I understand it would be difficult to change the FSC regions at this time just for the CW	designations	Economic
		No, the FSC regions are not effective for differentiating boundaries. The use of State based boundaries are unnatural and overly broad.	Consider a finer scale	
		A better method would be to use counties as this is the approach taken in Bright Wood's company RA. Additionally, it aligns with the	than region when there is	
R	CQ 1	scale ticket system, linking origin and final product.	specified risk	Economic
IX.	CQ I	Scare ticket system, mixing origin and mai product.	эресптей тізк	Leonomic
		For most of the designations, yes. For conversion they are far too large. Conversion needs to be assessed at the finest	Use counties for the	
A, R	CQ 1	possible/practical scale.	assessment	Economic
		Glatfelter incorporates by reference the set of comments submitted by the National Council for Air and Stream Improvement (NCASI) in		
		its entirety. You will also find reference throughout the responses to specific incorporations of comments by NCASI. Glatfelter has no		
v	CQ 1	additional comment on this question.	n/a	Economic
^	CQI	additional comment on this question.	ii) a	LCOHOTTIC
		Yes, but only because of the inclusion of a 'Specified' notation that indicates that there is specified risk designated within the region, but		
Α	CQ 1	it is usually not the entire region.	n/a	Economic
Α	CQ 1	Yes, the coarse-level approach is effective.  Being that the NRA evaluates risks that change with both political boundaries and boundaries related to natural features, it is	n/a	Economic
		understandably difficult to identify one geographic framework for use with this document. Using the FSC Regions however, seems to fail		
		on multiple fronts by imposing unnatural boundaries, particularly where a specified risk has been identified. The current approach used		
		in company risk assessments is to define a supply area by county boundaries. This is a more effective approach for several reasons, but	Consider a finer scale	
		perhaps most importantly because it is easy to track through a scale ticket system; thereby completing the connection between origin,	than region when there is	
D	CO 1		_	Economic
Λ	CQ 1	and labeled final product.	specified risk	Economic

regions don't necessarily match Id feature landscapes when Ic area as at risk for Mesophytic Inerally be located at elevations In true mountain counties along In west side management concerns	Consider WWF ecoregions on top of the	
nerally be located at elevations e true mountain counties along		
nerally be located at elevations e true mountain counties along	ecoregions on top of the	
e true mountain counties along		
9	FSC regions to better	
	represent the extent of	
es is another example where one	mesophytic cove sites for	
is to another example time a circ	the specified risk area	Economic
	the specifica fisk area	Leonomic
le for targeted risk identification		
	n/a	Economic
and wall understood ESC US		
	7/2	Economic
use.	, -	ECOHOITIC
ry practices acts) and their		
ites that cross over regional		F:-
	appropriate for	Economic
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	n/a	Social
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ream Improvement (NCASI) in		
oughout the responses to specific		
	n/a	Economic
y managed at the Federal and	Consider states as	
It should be noted that Alaska is	boundaries for risk	
anada), as there is a fair amount	designations when	
of the CW volume on the west	appropriate for	
ace.	information available.	Economic
	n/a	Environmental
	Consider a finer scale	
	-	Economic
	opecined risk	LCOHOITIC
	n/a	Economic
v s y I a c	ween Eastern WA and OR and species, growth rates, and managed at the Federal and It should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west	n/a  Ind well-understood FSC-US use.  Ty practices acts), and their tes that cross over regional  Indexem Eastern WA and OR and species, growth rates, and  Indexem Improvement (NCASI) in pughout the responses to specific n/a  Indexem Improvement (NCASI) in pughout the responses to specific n/a  Indexem Improvement (NCASI) in pughout the responses to specific n/a  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.  Indexemplay managed at the Federal and lit should be noted that Alaska is anada), as there is a fair amount of the CW volume on the west ce.

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			when developing risk	
		The FSC regions are a useful starting point and FSC has done a good job using the regions as an organizational framework. Also see our	designations, such as EPA	
R	CQ 1	comments on sub-regional and sub-state level recommendations for conversion assessments.	Level I Ecoregions or	Economic
		The region designations are an adequate starting point for coarse-level framework, though they should be reviewed and refined		
		periodically so that they indeed reflect physiographic homogeneity as much as possible, particularly with respect to control measures		
		and mitigation measures that are yet to be developed.	Start with regions and	
R	CQ 1	It is not clear in the NRA what criteria were used to determine the region boundaries.	refine when possible.	Economic
11	CQ 1		Terme when possible.	LCOHOITIC
		No strong opinion. Given it has been some time since the boundaries were established, it is worth reevaluating in the FM revision to		
		ensure they are appropriate ecologically, and then informed by governance factors in the respective regions for as consistent as possible		
		an application of the FSC requirements within a region. The FSC Regions are currently appropriate for the NRA's coarse-level	Regions will be reviewed	
		framework, however, we expect they may need to be revisited at the next NRA revision and/or to keep the NRA boundaries consistent	as part of the FM	
Χ	CQ 1	with FM standard boundaries.	revision.	Environmental
x	CQ 10	No	n/a	Economic
	1 2 2		.,, .	
Х	CQ 10	No	n/a	Economic
Х	CQ 10	I am not	n/a	Environmental
Х	CQ 10	No	n/a	Economic
Х	CQ 10	No	n/a	Economic
х	CQ 10	No	n/a	Economic
		World Heritage Forest Programme - http://whc.unesco.org/en/forests/		
		Most research appears to be international – Europe and Australia.	Consider these sources	
I	CQ 10		and use as applicable	Economic
Х	CQ 10	This is a fairly open ended question, i.e., what defines effective?	n/a	Economic
			Look for these kinds of	
		Management plans for State and Federal Forests should be included in the review. Landscape management plans administered by the		
ı	CO 10			Economic
		Management plans for State and Federal Forests should be included in the review. Landscape management plans administered by the	Look for these kinds of sources and use when	
1	CQ 10	American Tree Farm System in conjunction with stakeholders in designated locals should be considered.	applicable.	Economic

Х	CQ 10	Not at this time.	n/a	Environmental
		We believe that more emphasis should be placed on the NRA at this time and less on the future development. The completion of this		
		NRA and deep research into those areas stated as specified risk is of utmost importance to manufacturers that would like to continue		
Х	CQ 11a	participating in the FSC program.		Economic
Χ	CQ 11a	Consensus is not likely in the Pacific Northwest. FSC should not be used to "gain control" over public land management.		Economic
		It is inappropriate to be asked to support or oppose "educational information" when we haven't even seen it. We oppose the concept of		
		mandatory education information as this should be more of a mitigation option/activity discussion. That way we can determine the		
		most appropriate information and whether it is an option chosen.		
		With lack of alignment on the identified specified risk areas in the draft NRA and mitigation measures not yet identified to manage		
		risks, it is impractical to solicit support of mandatory avoidance of sourcing from these areas or expect suppliers to implement yet-to-be-		
С	CQ 11a		Discuss with WG	Economic
		adoption of the NRA and the collation of regional meeting data (for additional control measures) what can companies do still believe		
		they can safely source in areas of specified risk in addition to the prescribed measures? 2) I would strongly suggest an alternative 3rd		
		control measure to those prescribed in the regional meetings that provides equal or greater protection than those other measures and is		
		approved by either the CB or FSC-US. Providing additional flexibility in the early stages will provide companies that source CW a better		
		level of confidence that they can maintain their supply chain (this may also provide opportunities to see creative methods not thought of		
		in the group meeting). I know the goal is to get everyone to the regional meetings, but it may not happen and by doing this, FSC-US		
		would enable additional creative thinking outside of regional meetings in terms of control measures. Also, I would propose that in the		
		interim between development of CM's from regional meetings and adopting the NRA; that where supply chain intersects with areas of		
		specified risks; sources be allowed to develop control measures that mitigate or avoid the specific threats posed in specified risk areas	Discuss with WG;	
_		[	consider 'avoid' as an	
C	CQ 11a	let's not lock folks out of managing forests in a positive way in high risk areas.	alternative CM	Economic
		The concept of a Regional Meeting to determined mitigation options is sound. However, the reliance solely on a meeting that may not be any more productive than many balanced chamber ESC meetings may be problematic. Are the rules of ESC concepts the same for		
		be any more productive than many balanced chamber FSC meetings may be problematic. Are the rules of FSC consensus the same for Regional Meetings? Will it just be an across the board majority vote? These issues need to resolved prior to the meetings.		
		It seems that it would make more sense to implement the contingency plan of a "small goup of CH and other stakeholders" to have an initial meeting to identify and parrow down notential mitigation onlines and then bring those to the larger group Regional Meetings	Regin engagement on	
		initial meeting to identify and narrow down potential mitigation options and then bring those to the larger group Regional Meetings.  This might take more time but we have to get it right from the beginning. There are already many CH that are contemplating dropping	Begin engagement on mitigation options prior	
C	CQ 11a	CW or the FSC completely and a dysfunctional, non-productive Regional Meeting may be sufficient for them to leave.	to the meetings	Economic
_	CQ 110	1244 of the 132 completely and a dystanctional, non-productive neglonal infecting may be sufficient for them to leave.	to the meetings	LCOHOHIIC

CM 3.a: Supportive, depending on the nature and content of the materials developed.  CM 3.b: Supportive, depending on the timing of the meetings and quality and usefulness of the discussions and information made available. In framing the meetings an emphasis should be placed on an adaptive management approach, wherein any mitigation measure with at least some chance of being effective is included initially, pending results of effectiveness monitoring over time. The meetings will attract people who want to develop useful information and practical options only if potential meeting participants understand the goal is to advance conservation efforts and advance the practice of forestry, not to designate "no harvest" areas or "monkey-wrench" the practice of forestry.  CM 3.c: Supportive, but somewhat skeptical. Advance work is critical, including attracting collegial participants, providing useful advance materials, and having some good, partially-formed mitigation options drafted well in advance so that economic chamber members can pre-assess them. Again, any mitigation option with at least some chance of being effective should be included initially sthat a range of options is available for possible implementation.  Separate pre-meetings or breakout sessions should be held for species-specific HCVs with limited ranges (Dusky Gopher Frog, Houston Toad, Patch-nosed Salamander)	o Begin engagement on	
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	mitigation options prior	
n no ca a cinan Parci-nosen Salamannen	to the meetings	Economic
FSC certificate holders to attend regional meetings that will "identify a focused set of actions to reduce risk of sourcing materials"	to the meetings	Leonomic
from specified lands. The identification and implementation of these actions may continue to raise antitrust concerns and adds anothe	r	
resource burden to companies attempting to comply with the Controlled Wood Standard. The additional activities required by certified		
companies along with the complexity of this issue will likely result in many companies (especially smaller organizations without		
available resources) that will decide to give up their FSC certifications.	L	
Several topics have ambiguity and a strong potential for the lack of consensus to determine mitigation actions. It is disingenuous to as		
companies to agree to distribute promotional materials that have not yet been produced. Will companies be offered the opportunity to		
review & comment on drafts? Will companies be allowed to edit or amend the material? Even assuming good faith on all sides, there		
may be sincere disagreements about content, style, and messaging. Will materials actively promote FSC, or simply address the specific	ε	
topics associated with HCV/conversion risk? This initiative looks suspiciously like the SFI program which has required outreach to		
suppliers and landowners on similar and related topics since its inception. Distribution systems and program support are fully		
established, funded, and stable. Will current publications of similar information satisfy the proposed mitigation actions? If so,		
shouldn't they also be considered as established practices that would support a low risk designation for the appropriate categories?		
The simple requirement to engage (attend or follow) in a program of regional CW dialogs is likely to be healthy for the program over		
time. The proposed format, however, appears to be excessively aspirational, and raises some vexing questions. Stated objectives are		
extremely broad and potentially contradictory. Success of some objectives appears essential for program implementation while other		
are merely desirable. This model has the added concern of companies, including companies not present, being required to "provide		
information requested in the report." This is vague and may raise concerns of shared privileged business information. A lack of detail o	n	
what types of actions would have to be taken by a company attempting to comply with the NRA add additional concerns for companies		
attempting to review and provide useful input.	Contract with a	
The meeting format includes some key decision-making in order to agree on the required "set of actions" that will be mandatory for	professional facilitator to	
companies to complete. No format or protocol for this decision-making is proposed however. Given the likely diversity of stakeholders	ensure effective decision-	
CQ 11a at these meetings, consensus may be challenging. Will the decisions be subject to voting? Will companies unable to attend be	making	Economic
While we are supportive of the control measures in theory, pending determination of their final content, we believe that too much	0	
emphasis is being placed on a future development, via regional meetings, rather than addressing issues at the most basic level in the		
draft NRA. The more areas of specified risk that can be reduced to low risk, through research at the NRA level, the more likely the		
C CQ 11a success of the future regional meetings.	Discuss with WG	Economic
A CQ 11a Yes	n/a	Environmental
	Tily u	Liviioiiiieiitai
The control measures are likely supportable, but without knowing the extent of the mitigation measures, I do not have complete		Fooners:-
X CQ 11a information to answer.		Economic

С	CQ 11a	While we are supportive of the control measures in theory, there is also concern that the regional meetings may not be as productive as participants may hope, and that they could just devolve into chamber bickering. We believe that too much emphasis is being placed on a future development (regional meetings) rather than addressing issues at the most basic level (the NRA). The more areas of specified risk that can be reduced to low risk, through research at the NRA level, the more likely the regional meetings are to be successful.	Discuss with WG	Economic
		While we are supportive of the control measures in theory, there is also concern that the regional meetings may not be as productive as		
		participants may hope, and that they could just devolve into chamber bickering. We believe that too much emphasis is being placed on a		
C	CQ 11a	future development (regional meetings) rather than addressing issues at the most basic level (the NRA). The more areas of specified risk that can be reduced to low risk, through research at the NRA level, the more likely the regional meetings are to be successful.	Discuss with WG	Economic
<u> </u>	CQ 11a	Yes, but the requirements for the contingency plan should be placed for the regional meeting participants as well. 'The participants	Communicate	LCOHOITIC
		must have demonstrated an ability to represent the perspective of the change with which they are most aligned, and ability to be open	expectations for meeting	
		to other perspectives and new ideas, and a willingness to compromise.' These should be required for all participants and not just the	participants.	
		contingency group.		
ł		The issuing/providing of educational materials would be easy to implement but the purpose is unclear. FSC CW certificate holders	N/A - educational	
С	CQ 11a	should be required to attend or be aware of the CW Regional Meeting reports.	materials CM removed	Economic
		No, I am not supportive. The concept is overly vague and unaccountablecontingent on meetings that haven't yet taken place.		
		Specifically CM3a: I am concerned at the potential cost and administrative burden of creating our own educational materials if FSC fails		
		to do so. FSC runs a significant risk of pricing companies like ourselves out of the FSC Controlled Wood program. How do we		
		communicate the reason for the specified risk to a supplier such that it will influence their behavior? As a secondary manufacturer we		
		have very little influence over the procurement activities of our suppliers. CM3c: Overly vague and reliant on outcomes of the regional		
_		meetings. I have no idea what is meant by the statement "organization's required action will be scaled to its potential impact on HCVs"		
<u>C</u>	CQ 11a	What scale, How?	Discuss with WG	Economic
		I am opposed to a mandatory statement about sourcing from any FSC risk designation. Portions of the supply chain are not able to be		
С	CQ 11a	known to the FMU, therefore any statements that indicate otherwise are not acceptable.	Discuss with WG	Economic
		Enviva specific comment		
		Not with the current version of the NRA.	Define an efficient sink	
_	60 11-	· · · · · · · · · · · · · · · · · · ·	Refine specified risk	F:-
L	CQ 11a	of the CBA's, address various errors in fact and incorrect interpretation of certain definitions.	where possible	Economic
Х	CQ 11a	See Response to Question 2 regarding antitrust issues.		Economic
		The general CMs make sense, but the details of implementation are not well-defined. Is it a requirement to use the FSC-developed		
۸	CO 11a	educational materials? When will these be developed? When and how can CHs review and comment on the materials?	n/a	Economic
	ICC 110	reductional materials: which will these be developed: which and now can clis review and comment on the materials:	11/ u	LCOHOITIC

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CQ 11a	Providing that there is good moderation and that we are able to get a mix of stakeholders and non-members present this approach makes sense. Given the turnout at initial gatherings on this standard there is concern that certain unengaged stakeholders may not	n/a	Economic
CQ 11a	зирротнуе, уез, ош alsappointed and mustrated, on several topics:	iiy a	LCOHOITIC
	• "educational materials" – it is disingenuous to ask Certificate Holders (CH) to agree to distribute promotional materials that have not		
	yet been produced. Will CH's be accorded the opportunity to review & comment on drafts? Will CH's be allowed to edit or amend the		
	material? Even assuming good faith on all sides, there may be sincere disagreements about content, style, and messaging. Will		
	materials actively promote FSC, or simply address the specific topics associated with HCV/conversion risk?		
	• "educational materials" – the SFI program has required outreach to suppliers and landowners on similar and related topics since its		
	inception. Distribution systems and program support are fully established, funded, and stable. This initiative looks suspiciously like "re-		
	inventing the wheel".		
	• "clear statements" – untold 10's of thousands of "statements", declaring an agreement to respect and avoid the 5 FSC CW categories,		
	have been circulated, co-signed, filed, and audited for over 15 years – with no discernable effect on sustainability. Is it not time to try		
	something new?		
	• Regional Meetings – the simple requirement to engage (attend or follow) in a program of regional CW dialogs is likely to be healthy		
	for the program over time. The proposed format, however, appears to be excessively aspirational, and raises some vexing questions (see		
	below).		
	• Regional Meetings – stated objectives are extremely broad and potentially contradictory (list below). Success of some objectives		
	appears essential for program implementation.		
	Others are merely desirable.		
	o information sharing		
	o relationship building		
	o interactive dialog		
	o work together to identify effective and practical mitigation actions		
	o notasked to agree or decide on one specific mitigation action		
	o working toward a set of multiple potential actions	Discuss CM concerns with	
	o provide information and feedback	WG; contract with a	
	o assess the effectiveness of control measure implementation	professional facilitator	
CQ 11a		for meetings	Economic
	We support the concept of the proposed Category 3 control measures. It appears that the idea is to keep it simple for both the	Provide alternative	_
	certificate holder and certification body. There is concern that the frequency of planned meetings is not given and timing of such may	engagement for	
	make it difficult for a certificate holder to attend/review meeting notes within the timeline given for a NCR. What if no one attends?	individuals and	
	Additionally, meetings might not include diverse stakeholders that are most negatively impacted by the decisions. Suggest recorded	organizations that cannot	
CQ 11a	webinars or alternatives in addition to regional meetings.	attend the meetings	Economic

		we are generally supportive or using regional FSC meetings to develop conservation measures tallored to specific forest species or other		
		conservation needs in a given region, but emphasize the importance of appropriate representation from all three chambers at these		
		meetings – particularly representatives in the environmental community who have specific expertise in at-risk HCVs.		
		However, to be effective, these meetings should be more carefully defined. For example, the draft NRA does not appear to require that		
		the mitigation measures developed at these meetings be based on the best available science. Instead, the NRA relies solely on an		
		expectation that the meetings be multi-stakeholder, despite the likelihood of uneven participation from environmental, social, and		
		economic interests. Multi-stakeholder participation is important, but is not by itself a sufficient defining characteristic.		
		Moreover, the NRA and its Control Measures should not rely so heavily on regional meetings that might not actually come to pass, or		
		that might not be successful in producing effective and practical mitigation measures/Control Measures. In other words, the regional		
		meetings and their outputs need to support and complement rather than replace a more performance oriented system of Control		
		Measures, including as noted below.		
		The Control Measures for HCV forest risks rely narrowly on supplier education and thus the assumed good will of forest managers.		
		Supplier education is a constructive and important tool, as far as it goes, but it is highly unlikely to be sufficient by itself.		
		The draft NRA also exacerbates the likely ineffectiveness of supplier education by providing an explicit loophole, whereby suppliers can		
		feign ignorance about the presence of HCVs in their forests or forests they are sourcing from. At CM 3.a (page 119), the draft NRA		
		states that suppliers need only mitigate threats to HCVs "when these areas are known by a supplier." This phrase should be deleted		
		from the Control Measure, and replaced with an expectation that suppliers will determine whether the HCVs are present in their forests or the forests they are sourcing from.		
		In addition to conveying expectations to suppliers about avoiding conversion and harm to HCVs, it is also crucial that purchasers (i.e., CW		
	CO 112	certificate holders) be responsible for ensuring there is some basic level of performance outcome, either in terms of adoption of	Disgues with MC	Farironm ontol
	CQ 11a	<del>                                     </del>	Discuss with WG	Environmental
		implementation has been 100% on certified companies. It has created inconsistency between mill assessments and a combative		
		relationship between environmental members who want more protections and mills who have to take on the "cost" of additional		
		requirements.		
		The new approach has the promise of:		
		1: Bring the environmental chamber on as partners in solving the forest management issues confronted by CW, build relationships		
		between stakeholders, and share the cost of CW between chambers via creation of the mitigation steps and monitoring.		
		2: Find solutions that deal with forest management caused issues vs simply having a tool to avoid wood, which by my measure has had		
		very little impact on forest management if any in North America.  We must be intentional how we start the mitigation steps conversation. Do we create a straw-dog, create example shared with others		
٨	CQ 11a	in advance of the meetings, or intentionally leave the slate clean for free thought during the beginning of the meetings.	n/a	Social
^	CQ 11a	In advance of the meetings, of intentionally leave the state clean for free thought during the beginning of the meetings.	ιιγ α	Juliai

This walldity and success of this approach to developing/implementing Control Measures will depend nearly on the mis of participants in the Region in develope. We believe there must be a high percentage of certificate holders present who operate within the FSC Region in question - those who will actually be required to implement the control measures that are proposed. It is not enough to have "stakeholders" present—there must be significant certificate holder great participation. Meetings must be planned and publicized well in advance if participation in and/or knowledge of meeting outcomes is going to become a part of CW audit requirements. Set should consider implementing some type of acknowledgement system to ensure that certificate holders have received adequate advance notice of their applicable regional meeting.  According to the 2/20/18 CW MRA Public Concultation Webinar, the proposed timetable for the first round of CW Regional Meetings at which Control Measures will be discussed is "Larly May" of 2018. As we are now entering March, these meeting dots, locations, accommodations, etcl should already be established and alreits sent out to retificate holders. Companies will have a difficult the arranging attendance on hier notice.  Gaining group consensus on approved list of mitigation actions may be difficult depending on mix of meeting participants and number of mitigation actions proposed.  A stated above, there is a great deal of uncertainty that has been added to the control measures by requiring ISC certificate holders at meeting.  A stated above, there is a great deal of uncertainty that has been added to the control measures by requiring ISC certificate holders and tender global meeting with the Controlled Wood Standard.  Neither in the full body of the NRA or the regional meeting guidance document has there been any level of detail on the governance of the meetings themselves. It is WebSitol.  • Neither is the full body of the NRA or the regional meeting guidance document has there been any level		,			•
Region in question — those who will actually be required to implement the control measures that are proposed. It is not enough to have "stakeholders" present — there must be significant certificate holders pratricipative will in advance if participation in and/or knowledge of meeting outcomes is going to become a part of CW audit requirements. FSC should consider implementing some type of acknowledgement system to ensure that certificate holders have received adequate advance notice of their applicable regional meeting.  According to the 27/20/18 CW NRA Public Consultation Webinar, the proposed imetable for the first round of CW Regional Meetings at which Control Measures will be discussed is "Early May" of 2018. As we are now entering March, these meeting dates, locations, accommodations, etc should already be established and alerts sent out to certificate holders. Companies will have a difficult time arranging attendance on short notice.  Gaining group consensus on approved list of mitigation actions may be difficult depending on mix of meeting participants and number of mitigation actions proposed.  As stated above, there is a great deal of uncertainty that has been added to the control measures by requiring FSC certificate holders to attend regional meetings that will "identify a focused set of actions to reduce risk of sourcing materials" from specified lands, the identification and implementation of these actions may continue to raise antitivat concerns and adds another resource burden to companies attempting to comply with the Controlle Wood Standard.  Neither in the full body of the NRA or the regional meeting sentitive to raise antitivat concerns and adds another resource burden to companies attempting to comply with the Controlle Wood Standard.  Neither in the full body of the NRA or the regional meeting sind machines will be posted on the FSC US website.  **Attendaces attempting to comply with the Controlle Wood Standard.  **Attendaces must register of each meeting as well provided in actions will					
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Logitus poinerwise, they cannot operate within the ob.		CO 112		Discuss with MG	Economic
		CQ 11a	potierwise, they cannot operate within the Os.	DISCUSS WITH WG	LCOHOITIC

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		We are supportive of FSC using regional meetings to develop conservation measures specific to different forested areas but emphasize		
		the importance of representation from all three chambers at these meetings. We appreciate the move toward a collaborative dialogue		
		approach where all stakeholders understand how the mitigation options were identified and what data was used to develop them. This	Conduct outreach to try	
		proposed approach should shift the system to a more pro-active approach to addressing threats, rather than simple avoidance. We also	and achieve a diversity of	
		see the potential in this more collaborative approach to effect threats region-wide, rather than individual actions taken in isolation of	CH and stakeholders at	
С	CQ 11a	the broader FSC stakeholder community.	meetings	Environmental
		CM 3.a: Supportive		
		CM 3.b: Supportive, depending on the advance notice, timing, quality, and usefulness of the meetings and information made available.		
		The meetings should focus on an adaptive management approach, wherein any mitigation measure with at least some chance of being		
		effective is included initially, pending results of effectiveness monitoring over time. The meetings will attract people who want to		
		develop useful information and practical options only if potential meeting participants understand the goal is to advance conservation		
		efforts and advance the practice of forestry, not to designate "no harvest" areas.		
		CM 3.c: Supportive. Advance work is critical, including attracting collegial participants, providing useful advance materials, and having		
		some good, partially-formed mitigation options drafted well in advance so that economic chamber members can pre-assess them.		
		Again, any mitigation option with at least some chance of being effective should be included initially so that a range of options is		
		available for possible implementation.	Begin engagement on	
		Separate pre-meetings or breakout sessions should be held for species-specific HCVs with limited ranges (Dusky Gopher Frog, Houston	mitigation options prior	
A, C	CQ 11a	Toad, Patch-nosed Salamander)	to the meetings	Economic
71, 0	CQ 110	1 out, raten nosed salamander,	to the meetings	Leonomie
Α	CQ 11a	They seem reasonable, but effectiveness will depend on the outcome CW Regional Meetings.	n/a	Economic
		Generally, yes. However, we must note that we are asked to comment on something that is very much an unknown at this point. It will		
		very much depend on how the regional meetings go, whether there can be productive discussion and consensus, and whether the		
Δ	CQ 11a	resulting mitigation measures are reasonable and able to be practically implemented.	n/a	Economic
	00, 220	Toolston, grant garden medical are reasonable and able to be practically impremented.	,	
		We are supportive of the collaborative model that targets the category of risk with intent of alleviating the threats/negative impacts in	Begin engagement on	
		addition to avoiding controversial material as has been the historical approach for CW. The credibility of this approach depends on the	mitigation options prior	
		success of the meetings; meetings will therefore need to have adequate participation of relevant experts across chambers/interest	to the meetings; strive	
		groups. Actions by stakeholders should be performance-based with stakeholders aiming for the same ultimate goal. We welcome the	for practical and effective	
۸ ٫	CQ 11a	contingency plan for added credibility.		Environmental
A, C			mitigation options	
C	CQ 11b	I don't think a handful of individuals should be responsible for such a significant decision.	Discuss with WG	Economic
		It is important that FSC clarify that the contingency plan of having a small group of stakeholders work on mitigation measures is to be		
		considered feedback and that FSC is the final decision maker. While FSC is correct in stating that it is unlikely there will be 100%		
		alignment on all mitigation measures, a better contingency plan is to take adequate time to thoroughly consider and meaningfully		
		respond to the feedback provided during this comment period. The approach of rushing the process through rather than taking time to		
С	CQ 11b	get it right calls the credibility of the entire process into question.	Discuss with WG & Board	Economic
Α	CQ 11b	Contingency plan looks good – fingers crossed it doesn't come to that.	n/a	Economic
А	CQ 11b	The contingency plan is fine as outlined with the note above of developing options prior to the regional meetings.	n/a	Economic
		The meetings may achieve good results and some degree of consensus, but they are very, very unlikely to complete the work. The		
		contingency plan should consider the range of possibilities, from meetings with considerable useful output (but still incomplete) to	Be prepared for a range	
		meetings that accomplish little.	of outcomes in	
		Breakout sessions for different specified risk issues are important. For example these three issues should probably have 3 different	implementation of the	
c	CQ 11b	sessions: Longleaf pine, Bottomland Hardwoods, Cove Hardwoods.	contingency plan	Economic

С	CQ 11b	The contingency plan appears only in the accompanying Regional Meeting document and not referred to at all in the NRA. Given the practical difficulty of achieving consensus on realistic mitigation actions at the Regional Meetings, it appears likely that final decisions will be determined through such an approach. Therefore, details of this mechanism should be included in the NRA. It will be essential to ensure the contingency working group represents the wide array of companies who will ultimately face the challenge of implementing the actions once they are identified. This group should NOT rely primarily on technical staff from large paper companies and national NGO's. These folks are unlikely to have the practical appreciation of implementation challenges and ongoing work that should be given first consideration.  Other potential issues may arise from the selection of a small group that can result in competitive issues amongst economic participants of the stakeholder group. For instance, if the contingency group may not have participation from a company (or companies) whose wood basket includes part or all of the "Cape Fear Arch CBA" those unique perspectives will not be reflected within the "small group."	Include the contingency plan steps with the CM	Economic
А	CQ 11b	Yes we support it.	n/a	Economic
А, С	CQ 11b	Yes, although I would like clarification on the time frame for the original meeting participant to identify mitigation actions. I assume "within the timeframe of the scheduled meeting" refers to an obligation to report a plan, which they had a reasonable amount of time to create, during the time of the meeting. However, I am unclear as to how long the original actor has to develop this plan? Does this vary based on certain situations or is it a set limit, such as a month?		Environmental
С	CQ 11b	The small meetings must have a balanced and representative membership for the region in question. Mitigation measures developed at the contingency meetings should be open for comment before incorporated in the normative documents.	Discuss with WG	Economic
		The contingency plan is fine, though we're of the opinion that it's not a contingency at all, but rather the likely outcome of the regional		
A	CQ 11b	meetings. However, we are prepared to be pleasantly surprised.	n/a	Economic
Α	CQ 11b	The contingency plan is fine, though we're of the opinion that it's not a contingency at all, but rather the likely outcome of the regional meetings. However, we are prepared to be pleasantly surprised.	n/a	Economic
Α	CQ 11b	Yes, I support the contingency plan.	n/a	Economic
С	CQ 11b	No. I can't comment on an unknown eventuality. I feel that if I wasn't selected to participate in the smaller group I would be shut out of the decision-making process. FSC staff should develop mitigation actions based on discussion held at the regional meetings.	Discuss with WG	Economic
С	CQ 11b	Limited support. This method allows for a group to be obstructionist and potentially force a CM when none is needed in the interest of "we have to do something". When looked at through a global lens, the US operates at a very high level. We need not ratchet the bar up arbitrarily. Any CM needs to be outcome based and rooted in firm science that it will be impactful.	Agree	Economic

С	CQ 11b	Enviva specific comment  Possibly. It will depend on the makeup of the small group but there are a few uncertain terms in the description of the process. Words such as "preferably" do not drive confidence. Who determines if a participant "demonstrates an ability to represent a perspective"?  "Ability to be open to other perspectives, ideas and willing to comprise"? Members of their chamber? The meeting moderator? Both?  Will FSC US solicit participants form the same group? Others in the respective chambers?	Discuss with WG	Economic
		G G		
С	CQ 11b	The proposed contingency plan could result in additional antitrust issues by having a "small group" develop mitigation actions for all certificate holders participating in a given wood supply area designated as "specified risk."	Discuss with WG	Economic
A	CQ 11b	Yes, it's wise to have this plan in place as it may be needed.	n/a	Economic
С	CQ 11b	The contingency plan seems well-intentioned, but again leaves too many unknowns at this point for me to be certain of its potential effectiveness. In essence, the plan suggests that if no mitigation actions can be agreed upon at a Regional Meeting, then a smaller group will convene to determine a path forward. What's to say that participation at the Regional Meeting would even offer the opportunity for selecting a smaller group? Would selecting a smaller group have the effect of cutting some stakeholders out of the decision-making process? If so, this would seem to have the potential to reflect negatively on the standard altogether. The most workable plan proposed here is to have FSC US staff develop actions based on discussions at the Regional Meetings. Either way however, it seems that the contingency plan is dependent upon the type and quality of participation at the Regional Meeting.	Discuss with WG	Economic
С	CQ 11b	Selection of a small group may result in competitive issues among economic participants of the stakeholder group. For instance, if the contingency group did not have participation from a company (or companies) whose wood basket includes part or all of the "Cape Fear Arch CBA" those unique perspectives may not be reflected within the "small group."  The published report should be transparent regarding who has developed the mitigation actions.	Discuss with WG	Economic
С	CQ 11b	Selection of a small group may result in competitive issues amongst economic participants of the stakeholder group. For instance, if the contingency group did not have participation from a company (or companies) whose wood basket includes part or all of the "Cape Fear Arch CBA" those unique perspectives may not be reflected within the "small group."  The published report should be transparent in who has developed the mitigation actions.	Discuss with WG	Economic
А	CQ 11b	Yes, we need contingency plans with so much in motion and not clearly understood. More flexibility is better at initial stages of implementation.	n/a	Economic

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		Timelines for when this plan is enacted should be present so that there is an understanding in advance of the meetings that if consensus		
		does not occur by a certain point that the contingency plan will be used. Slight concerns that stakeholders will not engage until the last		
		minute is present. Complaints if this process is used should be noted back to if complaints are coming from stakeholders that were		
С	CQ 11b	present initially.	Discuss with WG	Economic
		Yes. Given the practical difficulty of achieving practical and focused output from the poorly-scoped Regional Meetings, it appears likely		
		that final decisions will need to be delegated to another body.  This mechanism appears only in the accompanying Regional Meeting document, not referred to at all in the NRA. This seems unwise		
		and likely to generate uncertainty about normative requirements.		
		The proposal to form a focused working group (Contingency Plan – 1.a) is preferred. But it will be essential to ensure that this group		
		represents the wide array of companies who will ultimately face the challenge of implementing the actions once they are identified.		
		This group should NOT rely primarily on technical staff from large paper companies and national NGO's. These folks are unlikely to have		
		the practical appreciation of implementation challenges and ongoing work that should be given first consideration.		
		The FSC-US Board of Directors are correctly identified as final decision-makers for all the NRA content. It seems more likely than not		
A, C	CQ 11b	that final decisions on mitigation actions will eventually fall to them again.	Discuss with WG	Economic
			specified risk issues to be	
A C	CO 11h		discussed at the	F
A, C	CQ 11b	the NRA draft. The introduction of new issues at this level need to be prevented.  We support the proposed contingency plan with the caveats expressed above. We have no suggestions for improving the contingency	meetings are those in the	Economic
۸	CQ 11b	plan.	n/a	Environmental
^	CQ 11b	<del>'</del>	iiy a	Livironinental
		The contingency plan is a critical safeguard to avoid unintentional consequences of FSC US and members taking this outside the box risk.	Diam to monitoit NIDA in 10	
A, C	CQ 11b	FSC US may want to build-in a plan for the FSC US policy and standards committee to evaluate the approved mitigation steps 1 or 2 years after approval as a place holder to make changes without having to go out for full revision if something is clearly going wrong.	Plan to revisit NRA in 18- 24 months	Social
А, С	CQ 11b	years after approval as a place holder to make changes without having to go out for full revision it something is clearly going wrong.	24 111011(113	Jocial
		Contingency plan should only be necessary if meetings are poorly attended or are an improper mix of CH/SH attendees, in which case		
С	CQ 11b	FSC should consider a second meeting rather than delegating this important aspect of compliance to a small group.	Discuss with WG	Economic
		If the regional meeting governance proposed above Is put in place there will be no need for a contingency plan.		
C	CQ 11b	In the event no risk mitigation actions are approved at the regional meetings individual certificate holders will have to develop their own CB approved measures.		Economic
C	CQ 110	No. The contingency plan is not reasonable. FSC continues to pursue a consensus approach on the Risk Assessments and associated	Discuss with WG	ECOHOMIC
		Control Measures. To date, this has not been achieved (example, the CW Strategy is still unfinished after how many years of work?),		
		and it should be obvious by now that it won't work going forward. FSC will have to make some decisions on direction and stand by		
		them, one way or another. Continuously deferring decision making to unknown groups won't work. Cert Holders can adjust to changes,		
		but the recent rate of change and the continuous changes are wearing many Cert Holders down to the point of exiting FSC. Cert Holders		
С	CQ 11b	need stability and continuity for a few years at least.	Discuss with WG	Economic

Α	CQ 11b	Yes, we support the contingency plan and do not have any suggestions to improve it.	n/a	Environmental
С	CQ 11b	The meetings may achieve good results and some degree of consensus, but will unlikely complete the work. The contingency plan should consider the range of possibilities, from meetings with considerable useful output (but still incomplete) to meetings that accomplish little.  Breakout sessions for different specified risk issues are important. For example these three issues should probably have 3 different sessions: Longleaf pine, Bottomland Hardwoods, Cove Hardwoods.	Be prepared for a range of outcomes in implementation of the contingency plan	Economic
С	CQ 11b	Concern is that selection of "a small group of certificate holders" will exclude participants that are genuinely interested in an active role in the development of mitigation measures. Suggestion is that FSC be sensitive to this, even if it means holding another open forum that builds on the learnings from session 1. A calculated approach to addressing the key disagreements, or areas of indecision, identified in the first session may be more valuable than simply limiting the voting members. Consider asking stakeholders to submit suggestions, concerns, and references supporting their views in writing as a pre-requisite for joining the second meeting. This may be helpful for steering the next conversation and limit the group to those who have serious interest in the matter.  Suggest all custodians and/or leaders of the meetings receive training provided by the Natural Resources Leadership Development Institute to properly guide the dialogue.	Discuss with WG & Board	Economic
Α	CQ 11b	Generally, yes. Again, it is difficult to comment without having the experience of having this actually played out. It is something that could work very well, or very poorly.	n/a	Economic
A	CQ 11b	Yes.	n/a	Environmental
		We believe that regional research scientists that are experts in forestry should be consulted on all aspects related to this NRA. Research	Work to identify these	
		scientists are a neutral party that have a reputation at stake when consulting on these matters and can make sure the existing science is	kinds of participants, and	
I	CQ 11c	considered in all deliberations.	engage in the regional	Economic
			Work to identify these	
l	CQ 11c	Certificate holders, major TIMOs and REITs, scientific experts.	kinds of participants, and	Economic
		Any mills that are sourcing and providing controlled wood or wood to be controlled – specifically their log buyers. I will most definitely	kinds of participants, and	
		invite the log buyers from the two mills in Oregon that we source controlled material from. Scientists working on identified species with		
I	CQ 11c	specified risk or the regions identified as specified risk, etc.	meeting process.	Economic
I	CQ 11c	Research scientists at the Federal and State level with expertise in the identified geographic and topical areas of specified risk.  NGOs should be encouraged from the Social and Environmental Chambers. They should be offered travel expenses as required to encourage participation.	Work to identify these kinds of participants, and engage in the regional meeting process.	Economic
	60.44	The ENGOs that have knowledge of working forestry and FSC certification, notably The Conservation Fund, The Nature Conservancy, and The Longleaf Alliance. Forestry Association representatives. Biologists with understanding of habitat needs and sensitivity to forest management for each of the species-specific HCVs (Dusky Gopher Frog, Houston Toad, Patch-nosed Salamander, Longleaf Pine). For cove hardwoods, ecologists/biologists/foresters with understanding of status of cove hardwoods on public lands across the breadth of the area mapped as specified risk for cove hardwoods.	Work to identify these kinds of participants, and engage in the regional	
<u> </u>	CQ 11c	For Bottomland Hardwoods ecologists/biologists/foresters who understand the dynamics of these systems.	meeting process.	Economic

	ı		T	1
		Controlled Wood stakeholders, state Forestry Associations, American Tree Farm System state committees, State Foresters, Forest		
		Landowner Associations, Forestry Consultants, Logging Professionals/Associations, and private landowners will all be impacted by		
		decisions from these meetings.		
		Recruiting significant representation from the small and medium-sized companies who will be implementing the NRA and Control	Work to identify these	
		Measures is essential for the success of this program. This will be challenging to recruit their input and participation due to their lack of	kinds of participants, and	
		resources and added complexity of these topics. However, consensus from this group of practitioners may be the single best way to be	engage in the regional	
l l	CQ 11c	successful.	meeting process.	Economic
		Include more research scientists. A strong effort should be made to recruit and include, a significant amount of time prior to the	Work to identify these	
		meetings, local and regional university academics or other professional researchers (state DNRs, USFS, etc.) to provide insight into the	kinds of participants, and	
		actual science of any given situation. The regional meetings will be more successful if science can be brought back to the forefront of	engage in the regional	
1	CQ 11c	the conversation and drive the decision-making process.	meeting process.	Economic
			kinds of participants, and	
1	CQ 11c	Ensure normal FSC member and public notifications	engage in the regional	Environmental
			kinds of participants, and	
		Non-certified small landowners should have a voice, as they will be most impacted by the CW mitigation measures. Organizations such	engage in the regional	
lı l	CQ 11c	as Dovetail Partners, NCASI, AFRC (West Coast regions).	meeting process.	Economic
·		Research scientists. Strong effort should be made to recruit and include, a significant amount of time prior to the meetings, local and		
		regional university academics or other professional researchers (DNR, USFS, etc.) to provide insight into the actual science (or lack of, if		
			Work to identify these	
		, , , ,	kinds of participants, and	
		fact the case, then the regional meetings will not be successful unless science is brought back to the forefront of the conversation, and	engage in the regional	
	CQ 11c	drives the decision making process.	meeting process.	Economic
<del>'</del>	CQ IIC	drives the decision making process.	ineeting process.	LCOHOITIC
		Pacific Coast Region:	Engage these	
		Olympic Forest Coalition (http://olympicforest.org/contact-us/)	participants in the	
		Washington Environmental Council (https://wecprotects.org/programs/evergreen-forests/)	regional meeting	
lı l	CQ 11c	American Forest Resource Council (http://amforest.org/about/)	process.	Economic
'	CQ 11C		process.	Leonomie
		Research scientists. Strong effort should be made to recruit and include, a significant amount of time prior to the meetings, local and		
		regional university academics or other professional researchers (DNR, USFS, etc.) to provide insight into the actual science (or lack of, if	Mork to idoutify the sec	
		, , , ,	Work to identify these	
			kinds of participants, and	
		fact the case, then the regional meetings will not be successful unless science is brought back to the forefront of the conversation, and	engage in the regional	F
I	CQ 11c	drives the decision making process.	meeting process.	Economic
		Forestry associations should be contacted in the specific regions. These organizations should include the local forest industry and	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		landowner associations. All states for a region should be contact but FSC should explicitly reach out to landowners in the state the	Work to identify these	
		meetings will be held for the greatest chance local landowners/industry might attend. Getting not FSC affiliated stakeholders will be	kinds of participants, and	
	60.44	key as the CW is relevant to them as well. Control measures could limit harvesting on specific private landownership and having these	engage in the regional	F
	CQ 11c	potential landowners involved is critical.	meeting process.	Economic
		Participation by large forest products industry groups such as the WWPA as their constituent companies may benefit by understanding	kinds of participants, and	
ı	CQ 11c	the concept of CW and selling it to secondary manufacturers like ourselves	engage in the regional	Economic
		Non-certified landowners. It will be difficult for the process to have regittinacy if they are not involved. The stand to be the most	Work to racitiny these	
		impacted by the decisions of FSC and they do not currently have a seat at the table. We cannot assume that a current FSC member is a	kinds of participants, and	
.	00.11	suitable proxy for small private landowners that legally harvest their timber outside of any stewardship program. They need a seat at	engage in the regional	<u>.</u> .
I	CQ 11c	the table as do the TIMOs, REIT, state agencies, etc.	meeting process.	Economic

			Linds of south in the south	
		Enviva specific comment	kinds of participants, and	
1.		State Forestry Commissions, State Forestry Associations, NCASI, National Association of State Foresters, Southern Group of State	engage in the regional	
<u> </u>	CQ 11c	Foresters, The Nature Conservancy	meeting process.	Economic
		Stakeholders would include Controlled Wood certificate holders, landowners, members of SFI and American Tree Farm state	Work to identify these	
		committees and state foresters. Whether or not these groups have available resources to participate in the process puts them at a	kinds of participants, and	
I	CQ 11c	disadvantage.	engage in the regional	Economic
			Work to identify these	
		Yes, forest landowners, Certificate Holders (both current and former), professionals within the forestry industry (e.g. foresters, wood	kinds of participants, and	
		dealers, consultants), forest product facilities that are not certificate holders (considered secondary and tertiary suppliers) that are	engage in the regional	
1	CQ 11c	directly affected by these policies and designations.	meeting process.	Economic
		Given the specified risk associated with old growth on public lands in the west, I would like to see public land managers be specifically		
		invited/encouraged to attend the Regional Meeting.		
		Non-certificate-holder wood products manufacturers would also be good parties to bring to the table; while they might prove to be the		
		least inclined to join in the process, these organizations may reap direct benefits of CW by selling to secondary manufacturers who are		
		enrolled in the program		
		One issue with bringing new parties in to the discussion is adequately filling them in on the background and context. Having only started		
		dealing with Controlled Wood just over a year ago myself, I can say that there is a seemingly endless amount of information to consume	·	
			kinds of participants, and	
		forest certification. Perhaps a stakeholder outreach program could be put together (if there is not one already), or points of contact	engage in the regional	
I	CQ 11c	could be offered to new attendees to help fill them in prior to a meeting.	meeting process.	Economic
		Controlled Wood and also like the control of the state Control of the Control of	Work to identify these	
		Controlled Wood stakeholders, members of the state Sustainable Forest Initiative committees, members of the American Tree Farm	kinds of participants, and	
ı	CQ 11c	System state committees, State foresters, and landowners are likely to be affected by decisions from these meetings.	engage in the regional	Economic
		Controlled Wood stakeholders, purchasers of timber from State or Federal land management agencies, members of the state	kinds of participants, and	
		Sustainable Forest Initiative committees, members of the American Tree Farm System state committees, State foresters, and	engage in the regional	
lı .	CQ 11c	landowners are likely to be impacted by decisions from these meetings.	meeting process.	Economic
	50, 110	Yes, some of our major round wood suppliers. Major TIMOs, landowners, representation from AF&PA (who can help to report out	Work to identify these	200
		proceedings to Economic Chamber, paper segment in particular.) USFS Wisconsin, Yale School of Forestry, Oregon State, NC State,	kinds of participants, and	
lı .	CQ 11c	others in academia (Purdue.)	engage in the regional	Economic
	1			
		A concentration on meeting agenda, facilitation and outcomes needs to take place to keep people that do come to regional meetings	Begin preparations well	
С	CQ 11c	engaged and move unengaged participants into the engaged class.	in advance	Economic
	-		Linds of southing these	
		Yes. Recruiting significant representation from the small and medium-sized companies who will be implementing the NRA and CM's is	kinds of participants, and	
1.		essential for the success of this program. This will be challenging to achieve and maintain, but consensus from this group of	engage in the regional	
1	CQ 11c	practitioners may be the single best way to be successful.	meeting process.	Economic
		Members of working groups from professional membership bodies such as the Society of American Foresters (Certification and	kinds of participants, and	
lı .	CQ 11c	compliance working group in particular).	engage in the regional	Economic
v	CQ 11c	We are willing to make suggestions at a later date for specific regional mostings		Environmental
^	CQ 11C	We are willing to make suggestions at a later date for specific regional meetings.	Work to identify these	LIMITOTITIETILAI
		Scientists, USFS, and folks familiar with environmental protections currently in place. They can anchor the conversation as a neutral	kinds of participants, and	
		none economic none environmental member. They can help flag what science exists and what is missing in relation to the decisions we	engage in the regional	
l <sub>1</sub>	CQ 11c	are making and what we might do for mitigation steps to help resolve the issue over time.	meeting process.	Social
<u>'</u>	50, 110	and making and make the might do for mingulation steps to help resolve the issue over time.	Work to identify these	2 20141
l <sub>i</sub>	CQ 11c	Certificate holders based/operating within each region.	kinds of participants, and	Economic
<u>''</u>	100 110	perturbate moders suscept operating within each region.	mas or participants, and	LCOHOTTIC

		Controlled Wood stakeholders, members of the state Sustainable Forest Initiative committees, State forestry and landowner	Work to identify these	
		associations, members of the American Tree Farm System state committees, State foresters, and landowners are likely to be impacted	kinds of participants, and	
l	CQ 11c	by decisions from these meetings.	engage in the regional	Economic
Х	CQ 11c	We will provide a specific list of regional stakeholders for the West prior to the meeting.		Environmental
		The ENGOs that have knowledge of working forestry and FSC certification, i.e., The Conservation Fund, The Nature Conservancy, and The Longleaf Alliance. Forestry Association representatives. Biologists with understanding of habitat needs and sensitivity to forest management for each of the species-specific HCVs (Dusky Gopher Frog, Houston Toad, Patch-nosed Salamander, Longleaf Pine). For cove hardwoods, ecologists/biologists/foresters with understanding of status of cove hardwoods on public lands across the breadth	Work to identify these kinds of participants, and	
		of the area mapped as specified risk for cove hardwoods.	engage in the regional	
I	CQ 11c	For Bottomland Hardwoods ecologists/biologists/foresters who understand the dynamics of these systems.	meeting process.	Economic
		The assessment of the current knowledge and threats related to the Late Successional Bottomland Hardwood Priority Forest Type could be improved. In addition to a more comprehensive review on available research, regional forums would greatly benefit from an expert in the field. It may be worth contacting Dr. Bob Kellison (Director, Hardwood Research Cooperative, NC State University (retired) and Mike Aust, Forestry professor at Virginia. Both have an in-depth knowledge of these systems and have agreed to assist with the FSC NRA process. They would be very valuable resources for developing mitigation measures.  Dr. Bob Kellison - bobkellison6@gmail.com  Dr. Mike Aust - waust@vt.edu  FSC Participants should be encouraged to invite a couple suppliers, landowners and other designated stakeholders to attend each		
I	CQ 11c	regional meeting to gain a deeper perspective and representation to develop well thought out mitigation measures.	Contact these individuals	Economic
		Obviously, all CW certificate holders, which is mainly made up of wood products manufacturers that source virgin wood directly.  Additionally, from economic stakeholders, there should be representation from forestland owners, such as American Forest Foundation (AFF), state forestry associations, state forestry agencies, and the Nation Organization for Forestland Owners (NAFO), along with NAFO	Work to identify these kinds of participants, and engage in the regional	
I	CQ 11c	member organizations.	meeting process.	Economic
		Not at this time. We will consult fellow FSC members and other stakeholders to make suggestions as the meetings are planned. A successful meeting will have stakeholders relevant to both the FSC system and to the nature of the risk being addressed. This may	Work to identify these kinds of participants, and engage in the regional	
1	CQ 11c	include local government, local NGOs, landowners, certificate holders, NatureServe representatives, USFS, among others.	meeting process.	Environmental

		twe are very concerned with the current proxy identified by FSC for conversion (population growth). Using population trend data that has		
		no direct correlation to forest cover loss is not a valid measure. FIA and NRI data are widely accepted and scientifically valid estimators		
		of forest cover loss in the US. To not rely on these data simply because they have standard error ranges that fall outside of FSC's upper		
		limit for conversion is arbitrary and unjustifiable from a statistical and scientific standpoint. In addition, under control measures, an		
		arbitrary acreage figure of 100 acres was chosen as the de minimis standard. There is no scientific basis with this number either.		
		We believe a better process is that which was used in the risk assessment process under the previous controlled wood standard, which	Discuss with WG; note	
		realistically treated very small levels of conversion that ultimately do not harm the overall ecoregion habitats at any large scale level.	that the threshold is	
		This will serve as a better proxy	0.02% or 5000 hectares,	
		The process of determining risk in the category of conversion is via analysis of data assessing forest cover over time. Once an	whichever is smaller;	
		appropriate geographic scope for an "area" has been chosen by the user, the area is investigated for natural forest cover trends at the	Also note that the	
		ecoregional level. Data are available at the national level for nearly every country and at the sub-national level for many.	procedures states, "The	
		Issues may arise in terms of both spatial and temporal variation in interpretation. For example, one may argue that the United Kingdom	default scale should be	
		has a negative trend in natural forest cover since the 1800s, but, since 1990 there may be no negative trend in forest cover.	the ecoregion level, or at	
		Identifying a state or a county as having rates of conversion above 0.5% per year does not necessarily define a region as high risk. The	the broadest scale at	
		Controlled Wood risk criteria identify an area as high risk if the rate of loss of forests exceeded this rate in the ecoregion.	which administrative	
		There are in the neighborhood of 30-70 terrestrial ecoregions in the continental U.S.—the number varies depending on the source and	control of land-use	
		definition used for ecoregion. The scale, source, and definition of ecoregion are not specified explicitly in the standard, so users are	planning is undertaken -	
		allowed to choose the delineation. Among the sources that can be used to assist in identifying ecoregions, the most prominent include	in the US, land-us	
		the U.S. Forest Service (USFS), WWF, and the Nature Conservancy (TNC).	planning is rarely	
		USFS ecoregions can be used to assess risk for conversion due to the availability of data on forest cover change over time. The standard	undertaken at a scale as	
		defines ecoregion as:	broad as an ecoregion, it	
		"A large area of land or water that contains a geographically distinct assemblage of natural communities that	is almost always	
		1. Share a large majority of their species and ecological dynamics;	undertaken at a local	
		2. Share similar environmental conditions, and;	scale. Investigate	
		3. Interact ecologically in ways that are critical for their long-term persistence."	alternative proxies for	
R	CQ 12	USFS ecosystem districts or provinces meet the elements of this definition. A risk assessment at the district level would be valid to	urban conversion	Economic
		This one is the toughest. I'm not sure how I feel about the qualitative analysis; for the Pacific Northwest it was based on two non peer		
		reviewed studies which makes me nervous about the conclusions that were drawn. One risk assessment I have reviewed that I think did		
		a fantastic job of assessing conversion risk (completed in 2012) was Weyerheusers controlled wood risk assessment. They dug deep and		
		even commissioned a study on conversion in the Puget Trough to refine the conversion estimates. How about using US census data at a		
		county scale?		
		I also find the FSC assessment level (0.02%) to be exceedingly difficult to assess statistically; nonetheless, if the studies found that		
		conversion rates according to the best country level data sets were not statistically different than 0; that's all you need. Yes, the		
			Consider the data and	
			information sources	
R	CQ 12	company risk assessments and 0.02% for the national risk assessment framework.	suggested.	Economic

	For Category 4, Indicator 4.1, the NRA and supporting documents do not fully contemplate or address the actual drivers of growth and		
	conversion. Or the fact that growth it is not uniform across the region. It is recommended that FSC look further into the specific		
	mechanisms and patterns that drive forest conversion and reconsider the blanket Specified Risk designation. At a minimum specific		
	resources and information available at state levels, including actual growth modeling results related to urbanization, should be used to	Consider the data and	
		information sources	
	The USFS FIA has done extensive research on conversion thoughout the US and have many datasets and publications available. They	suggested to develop	
	· · · · · · · · · · · · · · · · · · ·		
			Economic
		ucsignations.	LCOHOTTIC
		Consider a county scale	
			Faanamia
CQ 12	Caronna, North Caronna, Virginia) are clearly tosing population and gaining forest cover.  It is not clear why population growth has been the chosen metric for risk of forest conversion. There are several types of fand use	assessment	Economic
	<del>,</del> , ,		
	· · · · · · · · · · · · · · · · · · ·	ESC is required to	
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	, ,		
		that must be considered	
	that NRI report includes margins of error for their estimates, and the reported forest losses are well below the margin of error	scale. Note that	
	(Appendix E in the NCASI technical comments), meaning the differences in forest area are not significantly different from zero.	numerous credible	
	From these sources FSC US determined that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded	sources have identified	
	the 0.02% threshold" (p. 237). In fact, though, the analyses of FIA and NRI data are conclusive: there is no statistically significant	urbanization as a driver	
	evidence of forest conversion that would constitute a threat.	of forest conversion and	
	When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null	it is not necessary for FSC	
		US to do additional	
	conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative	analyses.	Economic
<u>c</u>	CQ 12	conversion. Or the fact that growth it is not uniform across the region. It is recommended that FSC look further into the specific mechanisms and patterns that drive forest conversion and reconsider the blanket Specified Risk designation. At a minimum specific resources and information available at state levels, including actual growth modeling results related to urbanization, should be used to inform decisions about appropriate control measures to address Category 4.  The USFS FIA has done extensive research on conversion thoughout the US and have many datasets and publications available. They should be consulted. In addition, satellite photography that is available over many years can be compared and used within regions where it appears there has been conversion to determine if in fact there has been excessive forest loss.  As suggested at the regional meetings and detailed by other commenters (NCASI) the data for urbanization and population growth can be parsed at the county scale.  The draft maps are clearly not in alignment with reality. Many portions of designated significant risk states (Georgia, Louisiana, South Carolina, North Garmalmal. Land can move back and forth in time across various types of land, and based on FIA data U.S. forest area is stable. Using a proxy to determine risk in this case is unnecessary and should be removed. Data directly related to forest land cover exists and should be used to determine risk.  The NRA correctly notes that forest loss through conversion – broadly speaking – is not a significant problem in the US. The decision to focus on the vexing and complex issues of urban sprawl in specific regions is outside the scope of affect by certificate holders. The NRA fails to convincingly link forest loss through conversion to anything that is within the influence of commercial land managers or wood procurement organizati	conversion. Or the fact that growth it is not uniform across the region. It is recommended that FSC look further into the specific mechanisms and patterns that drive forest conversion and reconsider the blanket Specified Risk designation. At an iminimum specific resources and information available at state levels, including actual growth modeling results related to urbanization, should be used to inform decisions about appropriate control measures to address Category 4. The USFS FIA has done extensive research on conversion thoughout the US and have many datasets and publications available. They should be consulted. In addition, satellite photography that is available over many years can be compared and used within regions where table of the pages of the research to determine if in fact there has been excessive forest loss.  As suggested at the regional meetings and detailed by other commenters (NCASI) the data for urbanization and population growth can be parsed at the county scale.  The draft maps are clearly not in alignment with reality. Many portions of designated significant risk states (Georgia, Louisiana, South Carolina, Virginia) are clearly losing population and gaining forest cover.  It is not clear why populatival growthur as usefur rule trusser micrule in the control of the process of the control of the process of the pro

		The NRA admits, "while the urbanization that is occurring within a state may be concentrated in certain parts of the state, the scale of		
		entire states (within FSC US regions) is used for risk determinations, because this is the scale of information that is most consistently		
		available across the assessment area". Land use changes from a forested condition occur for a variety of reason, and conversion to		
		plantations or conversion for the sake of tree harvest alone are not necessarily the predominant reasons. The NRA and supporting		
		documents do not fully contemplate or address the actual drivers of growth and conversion in the SE. Or the fact that growth it is not		
		uniform across the region.		
		Urban growth leading to loss of forested acreage in some areas is listed as primary factor for including the SE as Specified Risk. The		
		NRA (main body of document and Annex G) discussed urbanization as a main factor of forest loss in the SE. However, urbanization		
		doesn't occur in the same manner throughout the SE or even within a single state. It is recommended that FSC look further into the		
		specific mechanisms and patterns that drive forest conversion and reconsider the blanket Specified Risk designation for the SE. This	_	
		most likely holds true across the country as well. At a minimum, specific resources and information available at state levels, including	Move to a finer scale	
		actual growth modeling results related to urbanization, should be used to inform decisions about appropriate control measures to	assessment for	
R	CQ 12	address Category 4. Interpretation of Data Uncertainty	conversion	Economic
			FSC is required to	
1		All the datasets used in the NRA (e.g., GAP, NLCD, NatureServe) have inherent uncertainties. Only two of these datasets (FIA and NRI)	consider conversion that	
1		are based on nationwide statistical sampling designs that enable them to report uncertainty bounds (sampling errors or confidence	occurs, regardless of the	
		intervals) for their estimates (forest area or biomass). It appears that the reporting of uncertainty for these datasets caused FSC US to	driver. Revise Category 4	
1		use undue caution in interpreting results from analyses.	to recognize that the	
1		Analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 236). The NRA	analyses at a regional	
		notes that a recent NRI report (USDA 2015) " has indicated a decline in forest land in the three Pacific Coast states" (p. 238). However,	scale reflect no signficant	
1		that NRI report includes margins of error for their estimates, and the reported forest losses are well below the margin of error	difference from zero, but	
		(Appendix E in the NCASI technical comments), meaning the differences in forest area are not significantly different from zero.	that there is evidence	
		From these sources FSC US determined that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded		
		the 0.02% threshold" (p. 237). In fact,	for assessment at a finer	
		though, the analyses of FIA and NRI data are conclusive: there is no statistically significant evidence of forest conversion that would	scale. Note that while	
		constitute a threat.	the default scale	
		When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null	identified in the NRA	
1		hypothesis here would be "forests are not being lost to conversion", and the alternative hypothesis would be "forests are being lost to	procedure is ecoregion-	
		conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative	scale, it also indicates	
		hypothesis. In the analysis of FIA data, it was demonstrated that measured changes in forest area were not statistically different from	that the scale should be	
		zero, meaning that there is insufficient evidence to reject the null hypothesis of no change.	the broadest scale at	
1		It appears that FSC US seeks a statistically significant demonstration, or proof that forest conversion rates are less than threshold	which administrative	
		values. This is akin to requiring proof of the absence of endangered species or biodiversity elements in a landscape before finding low	contol of land-use	
		risk of sourcing from areas with HCVs. It is a reversal of the burden of proof from seeking evidence of risk to seeking evidence of the	planning is undertaken -	
		absence of risk. As such, this is fundamentally incompatible with other portions of the NRA.	and in the US this is	
		FIA and NRI data has been used in broader assessments of forest area change (Wear and Greis 2002, FAO 2016) that conclude that US	almost always a local	
		forest area is stable, and conversion (when it does occur) is driven by agriculture or development. We suggest that FSC US accept the	scale. Look for and use	
		scientifically-sound interpretation of "no significant difference" for what it is: an indication that there is no evidence of risk of	more recent information	
R	CQ 12	conversion. We recommend that FSC US make a determination of low risk for conversion when there is a lack of statistically significant	sources. Note that	Economic
1	UQ 12	Conversion. We recommend that 130 03 make a determination of low fish for conversion when there is a lack of statistically significant	Jources, Note that	LCOHOLLIC
		We understand that FSC US does not have access to appropriate datasets and analysis of satellite imagery, but FSC as a whole needs to		
		begin providing the information that is needed to track forest loss.		
		Meanwhile it may be useful to consider wildlife eriented proving (see the payt box) as well as land use proving. This gives information	Look for and use these	
		Meanwhile, it may be useful to consider wildlife-oriented proxies (see the next box) as well as land use proxies. This gives information		
_	60.13	on the health of the ecosystem, which can be a more practical measure of whether something has been converted from a functioning	kinds of data and	Facility and the last
К	CQ 12	forest than can say, % tree loss which would not catch conversion to a plantation.	information if available.	Environmental

			Move to a finer scale	
		Conversion should not be identified at a state level. The states with specified risk have many areas that are not at risk for conversion,	assessment for	
R	CQ 12	and it seems unreasonable to implement mitigation in areas where there is clearly no threat.	conversion	Economic
		For Category 4, Indicator 4.1, the NRA and supporting documents do not fully contemplate or address the actual drivers of growth and		
		conversion in the SE. Or the fact that growth it is not uniform across the region. The NRA admits, "while the urbanization that is		
		occurring within a state may be concentrated in certain parts of the state, the scale of entire states (within FSC US regions) is used for		
		risk determinations, because this is the scale of information that is most consistently available across the assessment area". Land use		
		changes from a forested condition occur for a variety of reason, and conversion to plantations or conversion for the sake of tree harvest		
		alone are not necessarily the predominant reasons. Urban growth leading to loss of forested acreage in some areas is listed as primary		
		factor for including the SE as Specified Risk. The NRA (main body of document and Annex G) discussed urbanization as a main factor of		
		forest loss in the SE. However, urbanization doesn't occur in the same manner throughout the SE or even within a single state. Our		
		example State, Georgia, has invested time and money in trying to better understand and model growth patterns and the effect of		
		growth and urbanization on natural resources. As part of statewide water resource planning they contracted for growth modeling work		
		to be done looking at a 50-year planning horizon. SLEUTH models were used as the basis for this analysis. The use of SLEUTH models		
		has become widespread in recent years and they have been applied to many areas of the US precisely to look at growth and		
		urbanization in sensitive or vulnerable environments. Reference to look at: Chaudhuri, Gargi & Clarke, Keith. (2013). The SLEUTH land		
		use change model: A review. International Journal Of Environmental Resource Research. 1. 88. It is recommended that FSC look further		
			Consider information	
		This most likely holds true across the country as well. At a minimum specific resources and information available at state levels,	sources and move to a	
		including actual growth modeling results related to urbanization, should be used to inform decisions about appropriate control measures	finer scale assessment	
R	CQ 12	to address Category 4.	for conversion	Economic
		For Category 4, Indicator 4.1, the NRA and supporting documents do not fully contemplate or address the actual drivers of growth and		
		conversion in the SE. Or the fact that growth it is not uniform across the region. The NRA admits, "while the urbanization that is		
		occurring within a state may be concentrated in certain parts of the state, the scale of entire states (within FSC US regions) is used for		
		risk determinations, because this is the scale of information that is most consistently available across the assessment area". Land use		
		changes from a forested condition occur for a variety of reason, and conversion to plantations or conversion for the sake of tree harvest		
		alone are not necessarily the predominant reasons. Urban growth leading to loss of forested acreage in some areas is listed as primary		
		factor for including the SE as Specified Risk. The NRA (main body of document and Annex G) discussed urbanization as a main factor of		
		forest loss in the SE. However, urbanization doesn't occur in the same manner throughout the SE or even within a single state. Our		
		example State, Georgia, has invested time and money in trying to better understand and model growth patterns and the effect of		
		growth and urbanization on natural resources. As part of statewide water resource planning they contracted for growth modeling work		
		to be done looking at a 50- year planning horizon. SLEUTH models were used as the basis for this analysis. The use of SLEUTH models		
		has become widespread in recent years and they have been applied to many areas of the US precisely to look at growth and		
		urbanization in sensitive or vulnerable environments. Reference to look at: Chaudhuri, Gargi & Clarke, Keith. (2013). The SLEUTH land		
		use change model: A review. International Journal Of Environmental Resource Research. 1. 88. It is recommended that FSC look further		
		into the specific mechanisms and patterns that drive forest conversion and reconsider the blanket Specified Risk designation for the SE.	Consider information	
		This most likely holds true across the country as well. At a minimum specific resources and information available at state levels,	sources and move to a	
		including actual growth modeling results related to urbanization, should be used to inform decisions about appropriate control measures	finer scale assessment	
R	CQ 12	to address Category 4.	for conversion	Economic
		No, urbanization is the main driver of deforestation in the US. Satellite images do not have the fine detail to account for temporary		
		deforestation from harvesting with eventual replanting.	Move to a finer scale	
		However, the scale of determining risk areas should be finer. The webinar I attended said that census tracts will be considered instead	assessment for	
D	CQ 12	of states. I believe this will be at the appropriate scale.	conversion	Economic

		I feel that your methodology of using urbanization and population growth to determine risk areas is misguided and overly simplistic.	Reconsider the	
		There are many thousands of sustainably managed forested land within 20 miles of large urban areas. Why should these forests be	methodology used to	
		flagged as specified risk simply because they lie near urban centers? How, as a secondary processor, could we possibly mitigate a risk	define specified risk for	
		that is so vague? I honestly don't see a path forward to maintaining our CW certification if every county in the West with high	conversion; discuss with	
R	CQ 12	population must be excluded or mitigated.	WG	Economic
	100,11	population must be encluded or minigation.	FSC is required to	
			consider conversion that	
		The vast majority of the US should be viewed as low risk for conversion. The localized conversions that do occur are not related to	occurs, regardless of the	
R	CQ 12			Economic
	CQ 12	forestry and are not significant at an ecoregional level. Conversion of HCVs should not be permitted.	FSC is required to	Leonomie
		Interpretation of Data Uncertainty	consider conversion that	
		All the datasets used in the NRA (e.g., GAP, NLCD, NatureServe) have inherent uncertainties. Only two of these datasets (FIA and NRI)	occurs, regardless of the	
		are based on nationwide statistical sampling designs that enable them to report uncertainty bounds (sampling errors or confidence	driver. Revise Category 4	
		intervals) for their estimates (forest area or biomass). It appears that the reporting of uncertainty for these datasets caused FSC US to	to recognize that the	
		use undue caution in interpreting results from analyses.	analyses at a regional	
		Analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 236). The NRA	scale reflect no signficant	
		notes that a recent NRI report (USDA 2015) " has indicated a decline in forest land in the three Pacific Coast states" (p. 238). However,	difference from zero, but	
		that NRI report includes margins of error for their estimates, and the reported forest losses are well below the margin of error	that there is evidence	
		(Appendix E in the NCASI technical comments), meaning the differences in forest area are not significantly different from zero.	that must be considered	
		From these sources FSC US determined that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded	for assessment at a finer	
		the 0.02% threshold" (p. 237). In fact, though, the analyses of FIA and NRI data are conclusive: there is no statistically significant	scale. Note that while	
			the default scale	
		When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null	identified in the NRA	
			procedure is ecoregion-	
		conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative	scale, it also indicates	
			that the scale should be	
			the broadest scale at	
		1	which administrative	
		values. This is akin to requiring proof of the absence of endangered species or biodiversity elements in a landscape before finding low	contol of land-use	
			planning is undertaken -	
			and in the US this is	
		· · · · · · · · · · · · · · · · · · ·	almost always a local	
		forest area is stable, and conversion (when it does occur) is driven by agriculture or development. We suggest that FSC US accept the	scale. Look for and use	
		scientifically-sound interpretation of "no significant difference" for what it is: an indication that there is no evidence of risk of	more recent information	
R, I	CQ 12		sources.	Economic
<b>,</b> ·	1 2	Glatfelter incorporates by reference the set of comments submitted by the National Council for Air and Stream Improvement (NCASI) on		
R, I	CQ 12	this question.	with NCASI comments	Economic

		Interpretation or Data Uncertainty	FSC is required to	
		All the datasets used in the NRA (e.g., GAP, NLCD, NatureServe) have inherent uncertainties. Only two of these datasets (FIA and NRI)	consider conversion that	
		are based on nationwide statistical sampling designs that enable them to report uncertainty bounds (sampling errors or confidence	occurs, regardless of the	
		intervals) for their estimates (forest area or biomass). It appears that the reporting of uncertainty for these datasets caused FSC US to	driver. Revise Category 4	
		use undue caution in interpreting results from analyses.	to recognize that the	
		Analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 236). The NRA	analyses at a regional	
		notes that a recent NRI report (USDA 2015) " has indicated a decline in forest land in the three Pacific Coast states" (p. 238). However,	scale reflect no signficant	
		that NRI report includes margins of error for their estimates, and the reported forest losses are well below the margin of error	difference from zero, but	
		(Appendix E in the NCASI technical comments), meaning the differences in forest area are not significantly different from zero.	that there is evidence	
		From these sources FSC US determined that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded	that must be considered	
		the 0.02% threshold" (p. 237). In fact, though, the analyses of FIA and NRI data are conclusive: there is no statistically significant	for assessment at a finer	
		evidence of forest conversion that would constitute a threat.	scale. Note that while	
		When making an assertion such as "forests are being lost to conversion", scientists formulate a hypothesis that can be tested. The null	the default scale	
		hypothesis here would be "forests are not being lost to conversion", and the alternative hypothesis would be "forests are being lost to	identified in the NRA	
		conversion". A hypothesis test would specify a level of certainty needed to reject the null hypothesis and accept the alternative	procedure is ecoregion-	
		hypothesis. In the analysis of FIA data, it was demonstrated that measured changes in forest area were not statistically different from	scale, it also indicates	
		zero, meaning that there is insufficient evidence to reject the null hypothesis of no change.	that the scale should be	
		It appears that FSC US seeks a statistically significant demonstration, or proof that forest conversion rates are less than threshold	the broadest scale at	
		values. This is akin to requiring proof of the absence	which administrative	
		of endangered species or biodiversity elements in a landscape before finding low risk of sourcing from areas with HCVs. It is a reversal	contol of land-use	
		of the burden of proof from seeking evidence of risk to seeking evidence of the absence of risk. As such, this is fundamentally	planning is undertaken -	
		incompatible with other portions of the NRA.	and in the US this is	
		FIA and NRI data has been used in broader assessments of forest area change (Wear and Greis 2002, FAO 2016) that conclude that US	almost always a local	
		forest area is stable, and conversion (when it does occur) is driven by agriculture or development. We suggest that FSC US accept the	scale. Look for and use	
		scientifically-sound interpretation of "no significant difference" for what it is: an indication that there is no evidence of risk of	more recent information	
R, I	CQ 12	conversion. We recommend that FSC US make a determination of low risk for conversion when there is a lack of statistically significant	sources.	Economic

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		TAILER putting aside the quantitative data due to reported uncertainties, FSC US subsequently completed a literature review to look at this question and determine if any provies existed that could be used to assess conversion in a more qualitative mapper" (p. 227). From		
		this question and determine if any proxies existed that could be used to assess conversion in a more qualitative manner" (p. 237). From		
		this literature review, "FSC US staff concluded that urbanization and population growth present the best possible proxy for forest		
		conversion in this risk assessment" (p. 237). However, several conclusions from the literature review are supported not by data or		
		analyses of current forest conditions, but from older data or modeling exercises that analyze possible future scenarios. For example, the		
		following statements from the NRA appear to be reporting recent measured changes, but are citing publications that are more than a		
		decade old, or involve models and projections:		
		"This leaves urbanization as the strongest pressure for forest conversion, a conclusion that is supported by numerous sources [Sources: 2, 4, 5, 6, 7]." (p. 237)		
		"the Southeast and Pacific Coast regions are experiencing forest loss and concurrent rapid population growth [Source 2]." (p. 237)		
		"the highest rates of urbanization are occurring in the Piedmont region from northern Georgia through North Carolina into Virginia. Forest loss is also occurring along the Atlantic Coast and in eastern Texas [Source: 4,5,6,7]." (p. 237)		
		"Despite the high rates of urban growth across the Southeast, there are some states that are experiencing lower rates of population		
		growth and forest loss, including Mississippi, Alabama and Arkansas [Source 7]." (p. 237)	Numerous credible	
		Breath and references) measuring missionippi) rindamia and rindinates (course 7). (pr 207)	information sources	
			identify urbanization as a	
		"The Pacific Coast Region is also experiencing urban growth leading to conversion from forest to non-forest land use, though this growth	driver of forest loss.	
		appears to be concentrated on the western portions of Washington and Oregon [Source 3,11]." (p. 237-238)	Review sources to ensure	
		appears to be concentrated on the western portions of washington and oregon [source 3,11]. (p. 237-238)	they adequately support	
		The brief descriptions of the NDA sources sited (below) illustrates how these are level, alder date and/or modeled projections of		
		The brief descriptions of the NRA sources cited (below) illustrates how these are largely older data and/or modeled projections of	findings. Look for and use	
ь.	60.43	possible future scenarios.	more recent information	F
R, I	CQ 12		sources.	Economic
		Using a proxy seems to be a dangerous and potentially unfair approach altogether, particularly at the scale it is currently being applied.		
		Even going to the county level around urban centers – for example Portland or Seattle, could be misleading. Some of the counties with		
		the highest growth rates also have thousands of acres of sustainably-managed forest land. It seems to me in this case, that FSC has	Discuss with WG; move	
_		used broad strokes to define something that can be examined at a much finer scale, and put the onus of mitigating a poorly-defined risk		
R	CQ 12	on certificate holders.	designations	Economic
		AF&PA incorporates by reference the comments submitted by NCASI on this question.		
		Conversion should be designated as Low Risk for the entire U.S. NCASI describes the appropriate approach in its comments, which has		
		been used for many years by companies relying upon the 2008 American Hardwood Export Council report.		
		It is not clear why population growth has been the chosen metric for risk of forest conversion. There are several types of land use		
		including forested, range, and farmland. Land can move back and forth in time across various types of land, and based on FIA data U.S.		
		forest area is stable.		
		In short, using a proxy to determine risk in this case is unnecessary and should be removed. Data directly related to forest land cover	See actions associated	
R, I	CQ 12	exists and should be used to determine risk.	with NCASI comments	Economic
		AFRC incorporates by reference the comments submitted by NCASI on this question.		
		It is not clear why population growth has been the chosen metric for risk of forest conversion. FIA data show U.S. forest area is stable in		
		spite of population growth.		
		Using a proxy to determine risk in this case is unnecessary and should be removed. Data directly related to forest land cover exists and	See actions associated	
R, I	CQ 12	should be used to determine risk.	with NCASI comments	Economic
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			1	T
		No. However, in the Southeast it appears that the FSC regional boundary was primarily used to delineate the area most at risk for		
		conversion in the states of Virginia, North Carolina, South Carolina and Georgia while leaving out the states of Mississippi and Alabama.		
		If higher rates of urban growth is the primary reason for this determination it seems that it would be more accurate to designate only		
		the counties were this high rate of urbanization is occurring rather than to designate the entire region as at risk when most of the		
		counties within the regional boundaries are not exhibiting significant urban growth. Why place all of the Piedmont and Coastal Plains of		
		Virginia, North Carolina, South Carolina and Georgia at risk for conversion when the only real risk for conversion is occurring in proximity		
		to the larger metropolitian areas such as Richmond, Raleigh/Durham, Winston-Salem/Greensboro, Charlotte, Columbia,		
		Greenville/Spartenburg and Atlanta. Conversely It is likely that there is also a higher rate of urban growth around the cities of Jackson,		
		Mississippi and Birmingham, Alabama yet these states are entirely designated as low risk for conversion. The same reasoning would	Move to a finer scale	
		hold true for the Pacific Coast and it is our belief that outside of the major metropolitan areas in the region there is little risk of	assessment for	
R	CQ 12	conversion.	conversion	Economic
		No. The practical assumption that forest conversion is linked primarily to urbanization is not likely to be contested. The practical		
		implications, however, are less than clear.		
		The NRA correctly notes that forest loss through conversion – broadly speaking – is not a significant problem in the US. The decision to	FSC is required to	
		focus on the vexing and complex issues of urban sprawl in specific regions is likely to prove a mistake.	consider conversion that	
		The NRA fails to convincingly link forest loss through conversion to anything that is within the influence of commercial land managers or	occurs, regardless of the	
		wood procurement organizations. Without this link, the FSC network is left searching for ways to influence the growth of urban centers	driver, or CH's ability to	
R	CQ 12	like Atlanta, Durham, and Los Angeles. This is neither useful nor practical.	influence the driver.	Economic
11	CQ 12	ince Adanta, burnam, and Los Angeres. This is netaler discrain not practical.	minucinee the driver.	LCOHOTTIC
		Does urbanization and population growth account for large scale industrial developments in regional areas? This generally requires a		
	60.43	change in land-use zoning and so is covered by the standard – Data centers etc.	Bis and a side MC	F
K	CQ 12	Does the urbanization and population growth dataset account for sites of OGM (Oil, Gas and mineral extraction).	Discuss with WG	Economic
			The threshold is given in	
		I am strongly against the change from a conversion threshold of .05 to .02%. We cannot have a limit that is within a normal margin of	the NRA procedure and	
		error. It makes it impossible to designate low risk.	we do not have control	
		We should commission a study to evaluate where conversion is occurring and what the most relevant actions we can take to help stem	over it. This kind of study	
		the tide.	would provide valuable	
		Solutions to conversation (long-term avoidance) vs avoidance (short-term solution): Sustainable Northwest is involved in state lands	information in the future,	
		stewardship planning and community forest work. We support communities' buy the forests near their communities to protect drinking	but is not going to affect	
		water and avoid conversion. Actions like these are net positive and tangible. They must be part of the solution as we think outside the	the outcomes of the	
Χ	CQ 12	box. We cannot simply make them additive to the "avoidance" work required prior to the new CW standard and NRA.	current assessment	Social
			See actions associated	
		WestRock incorporates by reference the comments submitted by NCASI on this question.	with NCASI comments.	
		It should be noted that land conversions are not controlled by the forest products industry. Existing control measures listed in the FSC	Discuss example CM with	
R, I	CQ 12	Controlled Wood Standard Std-40-005-V3.1 should be consulted and recognized.	WG.	Economic
.,,,	CQ 12	Constituted Trood Standard Sta 40 005 VS.1 Should be consulted and recognized.		Leonomic
		The research shows that on balance, there is no conversion issue, so why are we looking for another way to find a conversion problem??		
		If there are concerns with conversion, then just say so, and don't bother looking for datasets to support the point of view. Just make the	Boyiou /royico languago	
	CO 13			Econom:
1	CQ 12	statement and implement Control Measures.	to ensure transparency.	Economic
		As suggested at the regional meetings and detailed by other commenters (NCASI) the data for urbanization and population growth can		
		be parsed at the county scale.	Move to a finer scale	
		The draft maps do not seem to align with current population trends. Many portions of designated significant risk states (Georgia,	assessment for	
IR	CQ 12	Louisiana, South Carolina, North Carolina, Virginia) are clearly losing population and gaining forest cover.	conversion	Economic

		Firstly, why seek only resources that identify places of higher than low risk? A comprehensive review of all resources regardless of the outcome should be the desire of the NRA process.  For example  The Cornerstone project employed by the Southern Forest Futures Project. The results of this model and predicted outcome for land use was captured and analyzed. "By model construction, urban forecasts are driven exclusively by population and income forecasts and are		
		not influenced by the future trajectory of timber or agricultural prices." Why is the model not influenced by timber and agricultural prices? Answer is simply because these factors do not and will not stop or slow urban growth. Specifically, the SFFP concludes		
		"Cornerstones C and D, gains in urban uses are widespread with the exception of the few areas expected to experience population declines (such as the Mississippi Alluvial Valley and southwestern Alabama)." How can identified population decline result in the	FSC is required to	
		designation of Louisiana as an area of unspecified risk for forest conversion in the 2nd draft of the NRA? The SFFP also concluded that	consider conversion that	
		"Although the net area of forest land is projected to decrease, the area of some forest types is expected to increase. The area of planted pine could increase between 20 percent and 72 percent to as much as 33 percent of total forest area over the 50-year projection period.	driver, or CH's ability to	
		Increases in planted pine are expected across all ownership groups, but the greatest acreage gains are on private forest lands. Modeling restrictions preclude disaggregation of changes into specific private ownership groups. But planted pine requires an upfront investment,	influence the driver. Consider the SFFP	
		which in the South at least, is a general indicator of owner intent—commercial production of timber." Researchers are unable to	information source which	
R, I	CQ 12		does indicate predictions for forest loss.	Economic
		There is reliable information in the FIA and NRI datasets that is useful for directly analyzing the risk of conversion sources at the state		
		and sub-state (forested regions) level and this data diminishes the need for a proxy. The FIA and NRI data is not statistically reliable at the county level. If additional information is needed to supplement the FIA and NRI data, then FSC should develop a direct, consistent	Consider other data that could be used alone or in	
		and reliable relationship between the selected metric and conversion. Many urban areas with significantly increasing populations are	combination with	
	CQ 12	not experiencing land use conversion at historical rates related to increased density.	population growth.	Economic

	ı	TSee NCASI comments.		I
		Conversion should be designated Low Risk for the entire US. The FIA data and analysis is more than adequate to justify a low risk		
		designation for conversion. There is not a need for a proxy, and the idea of going to a proxy should be dropped.		
		The criterion of having to "prove" that the 0.02% or 5,000 hectare threshold is not exceeded (using the reverse null hypothesis setup) is		
		an unreasonable and unscientific approach, as is well documented in the NCASI comments. The appropriate approach, as described in		
		the NCASI comments, is what has been employed to designate low risk for conversion in the US for many years (up until now), and as		
		such, it has precedent as being valid. It was the approach taken in the 2008 American Hardwood Export Council (AHEC) report, which is		
		the primary source and basis for most US company risk assessments (we note that Dr. Gary Dodge, formerly on the FSC-US staff, co-		
		authored the AHEC report). If the reverse null hypothesis approach had been used in the AHEC analysis, then proof of not exceeding the		
		thresholds under 40-005 V2-1 (zero net loss and 0.5% per year rate of loss) could not have been met. We also note that, in FSC-PRO-60-		
		002a, table on page 40, the criteria to designate specified risk is stated the same way as the criteria to designate low risk, that is, it		
		must be "proven" that the threshold is exceeded in order to designate specified risk. This, of course, cannot be done with the FIA data		
		either.		
		Another point regarding the table on page 40 of 60-002a relates to consideration of economic drivers for conversion. We note that there		
		are many federal and state programs for family forestland owners that provide cost sharing or cost subsidies for reforestation and other		
		forest management activities, and these programs are a significant economic driver that counters conversion. Examples of federal		
		programs are, Conservation Reserve Program (CRP), Environmental Quality Incentives Program (EQIP), Wildlife Habitat Incentive		
		Program (WHIP), Conservation Stewardship Program (CSP), Regional Conservation Partnership Program (RCPP), Healthy Forest Reserve		
		Program (HFRP), and Forest Stewardship Program.		
		The simple and plain fact is that forestland area in the US has been, and continues to be, very stable over long periods of time, and this		
		is solidly corroborated by the FIA data. The approach perhaps that should be taken is that, if not exceeding the threshold cannot be		
		proven otherwise, then the FIA data is used as the "proxy." Using population growth as the proxy has several pitfalls that make it		
		inappropriate and arbitrary, as outlined in the NCASI comments.		
		We suggest that a logical and legitimate way to arrive at a low risk designation is the following:	Discuss the proposed	
		1. FIA data indicate that, over long periods of time, net forestland area in the US has remained, and continues to remain, stable (not	methodology with the	
R	CQ 12	statistically different from zero).	WG	Economic
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	60.43	Manual Ma		E
X	CQ 12	Not at this time.		Environmental
		See commentary in #12 above and:		
		[1] Homer, C. C. Huang, L. Yang, B. Wylie and M. Coan. 2004. "Development of a 2001 National Landcover Database for the United		
		States." Photogrammetric Engineering and Remote Sensing, Vol. 70, No. 7, July 2004, pp. 829-840.		
		[2] Jin, S., Yang, L., Danielson, P., Homer, C., Fry, J., and Xian, G. 2013. A comprehensive change detection method for updating the		
		National Land Cover Database to circa 2011. Remote Sensing of Environment, 132: 159 – 175.		
		[3] Multi-Resolution Land Characteristics Consortium. "NLCD 2001 Land Cover Class Definitions." Available from:		
		http://www.mrlc.gov/nlcd_definitions.php	Consider these sources	
		[4] FIA Research Foresters	when revisiting	
		[5] WWF "Living Forests Report: Chapter 5 – Saving Forests at Risk" Published in 2015 by WWF - World Wide Fund for Nature (formerly	conversion for the final	
1	CQ 13	World Wildlife Fund), Gland, Switzerland	draft.	Economic
			Consider methodologies	
			and information sources	
				i .
		Have you tried compiling existing documentation from various companies risk assessments? Some have spent a good deal of time and	in company risk	

х	CQ 13	No, all of my known sources are mentioned in the assessment		Economic
I	CQ 13	State and locality specific growth models	Consdier available growth models	Economic
I	CQ 13	State and locality specific growth models	Consider available growth models	Economic
I		U.S. Census Bureau has county level data to narrow the risk of conversion to specific areas within a state. This would be a better alternative to the state-wide approach.	Consider county-scale census data	Economic
I		There is a Bobwhite Quail dataset available https://www.quailcount.org; this is especially relevant because these quail are an indicator species and can give a robust understanding of ecosystem health.	Consider the Bobwhite Quail data and whether it provides information about the types of forests that are being lost to urbanization	
I		See above. FIA data is sufficient to show broad trends; census data allows for interpretation at a finer scale.  Seek out and consult state and locality-specific growth models.	areas  Consider available growth models	Economic Economic
I		State and locality specific growth models. Contacting USFS FIA staff in Portland, OR and elseshere that have been conducting conversion research for many years and have multiple datasets.  Both the USFS and State agencies have created State level assessments of forest resources many of which address conversion.  Consult state and county laws and regulations that be in place to mitigate conversion. Some area have requirements of tree removal over a certain diameter for example.	Consider growth models, USFS and State agency assessments of forest resources, and finer scale laws and regulations. Consider census data to refine the specified risk	Economic

Two of the data sources used for assessment of comersion risk are based on a thorough, extensive, and robust statistical sampling design (FIA and NRI). These programs provide data that include estimates (such as forest area or timber volume) as well as uncertainty bounds (sepressed as sampling errors or confidence internals). It appears that the explicit estimation of uncertainty for these datasets caused FSC to use undue caution in interpreting results from analyses. In fact, all the datasets used in all portions of the NRA include uncertainty, but only these two datasets provide estimates of the that uncertainty. When analyses of FIA data showed that "the rates of forest cover change are so small as to be statistically insignificant" (p. 283). FSC concluded that "it is not possible to quantitatively conclude whether the conversion rates actually exceeded the QueSt method (if QueSt Testhod (if QueSt Testhod (if QueSt) is received to 2315, stating "The National Resources Inventory has indicated a decline in forest land in the three Pacific Coast states" (p. 288). In fact, the National Resources Inventory has indicated a decline in forest land in the three Pacific Coast states" (p. 289). In fact, deependix D), meaning the differences in forest area are not significantly different from zero.  When making an assertion such as "firests are being lost to convention", and the alternative hypothesis would be "forests are not being lost to convention", and the alternative hypothesis would be "forests are not being lost to convention", and the alternative hypothesis and accept the alternative hypothesis has the convention and the high problems and the provided forest convention and the provided in hypothesis shall be provided to the provided in hypothesis and accept the alternative default scale identified in hypothesis. The certainty threshold volude indicate the chance of incorrectly rejecting a true and hypothesis shall be indicated that the scale shall have been appeared by the provided of the provided in the provid		1	we strongly suggest that FSC US take the following into account about that datasets that they are currently using:		1
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		Refer to FSC Bonn, DE remote sensing initiative. More satellites going up every day, cost of data they relay will fall along Moore's Law		
		(get a lot cheaper) as IT capabilities, cloud computing continue to advance. ARC View data sets, overlays available for sale to support		
		the NRA. FSC needs spatial analyst to manage centrally the content which will come from public shareholder commentary, new		
		research, efficacy of documented mitigation efforts.	Consider methodologies	
			and information sources	
		Also suggest delving into the Risk Assessments from the major producers like Potlatch, Weyco, etcWeyerhaeuser in particular as they	in company risk	
	CQ 13	own so much land and can afford the resources needed to put best minds on topic.	assessments	Economic
	50, 15	Global Forest Change – University of Maryland.	Consider global Forest	Legitorine
		http://earthenginepartners.appspot.com/science-2013-global-forest?hl=en&llbox=83.7%2C-77.2%2C-179.4%2C-	Watch and University of	
	CQ 13	177&t=ROADMAP&layers=layer1%3A100%2Clayer9%3A100%2C6%2Clayer12%2C12%3A100%2C11	Maryland data sets	Economic
!	CQ 13	177 XL=NOADIVIAF XII ayei 17/03A1007/02Ciayei 97/03A1007/02Ciayei 12/02Ci2/03A1007/02Ci1	Consider methodologies	Economic
			and information sources	
		I suggest compiling the existing CW risk assessment to mine the valuable source information each copy was able to find. These reports	in company risk	
	CQ 13	represent thousands of hours of work on the subject.	assessments	Social
ı	CQ 13	represent thousands of hours of work of the subject.	Move to a finer scale	Social
		If FSC-US continues to use population growth (and clarifies how it is tied to a decline in forest land use) sources such as the U.S. Census	assessment for	
D 1	CQ 13		conversion	Economic
R, I	CQ 13	Bureau, which have county level data on population trends, should be used to lessen specified risk areas.	Consider census data at a	
<b> </b> .	60.43	FIA de la transferio de la companya	finer scale for specified	F
l .	CQ 13	FIA data is sufficient to show broad trends; census data allows for interpretation of population dynamics at a finer scale.	risk	Economic
		Suggest restating the question to eliminate the inference of "affordable." Datasets and models will need to be invested in by all		
		stakeholders to best predict the movement of land conversion.		
Х	CQ 13	Information gleaned from FIA analysis serves as a defensible dataset accepted by various sustainability certification schemes.		Economic
X	CQ 13	No, FIA is the only definitive and credible source.		Economic
			Consider Global Forest	
I	CQ 13	GFW is a resource for monitoring.	Watch datasets	Environmental
С	CQ 14a	Procurement policies in conjunction with origin sourcing data will allow procurement organizations to manage conversion fiber.	Discuss with WG	Economic

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		Typically, forestry is not the primary economic driver of conversion to other uses (e.g. development, agriculture). Therefore, we reiterate that FSC mitigation actions are not appropriate nor will they be effective.		
		It is inappropriate to be asked to support or oppose "educational information" when we haven't even seen it. We oppose the concept of mandatory education information as this should be more of a mitigation option/activity discussion. That way we can determine the most appropriate information and whether it is an option chosen.		
		With lack of alignment on the identified specified risk areas in the draft NRA and mitigation measures not yet identified to manage risks, it is impractical to solicit support of mandatory avoidance of sourcing from these areas or expect suppliers to implement yet-to-be-determined actions on mitigation.		
		Additionally, lack of evidence has been provided that conversion of forestland always results in "adverse impacts." Despite development in the United Stated, there is more forestland today than there was 100 years ago.		
С	CQ 14a	The draft statement provided as a required statement to suppliers regarding conversion is not something that is supportable given the comments above. Generally, dictating the contract terms between independent suppliers and purchasers is not an acceptable approach.	Discuss with WG	Economic
		One thing that immediately comes to mind – in California, many different types of harvest are called "exemptions" or even "conversions" – but they may not be true conversions based on the FSC definition. One easy control measure would be to not buy true forest conversion harvests (i.e. removing forest to plant a vineyard or removing forest to make a parking lot). Versus a conversion that is clearing a group of trees near a house in order to get a better viewshed (not a forest to be converted). Even if it's greater than 100 acres but not truly a conversion of forest land – it should be allowed. Also in the FSC risk assessments procedures for businesses conducting their own risk assessments there is something called "socially acceptable conversion" this should be included in the National Risk Assessment and I do think the first public draft included some allowance for conversion for something that was for the public good – i.e.		
С	CQ 14a		Discuss with WG	Economic
С	CQ 14a	Defining "acceptable levels of conversion" and determining if a state or county has requirements in-place for removal of trees.	Discuss with WG	Economic

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		civi 4.a: Not supportive. The statement regarding 100-acre or larger conversion requires further explanation. Most people who read it		
		assume that wood from conversion of tracts smaller than 100 acres would be accepted. I think it should be, but I don't know whether		
		that is the intent.		
		More broadly, if FSC persists in attempting to prohibit the use of conversion wood from large-scale wood-consuming mills in the eastern		
		United States the chaos and confusion regarding FSC Controlled Wood programs in this region will continue and intensify. The path you		
		are on at this time doesn't seem likely to improve the situation.		
		There seem to be three paths, depending on intent:		
		1. Clearly state a reasonable amount of conversion wood that is allowed in the FSC system; Outcome: This should work for some and		
		perhaps most CW certificate holders, but you'll have some unhappy FSC stakeholders;		
		or		
		2. State that no conversion wood is acceptable in the FSC system, and then create a system that quietly tolerates a considerable		
		volume of conversion wood in FSC products (status quo); Outcome: This will result in continued erosion of the system's credibility; or		
		3. State that no conversion wood is acceptable, and then implement a system that is intended to drive conversion wood out, other than		
		very small volumes that might enter the system unintentionally or through fraud; Outcome: This is also credible, but some major		
		organizations will drop their FSC certification.		
		It would be more efficient if we knew sooner rather than later which of these three approaches is intended. Some participants believe		
		that path 2 is the preferred direction at this time. It is difficult for FSC to officially advocate this path, so we'll assume this is the chosen		
		path unless there is a clear statement of intent to pursue #1 or #3.		
		path unless there is a clear statement of ment to parsac #1 of #3.		
		CM 4.b: Supportive, depending on resolution of intended outcomes (path 1, 2, or 3) and on the timing of the meetings and quality and		
		usefulness of the discussions and information made available. In framing the meetings an emphasis should be placed on an adaptive		
		management approach, wherein any approach with at least some chance of being effective is included initially, pending results of		
		effectiveness monitoring over time. The meetings will attract people who want to develop useful information and practical options only		
		if potential meeting participants understand the goal is to advance conservation efforts and advance the practice of forestry, not to		
C A	CQ 14a		Discuss with MC	Faanamia
C, A	CQ 14a	designate "no harvest" areas or "monkey-wrentch" the practice of forestry.	Discuss with WG	Economic
		Healthy, unrestrictive markets of forest products for forest landowners are the best mitigation action for conversion. Landowners are		
		more likely keep forests as forests when fewer and less cumbersome restrictions are placed upon them. With healthy competitive		
		markets, landowners are motivated to actively manage their forests and keep them healthy in ways that benefit the environment,		
С	CQ 14a	wildlife, and the general public.	Discuss with WG	Economic
		In addition to the general topic of conversion, related issues such as fragmentation and parcelization of forested lands should be	Consider a finer scale	
		considered when looking at the bigger picture issue of driving positive change in the management of forested lands in areas with rapidly	when developing risk	
		expanding and extensive land use changes. The SE region is noted in the NRA as Specified Risk for conversion. Where fragmentation is	designations; note that	
		occurring, canopy cover may not be lost, but issues arise because resources on these smaller tracts (less than 50 acres) may become	CM are required to	
		unavailable to markets. Both fragmentation and parcelization lead to smaller and less efficient units, which contribute to cost increases	mitigate the risk	
		and resource management difficulties. Wholesale categorization of the SE as Specified Risk for conversion may actually prove to be a	identified - expanding to	
		barrier to increasing the amount of forested land managed in a sustainable manner for inclusion as controlled wood. This is something	address other issues	
D V	CQ 14a	that should be considered in the NRA.	would be out of scope.	Economic
R, X	CQ 14a	that should be considered in the NKA.	would be out of scope.	Economic
		This prosting is realized as a with additional culties are taking Distinguishing had used for at management and Control of Control o		
		This question is unclear, even with additional online material. Distinguishing between forest management certificates and certificate		
		holders farther along the supply chain would help.		
		Forest managers must not deforest. Certificate holders further down the supply chain need to have a clear policy of not buying from		
С	CQ 14a	suppliers who have deforested (whether FSC or not).	Discuss with WG	Environmental

		Urban growth is the source of conversion in the US. Certificate holders are unable to mitigate or control growth. STD-40-005 v3-1		
		Annex E, Section 7, Table B example control measure states "or shall assure that material originates from acceptable sources of		
_		conversion (e.g. conversion that results in conservation benefits, SLIMF sources with maximum size, publicly approved changes in zoning		
С	CQ 14a	, , 0 1	Discuss with WG	Economic
		In addition to the general topic of conversion, related issues such as fragmentation and parcelization of forested lands should be		
		considered when looking at the bigger picture issue of driving positive change in the management of forested lands in areas with rapidly		
			Consider a finer scale	
		example, many States have concerns over land use changes impacting forested areas. Some are due to outright permanent conversion	when developing risk	
		but some involves fragmentation and parcelization. In the Georgia Forestry Commission's 2010 Statewide Assessment of Forest	designations; note that	
		Resources (as an example) there is some discussion about problems related to fragmentation, where canopy cover may not be lost, but	CM are required to	
		where issues arise because resources on these smaller tracts (less than 50 acres) may become unavailable to markets. Both	mitigate the risk	
		fragmentation and parcelization lead to smaller and less efficient units, which contribute to cost increases and resource management	identified - expanding to	
		difficulties. Wholesale categorization of the SE as Specified Risk for conversion may actually prove to be a barrier to increasing the	address other issues	
R, X	CQ 14a	· · · · · · · · · · · · · · · · · · ·	would be out of scope.	Economic
		In addition to the general topic of conversion, related issues such as fragmentation and parcelization of forested lands should be		
		considered when looking at the bigger picture issue of driving positive change in the management of forested lands in areas with rapidly		
			Consider a finer scale	
			when developing risk	
			designations; note that	
			CM are required to	
			mitigate the risk	
			identified - expanding to	
			address other issues	
R, X	CQ 14a	amount of forested land managed in a sustainable manner for inclusion as controlled wood.	would be out of scope.	Economic
Ν, Α	CQ 14a	amount of forested fand managed in a sustainable manner for inclusion as controlled wood.	would be out of scope.	Leonomic
			N/A - associated	
		The purpose of the educational materials is unclear. It is difficult to determine control measures for urbanization as most material from	requirement has been	
С	CQ 14a	these conversions is not utilized in traditional forest industry anyway. The material is usually burned on site.	removed	Economic
		I don't see how my company, through any possible mitigation could possibly alter patterns of conversion. I will be happy to attend		
		Regional Meeting but to expect something to come out of those meetings that will change patterns of conversion is highly unlikely. This		
C	CQ 14a		Discuss with WG	Economic
C	CQ 14a	issue needs to be addressed at a macro level by states, BLM, Forest Service, conservation groups, etc.	DISCUSS WITH WG	ECONOMIC
		No, the US forest products supply chain will not stop forest conversion from happening in isolated development projects. This is not the		
		economic driver for the conversion in the first place. Any unreasonable control measure will put the CH at an economic disadvantage to		
С	CQ 14a	non-certified companies.	Discuss with WG	Economic

Х, Е	CQ 14a	<ol> <li>Stumpage fees for wood that is cleared for the development of a "big box store" is not the driver for conversion, and it is unlikely that it is taken into account by the developer of a property.</li> <li>The definition of "plantations" also remains unclear in the CW documents.</li> </ol>	Review plantation definition to ensure consistent with FM standard.	Economic
С, Е	CQ 14a	Stumpage fees for wood that is cleared for the development of a "big box store" is not the driver for conversion, and it is unlikely that it is taken into account by the developer of a property.  It is also unclear why the 100 acre threshold was included in this draft as a control measure. Under the process laid out by FSC-US, it appears it should be treated as a mitigation measure.  The definition of "plantations" also remains unclear in the CW documents.	Discuss CM with WG and review plantation definition to ensure consistent with FM standard.	Economic
С	CQ 14a	My feeling is that it is unrealistic to think that certificate holders have the ability to alter patterns of conversion. The greatest drivers of conversion, as stated in the draft NRA, are growing population and urbanization. Policies that would affect change in the rates of conversion that arise as a result of these drivers would need to go far beyond anything a certificate holder would be capable of on their own. Here in the Pacific Coast region, plenty of work is being done around some rapidly-growing major metropolitan areas to minimize the impact of urbanization on forested and agricultural land. Certificate holders could find ways to actively participate in regional planning processes to support policies aimed at limiting conversion, although this could be challenging or even unrealistic for certificate holders located far from any center of urban growth.	Discuss with WG and incorporate idea in mitigation discussion	Economic
R, C	CQ 14a	of paramount importance. If this wood is not allowed within the FSC Controlled Wood system, it will be likely be burned or landfilled.  We suggest that you refer to our answers for questions 12 and 13 above and re-assess the need for Category 4 Control Measures. We would be willing to suggest potential control and risk mitigation measures once FSC US revisits the data that it uses to support its argument that these measures are needed in the first place.	Discuss with WG	Economic
R, C	CQ 14a	Enviva specific comment Conversion to non-forest use is not an effect of timber harvesting. Timber harvesting or clearing operations are not the reason conversion occurs, it is just the means used to open the space. Control of conversion needs to be addressed in the proper venues with the proper audience.  Forest product companies have little control over a landowner's plans for land use. However, efficient utilization of conversion wood is	Discuss with WG	Economic

		Columbia remains concerned about what constitutes "conversion" in FSC. If Columbia is to eliminate 100 acre plus conversion clearcut wood, this would need to be stipulated in contract to a log supplier. How does mountaintop removal mining play into this? It is eventually reclaimed but does it meet the definition? The term "socially acceptable conversion" should also be factored into the NRA		
		with roads, drinking water, carbon neutral power (windmills, solar farms.)		
		With respect to specific mitigation action, it appears to steer clear of anti trust concerns to fund, support organizations which strive to mitigate conversion where it exists rather than black list clearcuts.  The FSC US will have to help us all identify organizations to support which address conversion but who do not permanently lock up		
		conservation easements, rather promise to maintain and manage the forest as working forests.  Bigger firms can donate funds to these organizations, or perhaps we can all belong to FSC US which does this (but that is a conflict for FSC as a standards-setting organization.) Is there a role for a separate trust? Is FSC ready to endow itself like Yale to address these types of missions? Does it have the capacity?		
С	CQ 14a	Within the Appalachian Woodland Alliance, we are touching these topic areas lightly. If there are specific actions to take, we might try to collectively execute them within AWA, potentially and prototype certain types of activities a national initiative might contemplate as an incubator.	Incorporate idea in mitigation discussion	Economic
x	CQ 14a	No. See notes above.		Economic
С	CQ 14a	One potential mitigation action could be that should changes to a site occur, and the site will be replanted/rehabilitated within an acceptable time-frame, full plans and procedures on replanting could be required prior to harvest approval.	Incorporate idea in mitigation discussion	Economic
		I suggest looking at risk mitigation as solving the problem on a long-term scale vs risk mitigation related to avoiding "bad" wood from forests that have already been lost. In this way, are there projects or efforts in regions and communities that companies can plug into and support vs running a mitigation program to avoid wood at the facility?  Take the community forest model. Communities would benefit from pro-bono work related to harvest planning, or purchase commitments for wood when restoration or commercial harvests occur. Are mills willing to invest in community forests or support them with human resources or preferred sourcing contracts?		
		For HCV I would suggest that fire is a major disturbance causing loss of HCVs. Are there things CoC and FM companies can do to help	Incorporate ideas in	
С	CQ 14a	reduce fire risk and reduce these disturbances vs simply avoiding wood in their FSC system in the short term?	mitigation discussion	Social
С	CQ 14a	It should be noted that land conversions are not controlled by the forest products industry. Existing control measures listed in the FSC Controlled Wood Standard Std-40-005-V3.1 should be consulted and recognized.	Incorporate ideas in mitigation discussion	Economic
		Conversion is not something that FSC will have control or input on. Conversion is an ownership decision (for private land) or tenure obligation for public land, where sovereign control rests.		
v	CQ 14a	FSC needs to stay away from trying to become a Regulatory Agency, and stick with voluntary certification of sustainable forest		Economic
	CQ 14a	management.	l .	LCOHOHIIC

		assume that wood from conversion of tracts smaller than 100 acres would be accepted. We think this should be the intent.		
		If FSC persists in attempting to prohibit the use of conversion wood (to non-forest use due to population growth) by large-scale wood-		
		consuming mills in the eastern United States the chaos and confusion regarding FSC Controlled Wood programs in this region will		
		continue and intensify. Our company is concerned with the direction of this situation. Population growth and potential conversion of		
		forests to non-forest use is not driven by wood demand from forest products companies. The path you are on at this time doesn't seem		
		likely to improve the situation.		
		There seem to be three paths, depending on intent:		
		1. Clearly state a reasonable amount of conversion wood that is allowed in the FSC system; Outcome: This should work for some and		
		perhaps most CW certificate holders, but you'll have some unhappy FSC stakeholders;		
		or 2. State that no conversion wood is acceptable in the FSC system, and then create a system that quietly tolerates a considerable volume		
		of conversion wood in FSC products (status quo); Outcome: This will result in continued erosion of the system's credibility; or		
		3. State that no conversion wood is acceptable, and then implement a system that is intended to drive conversion wood out, other than		
		very small volumes that might enter the system unintentionally or through fraud; Outcome: This is also credible, but some major		
		organizations will drop their FSC certification.		
		It would be helpful to know sooner rather than later which of these three approaches FSC plans to take.		
		CM 4.b: Supportive, depending on resolution of intended outcomes (path 1, 2, or 3) and on the timing of the meetings and quality and		
		usefulness of the discussions and information made available. In framing the meetings an emphasis should be placed on an adaptive		
		management approach, wherein any approach with at least some chance of being effective is included initially, pending results of		
		effectiveness monitoring over time. The meetings will attract people who want to develop useful information and practical options only		
		if potential meeting participants understand the goal is to advance conservation efforts and advance the practice of forestry, not to		
		designate "no harvest" areas.		
C, A	CQ 14a	CM 4.c: Supportive. Advance work is critical, including attracting collegial participants, providing useful advance materials, and having	Discuss with WG	Economic
		As stated in the main body of our comments, if urbanization is the strongest pressure for forest conversion, then it does not seem		
		appropriate to include it as a specified risk that forestry sourcing standards can mitigate for. However, it is worth noting that a strong		
		forest products market, and the ability to actively manage forests, in itself prevents conversion of forestland. If landowners view		
		timberlands as profitable investment, and they do not find it too difficult to navigate regulations (and certifications), they will be more		
		likely to replant a forest than convert the land to "higher and better uses".  Mitigation measures including participation in pooled advocacy programs promoting wood and fiber markets such as the USDA check-	Incorporate ideas in	
C	CQ 14a	offs would serve as a way to ensure participants are seeking to establish rewards for owning forests.	mitigation discussion	Economic
	CQ 140	ons would serve as a way to ensure participants are seeking to establish rewards for owning forests.	initigation discussion	Economic
		The consideration of control measures (preventing unacceptable sources from entering the supply chain) and mitigation measures that		
		contribute to threat alleviation should be distinct. Realistically the application of control measures and/or mitigation actions by		
		certificate holders is not going to have a significant impact on the threat to forests from conversion. Certificate holders can reasonably		
1		implement measures to prevent the mixing of conversion sources into mixed label certified content, but it is not reasonable to expect		

С	CQ 14a	We do not have any suggestions for mitigation measures.  As to the proposed control measures, we comment that the 100-acre threshold is not appropriate to include as a control measure. First, this is a mitigation measure, not a control measure, and if such a threshold is to be established as a mitigation measure, it should be the result of the regional meetings. Second, establishing such a threshold, of any size, is quite problematic from a practical implementation standpoint. Certificate holders will ultimately be forced to keep up with and document, on a site basis, that they are meeting the requirement. As we have commented numerous times for various public consultations in the past, this would introduce an extremely onerous administrative burden relative to an extremely small percentage of the wood that is sourced. Furthermore, we would be relying on the representation of suppliers and landowners. That will put us in the awkward position of, once the timber is removed, the landowner could change his mind and decide to convert the property, or to sell it to a developer. We, the certificate holder, then get called to task and have a complaint filed against us, and, if we don't have documentation that the landowner originally represented that he would not convert it, we risk being judged as not in compliance. We can't read landowners' minds nor predict the future.	Discuss with WG	Economic
_		Not at this time, though note that although some activities may already be taking place, opportunities to augment or amplify those	Incorporate ideas in	
С	CQ 14a	activities should not be disregarded given the scale of the issue.	mitigation discussion	Environmental
Α	CQ 14b	Yes, in both short and long-term.  No, because the current criteria are un-manageable for forest products companies both in the short term and the long term: (i) in many	n/a	Economic
С	CQ 14b	instances, there is no way to know if wood is coming from home or business developments until well after the fact;(ii) forest industry lacks the expertise and resources to "police" development clearing, as this is well outside of their line of business. Furthermore, even to the extent that actions reduce risk of sourcing from areas of forest conversion, they will not materially affect the risk of forest conversion occurring for the reasons above. Instead, FSC will drive developers to use much less environmentally desirable practices such as burning the wood on site or taking it to a landfill, which is a social loss.	Discuss with WG	Economic
С	CQ 14b	Yes absolutely. The above measures are actually stating don't buy forest conversions! Maybe as opposed to the measure above; there could be a limit on how many acres of forest conversions under 100 acres could be purchased?	Discuss with WG	Economic
	00,210		250000	233.10.1112
Х	CQ 14b	Unknown		Economic
Α	CQ 14b	The risk will be reduced. The extent of the reduction will depend on the intent; see comments above. Clarity is essential if credibility is desired.	n/a	Economic
A	CQ 140	uesiieu.	II/ a	LCOHOITIC
Α	CQ 14b	Yes, in the short-term and long-term.	n/a	Economic

			T	1
			Incorporate ideas in	
С	CQ 14b	Nothing can reduce the risk without spot-checking suppliers	mitigation discussion	Environmental
Α	CQ 14b	The above actions will reduce risk of sourcing material from areas that are not considered "acceptable sources" of conversion.	n/a	Economic
	CQ 145	The above actions will reduce risk of sourcing material from areas that are not considered acceptable sources of conversion.	iiy a	LCOHOTTIC
Χ	CQ 14b	Unknown		Economic
С	CQ 14b	No.	Discuss with WG	Economic
		Enviva specific comment	FSC is required to	
		Nothing useful can be accomplished until the authors of the NRA recognize the true drivers of conversion. Drive by most any mountain	consider conversion that	
		top removal site, right of way construction, development, etc. If the timber cannot be sold it is burned. This is economic proof timber	occurs, regardless of the	
		harvesting does not drive conversion. In the US, it will occur if the owners desire it, one way or another. Secondarily, an absolute ban on	driver, or CH's ability to	
R	CQ 14b	the use of wood from operations intended on clearing away forests for non-forest use will not stop the conversion. It is just a poor utilization of resource. The wood will just be piled and burned on site.	influence the driver. And discuss CM with WG.	Economic
N.	CQ 140	Glatfelter will need to re-evaluate its continued participation in the FSC Chain of Custody and Controlled Wood program if the risk of	uiscuss civi witti vvd.	LCOHOITIC
		sourcing conversion wood remains a specified risk in its wood supply area. A voluntary set of standards should not cause a certificate		
		holder's wood procurement costs to increase substantially in order to comply. This will also create a ripple effect down the supply chain		
		when land clearers and tree trimmers are required to find other outlets for their wood (burning, landfill, etc.) resulting in poor utilization		
R	CQ 14b	of this natural resource.	Discuss with WG	Economic
V	CQ 14b	Refer to answer above		Economic
^	CQ 14b	Refer to allswer above		ECOHOHIIC
		Some degree of forest conversion will always be taking place. I think the aim should not be to avoid materials from conversion – as this		
		might be nearly impossible for some certificate holders, particularly secondary manufacturers – but rather to identify ways by which the		
		rates of conversion can be held within acceptable levels. Over the long term, I do believe that policies can be put into place in the Pacific		
		Coast region that would maintain an acceptable level of conversion, and additional support from wood products manufacturers would		
	60.44	aid in this. As a stop-gap solution over the short-term, I believe further analysis of the nature of this issue is the only was to determine	Incorporate ideas in	
С	CQ 14b	appropriate mitigation actions – if any are needed at all.	mitigation discussion	Economic
х	CQ 14b	If forest product mills are unable to utilize this wood it will be piled and burned or landfilled.		Economic
^	CQ 140	In torest product mins are unable to utilize this wood it will be plied and buffled of fatigitiled.	l	LCOHOITIC

		They would reduce the risk if stipulated in contract after we understand and reconcile a better approximation of conversion we seek to		
		control. Believe deforestation, conversion lies outside of Columbia's ability to control at the scale FSC has traditionally operated at for	Incorporate ideas in	
C, R	CQ 14b	previous risk assessment activity.	mitigation discussion	Economic
,			Ŭ	
Χ	CQ 14b	No. See notes above.		Economic
Α	CQ 14b	Yes in the long-term. Not in the short-term.	n/a	Social
.,	00.44	If forest product mills are unable to utilize wood from conversion wood, it will be piled and burned or landfilled. This would not stop		
Х	CQ 14b	conversion and wood fiber would be wasted.  The risk will be reduced. The extent of the reduction will depend on the intent; see comments above. Clarity is essential if credibility is		Economic
^	CQ 14b	desired.	n/a	Economic
A	CQ 140	desired.	ii/ a	LCOHOITIC
		In the short term, the above actions would not reduce the risk of material coming from areas of forest conversion but would rather		
		encourage consumers to use more locally sourced wood and fiber products to support the value of forest ownership and management.		
		In the long term, the consistent revenue provided by these markets would indirectly spur the conservation of forestland and help slow	Incorporate ideas in	
С	CQ 14b		mitigation discussion	Economic
Α	CQ 14b	Control measures can reduce the risk of sourcing from conversion sources. Not likely to alleviate threats to forests from conversion.	n/a	Economic
		Conversion is not driven by our industry; we have no control over it and cannot stop it. Nothing has changed materially in the	FSC is required to	
		requirements under 40-005 V2-1 to V3-1. FSC-US in the NRA should recognize and affirm how this issue has been treated in the past.	consider conversion that	
		Forestland is very stable in the US. There are significant unintended adverse social, environmental, and economic consequences of not	occurs, regardless of the	
		accepting wood from conversion sources, for example, material is piled and burned or goes into landfills. This constitutes a de minimis amount of the total wood sourced and utilized by the forest products industry. Therefore, low risk for conversion is designated, and the	driver, or CH's ability to influence the driver. And	
R	CQ 14b	de minimis amount sourced from conversion is acceptable.	discuss CM with WG.	Economic
11	CQ 14b	de minimis amount sourced from conversion is acceptable.	discuss civi with wd.	LCOHOTTIC
1		Yes, this is a large-scale problem that requires building an active forest constituency and over time can have very positive effects by		
		joining existing momentum to maintain US forests. It is also a threat driven by factors outside the forest sector, and these control		
		measures will likely not stop this trend in the short term but can ideally inform and engage stakeholders for avoiding converted material		
С	CQ 14b	and mobilizing changes for longer term impact	Discuss with WG	Environmental

I	CQ 14c	Include more research scientists. A strong effort should be made to recruit and include, a significant amount of time prior to the meetings, local and regional university academics or other professional researchers (Census Bureau, USGS, etc.) to provide insight into the actual science of any given situation. The regional meetings will be more successful if science can be brought back to the forefront of the conversation and drives the decision-making process.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c	Controlled Wood stakeholders, state Forestry Associations, American Tree Farm System state committees, State Foresters, Forest Landowner Associations, Forestry Consultants, Logging Professionals/Associations, and private landowners will all be impacted by decisions from these meetings.  Recruiting significant representation from the small and medium-sized companies who will be implementing the NRA and Control Measures is essential for the success of this program. This will be challenging to recruit their input and participation due to their lack of resources and added complexity of these topics. However, consensus from this group of practitioners may be the single best way to be successful.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
ı	CQ 14c	The Standards Unit of FSC International should be represented. Ultimately this group is deciding the fate of FSC's program in the U.S. They should be present so that they can clearly understand the situation before making their decision.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c	USFS FIA personnel.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
1	CQ 14c	Urban planners; NGOs; conservation groups are a key; local and state government officials;	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c	Certificate holders, major TIMOs and REITs, scientific experts.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c		Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic

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			Identify these kinds of	
			participants, and attempt	
ļ.	CO 11-	Chata laval favortana	to engage in the regional	Fariana and a
<u>'</u>	CQ 14c	State level foresters	meeting process.	Environmental
			Identify these kinds of	
			participants, and attempt	
			to engage in the regional	
ı	CQ 14c	Non-certified small landowners. Government representatives from urban areas.	meeting process.	Economic
		·	<u>.</u>	
		Research scientists. Strong effort should be made to recruit and include, a significant amount of time prior to the meetings, local and		
		regional university academics or other professional researchers (Census Bureau, USGS, etc.) to provide insight into the actual science (or		
		lack of, if that is the case) of any given situation. We have a mild concern, solely based on the lack of specificity in specific areas of the	Identify these kinds of	
		draft document, that the CW NRA has devolved into a political horse trade (I'll give you low risk here, if you give me specified risk there)	participants, and attempt	
	00.44	rather than an actual review of all available research on the five indicators. If that is in fact the case, then the regional meetings will not	to engage in the regional	
I	CQ 14c	be successful unless science is brought back to the forefront of the conversation, and drives the decision making process.	meeting process.	Economic
		Research scientists. Strong effort should be made to recruit and include, a significant amount of time prior to the meetings, local and		
		regional university academics or other professional researchers (Census Bureau, USGS, etc.) to provide insight into the actual science (or		
		lack of, if that is the case) of any given situation. We have a mild concern, solely based on the lack of specificity in specific areas of the	Identify these kinds of	
		draft document, that the CW NRA has devolved into a political horse trade (I'll give you low risk here, if you give me specified risk there)	participants, and attempt	
		rather than an actual review of all available research on the five indicators. If that is in fact the case, then the regional meetings will not	to engage in the regional	
I	CQ 14c	be successful unless science is brought back to the forefront of the conversation, and drives the decision making process.	meeting process.	Economic
			Identify these kinds of	
			participants, and attempt	
		Forest landowner associations, university extension faculty/staff, need to continually stress they do not have to be an FSC certificate	to engage in the regional	
l	CQ 14c	holder to be impacted by the FSC CW RA	meeting process.	Economic
			Identify these kinds of	
			participants, and attempt	
		Participation by large forest products industry groups such as the WWPA as their constituent companies may benefit by understanding	to engage in the regional	
1	CQ 14c	the concept of CW and selling it to secondary manufacturers like ourselves	meeting process.	Economic
		, , , , , , , , , , , , , , , , , , , ,	5,	-
			Identify these kinds of	
			participants, and attempt	
		I would suggest the regional/local chambers of commerce in the areas that you deem high risk. Perhaps a look at the regional	to engage in the regional	
I	CQ 14c	development planning process will alleviate some of the concern that this is done without forethought.	meeting process.	Economic

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1	CQ 14c	Enviva specific comment State Forestry Commissions, State Forestry Associations, NCASI, National Association of State Foresters, Southern Group of State Foresters, The Nature Conservancy	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
1	CQ 14c	Stakeholders would include Controlled Wood certificate holders, landowners, members of SFI and American Tree Farm state committees and state foresters. Whether or not these groups have available resources to participate in the process puts them at a disadvantage.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
1	CQ 14c	Landowners, Certificate Holders (both current and former), professionals within the forestry industry (e.g. foresters, wood dealers, consultants), forest product facilities that are not certificate holders (considered secondary and tertiary suppliers) that are directly affected by these policies and designations.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
1	CQ 14c	Representatives from local municipal government or regional planning committees should also be invited/encouraged to attend, as they might be best positioned to speak towards the threats assessment for Category 4 in the Southeast and Pacific Coast regions Large landowners who might be FSC certificate holders, but not necessarily manufacturers, should definitely be invited/encouraged to attend.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c	Controlled Wood stakeholders, members of the state Sustainable Forest Initiative committees, members of the American Tree Farm System state committees, State foresters, and landowners are likely to be affected by decisions from these meetings.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
1	CQ 14c	Controlled Wood stakeholders, members of the state Sustainable Forest Initiative committees, members of the American Tree Farm System state committees, State foresters, and landowners are likely to be impacted by decisions from these meetings.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
		Population specialists, urban growth plannersseems to me concentrations in urban areas with a generally aging population are going to trend higher, leaving rural areas more and more empty, devoid of pressures to deforest, aside from food.  Climate change, food, entomologists with specialization in tree disease. Dendrologists specialized in effect of climate change on forested landscape. Climate change likely to be responsible for more forest cover loss over timedoes this mean we switch to green power to address the forest cover issue? Gets pretty disconnected in terms of cause and effect but arguably does have a basis in	Identify these kinds of participants, and attempt to engage in the regional	
1	CQ 14c	Yes (repeated from Cat. 3). Recruiting significant representation from the small and mediumsized companies who will be implementing	meeting process.  Identify these kinds of participants, and attempt	Economic
I	CQ 14c	the NRA and CM's is essential for the success of this program. This will be challenging to achieve and maintain, but consensus from this group of practitioners may be the single best way to be successful.	to engage in the regional meeting process.	Economic

	1		1	<del>                                     </del>
I	CQ 14c	Land use planners from local government to explain the process of zone conversion, temporal land use changes, and demonstrate types of evidence that are readily accessible to organizations and therefore certification bodies to demonstrate conformance.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
I	CQ 14c	Controlled Wood stakeholders, members of the state Sustainable Forest Initiative committees, State forestry and landowner associations, members of the American Tree Farm System state committees, State foresters, and landowners are likely to be impacted by decisions from these meetings.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
ı	CQ 14c	The Standards Unit of FSC International should be represented. Ultimately this group is deciding the fate of FSC's program in the U.S. They should be present so that they can clearly understand the situation before making their decision.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	Economic
	CQ 14c	Dr. Bob Kellison - bobkellison6@gmail.com Dr. Mike Aust - waust@vt.edu (See details in Q. 11 above)	Contact these individuals	Economic
	CQ 14c	Obviously, all CW certificate holders, which is mainly made up of wood products manufacturers that source virgin wood directly.  Additionally, from economic stakeholders, there should be representation from forestland owners, such as American Forest Foundation	Identify these kinds of participants, and attempt to engage in the regional meeting process.	
	CQ 14c	Potentially those involved in the Keeping Forests As Forests initiative. Depends on region.	Identify these kinds of participants, and attempt to engage in the regional meeting process.	
A	CQ 140	B. Yes, with minor adjustments	n/a	Economic
R	-	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic

R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
Α	CQ 15a	Yes, with additional supporting research	n/a	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
A	CQ 15a	Yes, with minor adjustments	n/a	Environmental
	04 204	, es, man mile dejactificate	1,9,5	
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
Α	CQ 15a	Yes, with additional supporting research	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
А	CQ 15a	Yes, with additional supporting research	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
A,R	CQ 15a	Yes, with minor adjustments No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic

R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
Α	CQ 15a	Yes, with minor adjustments	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
А	CQ 15a	Yes, with minor adjustments	n/a	Economic
A	CQ 15a	Yes, with minor adjustments	n/a	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Environmental
A	CQ 15a	Yes, with adjustments	n/a	Social
A	CQ 13a	res, with adjustments	liy d	Jocial
R	CQ 15a	No, changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Environmental
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic
R	CQ 15a	No, major changes are needed	Discuss with WG	Economic

Α	CQ 15a	Yes, with minor adjustments	n/a	Environmental
		While we recognize that putting together this research was a heavy lift for those involved, we believe there is still work to be done to		
		narrow in on the areas of specified risk with more specific research. This document will ultimately decide whether manufacturers of		
		wood products can continue to be part of the CW program, and making sure this NRA is complete with the most up-to-date, complete,		
R	CQ 15b	and defendable science is of utmost importance.	Discuss with WG	Economic
		Old growth risk needs significant improvement. Including all public forest lands that are not protected is not an acceptable classification. Conversion risk should not be set at statewide levels. It isn't believable.  High conversion areas were excluded and low risk areas were included.		
R	CQ 15b		Discuss with WG	Economic
х	CQ 15b	See comments above		Economic
		They are noted above:  1) In the interim between adoption of the NRA and the collation of regional meeting data (for additional control measures) what can		
		companies do still believe they can safely source in areas of specified risk in addition to the prescribed measures?		
		2) I would strongly suggest an alternative 3rd control measure to those prescribed in the regional meetings that provides equal or		
		greater protection than those other measures and is approved by either the CB or FSC-US. Providing additional flexibility in the early		
		stages will provide companies that source CW a better level of confidence that they can maintain their supply chain (this may also		
		provide opportunities to see creative methods not thought of in the group meeting).		
		3) Probably need more work to refine the conversion specified risk area. It seems a bit ridiculous to lock down the entire Pacific Coast as		
		specified risk. There must be some data to better assess this.  4) If the control measures sharing of information applies to providing that information to log buyers and mills sourcing controlled		
		material I'm ok with it. I don't think it adds anything to log sellers – who are typically going to find the most optimal method for selling		
		their logs or managing their property in the way they want to. I would suggest limiting the information/education campaign to log		
R, C	CQ 15b	buyers and mills selling lumber or logs – this is where it will make the most impact.	Discuss with WG	Economic
R	CQ 15b	Further refinement is needed especially broadening the research scope beyond the reliance on NatureServe.	Discuss with WG	Economic
		Risk designations for HCV 4 should be changed to reflect a finer-grained assessment of population growth.		
		Risk designations for Cove Hardwoods should be reassessed.		
R	CQ 15b	Risk designations for Late-seral Bottomland Hardwoods should be reassessed.	Discuss with WG	Economic
R	CQ 15b	Risk designations would have a firmer scientific basis if comments and recommendations were adopted as presented here.	Discuss with WG	Economic

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R X	CQ 15b CQ 15b	We recognize and appreciate the amount of effort that many volunteers devoted to creating the 2nd draft NRA. The work completed is a good base from which to build a full-fledged research document, one that is able to support the conclusions contained within the NRA. For this to successfully happen for the NRA, a critical resource for the entire U.S., there really needs to be a significantly deeper exploration of the existing research in all of the categories noted.  NCASI suggests that risk designations would have a firmer scientific basis if comments and recommendations herein were adopted.	Discuss with WG	Economic Economic
х	CQ 15b	Described in detail in the sections above		Environmental
R	CQ 15b	Conversion should not be identified at a state level. The states with specified risk have many areas that are not at risk for conversion, and it seems unreasonable to implement mitigation in areas where there is clearly no threat.  Species that have not been seen in decades should not be included as a risk needing mitigation. Consider adding a timeframe that species must have a confirmed sighting in order to be included as a specified risk.	Discuss with WG	Economic
R	CQ 15b	We fully recognize and thank the volunteers who undoubtedly have put many hours into creating the 2nd draft NRA. The work that has been done is an excellent base from which to build a full-fledged research document that supports the conclusions within. However, the current level of included research simply does not do that. For such a key document, one that will have far reaching and long term consequences for the entire US certification industry, there really needs to be a significantly deeper dive into the research that exists out there.	Discuss with WG	Economic
		We believe the FSC Pacific Coast Region should be broken into multiple smaller ecoregions. Once that happens, the risk designations proposed in the Draft 2-0 Controlled Wood National Risk Assessment should be assigned to those ecoregions as appropriate.  We do not agree that "lack of managing younger forests with a goal of creating old growth" represents a risk to existing old growth forests.  We also do not agree with the assertions that all wood sourced from public lands in the Pacific Northwest represents a specified risk to old growth forests and that no wood from private lands in the pacific northwest represents a specified risk to old growth forests. Instead		
R	CQ 15b	of using public ownership as a threshold, a more accurate indicator for assessing risk across the landscape is whether the lands in question are managed using an HCP, SHA, or other legally binding agreement that supports the protection, enhancement, and/or development of old growth forests.	Discuss with WG	Economic

		We fully recognize and thank the volunteers who undoubtedly have put many hours into creating the 2nd draft NRA. The work that has been done is an excellent base from which to build a full-fledged research document that supports the conclusions within. However, the current level of included research simply does not do that. For such a key document, one that will have far reaching and long term consequences for the entire US certification industry, there really needs to be a significantly deeper dive into the research that exists out		
R	CQ 15b	there.	Discuss with WG	Economic
R	CQ 15b	Question if urbanization is the main driver of deforestation and most of that material is not entering the forest industry (disposed on site), why high risk? My understanding of the material is disposed on site is completely anecdotal and I have no studies/evidence to back it up. No issues with category 1, 2, or 5. In general, minor problems with 3 or 4.	Discuss with WG	Economic
		The risk designations are at too large of areas to be effectivethey need to be moved down to the county level. The Category 4 Conversion use of a proxy of urbanization to declare the entire West Coast Region as specific risk is dangerous and wholly unfair. It is not science based but merely a proxy methodology stating that urbanization is causing conversion. The cause and effect is not remotely that simple for conversion. Additionally I believe it will be nearly impossible to mitigate a risk as vague as urbanization causing		
K	CQ 15b	conversion.	Discuss with WG	Economic
		The areas for HCVs need to be definitively and clearly mapped. As they currently stand, they are not usable. Species lists should be limited to G1 and G2 speices with already accepted conservation measures.		
R	CQ 15b	Conversion should be limited if at all.	Discuss with WG	Economic
x	CQ 15b	Enviva supported NCASI comment NCASI suggests that risk designations would have a firmer scientific basis if comments and recommendations herein were adopted.		Economic
	50, 155	TO ST SUBBOSS that his designations would have a finite scientific basis it comments and recommendations neterif were adopted.		Economic
R	CQ 15b	Glatfelter recommends accepting the comments and recommendations provided by NCASI.	Discuss with WG	Economic
	CQ 15b	Risk designations would have a firmer scientific basis if comments and recommendations herein were adopted.		Economic

		As mentioned in the above sections, the processes, data, and rationale used to make risk designations have systemic issues. In particular		T
		FSC US needs to re-evaluate the risk designations as it pertains to HCV1: Species Diversity and HCV3: Rare Ecosystems. Please refer to		
		our responses to questions 4 and 6 for detailed explanations and suggestions of what specific changes that we feel are needed.		
		Including but not limited to:		
		- Re-evaluating methods for delineating CBAs		
		- Incorporation of additional experts from stakeholders and organizations that have been disregarded.		
		- Re-evaluation of BMP implementation into various risk designations based on the high implementation rates and the effectiveness of		
		BMPs at protecting water quality.	Look for suggestions for	
		- Removal of Specified Risk to Mississippi Alluvial region based on designation of Ivory Billed Woodpecker as a Priority Species	additional stakeholders	
		- Re-evaluation of Mesophytic Cove Sites, Late Successional Bottomland Hardwoods, and Native Longleaf Pine Ecosystems based on	and organizations and	
R	CQ 15b	information provided.	contact them.	Economic
R	CQ 15b	I believe there needs to be further review of the specified risks associated with HCV 3, and Category 4	Discuss with WG	Economic
		AF&PA recommends accepting the recommendations of NCASI>		
	CQ 15b	Conversion should be designated as low risk, and FSC-US should reconsider designations made in HCV1 and HCV3 based on comments from NCASI.	Discuss with WG	F
R	CQ 150	ITOITI NCASI.	Discuss with Wd	Economic
R	CQ 15b	AFRC recommends accepting the recommendations of NCASI.		Economic
		1. If the NRA is going to use population growth and urbanization as the criteria to determine risk of conversion, this risk should be		
		identified on a county level rather than a wide spread regional level. This would hold true for both the Pacific Coast and the Southeast		
		Coast.		
		2. The NRA presents no hard data demonstrating that Mesophytic Cove sites are at real risk of conversion or invasive species. In fact,	Consider finer scale	
		the NRA has labeled the Appalachian region as low risk for conversion so it seems contradictory that these coves that are located in the	specified risk; review	
R	CQ 15b	same region would be at risk.	Mesophyic cove evidence.	Economic
			Consider additional	
			criteria that would filter	
			out species not	
			documented in 20+ years,	
		The ivory Billed Woodpecker being listed does not make sense as communicating to suppliers on this will not have an outcome.	discuss LSBH CM with	
R, C	CQ 15b	Communications on bottomland hardwoods should be sufficient.	WG	Economic
		Category 1, 2, & 5: appropriate and not controversial.		
		Category 3: Conclusion for HCV3 in the west is ill-conceived and unnecessary.		
	00.451	Category 4: Conclusion is reasonable and well documented. Consequence is poorly aligned with FSC objectives and unlikely to result in	Diameter in the trace	<b>.</b>
A,R	CQ 15b	positive results.	Discuss with WG	Economic

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A,R, I	CQ 15b	We support the risk designations presented. However, justifications for low risk for Category 2 Freedom of Association & Collective Bargaining (pp.72) are week. Being part of ILO doesn't mean that there is low risk. The ITUC 2017 report highlights systemic violation of rights.	Consider ITUC report, and then review/revise as appropriate.	Economic
R	CQ 15b	Risk designations for HCV at the coarse/regional level may not take into enough consideration the local or state level legislation that are currently providing protection, particularly in the western regions. The impact of these regulations could potentially change the risk designation to low or otherwise for specific species.	Identify and consider state and local legislation when possible	Economic
R	CQ 15b	major changes are still needed within Category 3, per the above	Discuss with WG	Environmental
X, R	CQ 15b	Thank you for all the work that has gone into the CW NRA.  I know it has been considerable.  I believe a few adjustments are critical. If any room exists for modification to these elements:  The threshold for conversation needs to be .05.  As a system we have, no impact on non-forest caused issued. The NRA and mitigation steps need to look at only forest caused issued.  Old growth should not be flagged as specified risk in WA, OR, and CA. Of all three of these, Oregon specifically has seen increases in old growth conditions based on the USFS research station northwest forest plan monitoring.	Threshold is out of scope defined in the normative procedure. Required to consider all conversion, regardless of driver. Revisit OG risk designation.	Social
R	CQ 15b	Areas of specified risk may be more appropriately assessed at smaller scale. Example – the entire state of PA is identified as a Mesophytic Cove Site on the HCV #3 map, while only small, select areas of the state fit the formal definition.	Discuss with WG	Economic
R, I	CQ 15b	Below is a summary of significant areas of change.  • Accept NCASI statistical analysis of conversion rates and change category 4 conversions to low risk  • Change west coast Category 3 HCV-1 to low risk due to state forest practice acts in effect	Discuss conversion with WG. Look into Forest Practice Acts & HCV 1 implications	Economic
R, X	CQ 15b	HCVFs are either too narrowly defined (linked to individual species), or too vague (open ended definition of Old Growth).	Move to finer scale risk desigantions when possible; review/revise rationale for risk designations; note that the scope of the NRA was aligned with the FM standard so that the existing HCV framework could be used	Economic
.,, .,	52 250			
R	CQ 15b	As described above, we feel it is important to consider State and Federal RTE species, particularly in the West where numerous forest-dependent species are at risk, and where Pacific salmonids could be used as an indicator species.	Discuss with WG	Environmental

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		Bick designations for HOVA should be changed to reflect a finer grained assessment of population growth		
		Risk designations for HCV 4 should be changed to reflect a finer-grained assessment of population growth.  Risk designations for Cove Hardwoods should be reassessed.		
D.	CO 15h	· · · · · · · · · · · · · · · · · · ·	Discuss with MC	Faanamia
R	CQ 15b	Risk designations for Late-seral Bottomland Hardwoods should be reassessed.	Discuss with WG	Economic
V	CO 451	Please see our detailed comments. We believe that there does need to be some material adjustment to several of the proposed HCVs.		F
Х	CQ 15b	As they stand now it may be difficult to develop mitigation measures (i.e. if the risks are perceived rather than real).		Economic
			Revisit CBA with previous	
		The standardized NRA with supporting tools is a valuable approach to certificate holders and the credibility of the standard.	comments and provide	
		Improvements and refinements through time will continue to improve the utility of the NRA. Changes that are critical before	better clarity on	
<u>_</u>	CO 15h		identificaiton of CBA.	Faanamia
R	CQ 15b	implementation are those related HCVs/CBAs – definition of the HCV and validation of threats from forestry.	identification of CBA.	Economic
		See various comments above.	Discuss conversion with	
		1. Conversion should be designated low risk for entire US.	WG. Review previous	
R	CQ 15b	2. HCV 1 and HCV 3 risk designations and area delineations should be re-evaluated per comments above.	comments.	Economic
.,	50, 250	2 The 2 and 100 o had decay, action and a care action action of the action action and action	Clarify the experts in	200
			regions who were	
			consulted on roadless.	
			Assess species with	
			weaker	
		The roadless areas designation requires thorough consultation with relevant experts in every region and those experts included in the	rationale/evidence and	
		public NRA 'experts consulted' list. The HCV individual species designations, because dependent on a data source with its limitations,	do additional	
R	CQ 15b	should be considered in conjunction with expert opinion.	consultation as needed.	Environmental
N.	CQ 130	should be considered in conjunction with expert opinion.	consultation as needed.	Liiviioiiiieiitai
Α	CQ 16a	B. Yes, with minor adjustments	n/a	Economic
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
			,	
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
A	CQ 16a	Yes, with minor adjustments	n/a	Economic
	CQ 10a	res, with thine adjustificities	iiy u	Leonomic
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
	CQ 16a	No. major changes are needed	Discuss with WG	Economic
C	ICU 10a	No, major changes are needed	DISCUSS WILLI WG	LCOHOITIC

Α	CQ 16a	Yes, with caveats	n/a	Economic
Α	CQ 16a	Yes, with minor adjustments	n/a	Environmental
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
Α	CQ 16a	Yes, with caveats	n/a	Economic
Α	CQ 16a	Yes, completely	n/a	Economic
			,	
Α	CQ 16a	Yes, with caveats	n/a	Economic
A	CQ 16a	Yes, with minor adjustments	n/a	Economic
	CQ 10a	res, with fillion adjustments	11/ 0	Leonomic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic

А	CQ 16a	Yes, with minor adjustments	n/a	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
	00, 100	no, major oneriges are necessary	J.555555	200.101.1110
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
А	CQ 16a	Yes, with minor adjustments	n/a	Economic
А	CQ 16a	Yes, with minor adjustments	n/a	Economic
C	CQ 16a	No, major changes are needed	Discuss with WG	Economic
C	CQ 16a	No, major changes are needed	Discuss with WG	Environmental
С	CQ 16a	No, major changes are needed	Discuss with WG	Social
С	CQ 16a	No, changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Economic
С	CQ 16a	No, major changes are needed	Discuss with WG	Environmental
Δ	CQ 16a	Yes, with minor adjustments	n/a	Economic
A	CQ 16a	Yes, with minor adjustments	n/a	Economic
Α	CQ 16a	Yes, with minor adjustments	n/a	Economic
Α	CQ 16a	Yes, with minor adjustments	n/a	Environmental
		When reading the control measures, we are not able to determine what the result will be of implementation because of what we read		
С	CQ 16b	as vague language.	Discuss with WG	Economic
6	60.16		B:	Farmer :
L	CQ 16b	Avoidance language should be removed.	Discuss with WG	Economic

Х	CQ 16b	See comments above		Economic
С	CQ 16b	They are noted above:  1) In the interim between adoption of the NRA and the collation of regional meeting data (for additional control measures) what can companies do still believe they can safely source in areas of specified risk in addition to the prescribed measures?  2) I would strongly suggest an alternative 3rd control measure to those prescribed in the regional meetings that provides equal or greater protection than those other measures and is approved by either the CB or FSC-US. Providing additional flexibility in the early stages will provide companies that source CW a better level of confidence that they can maintain their supply chain (this may also provide opportunities to see creative methods not thought of in the group meeting).	1) N/A - interim period no longer will occur; 2) discuss an alternative CM with the WG	Economic
С	CQ 16b	Regional Meetings will suffer the same fate. Chamber disputes will devolve into an immediate fallback to the contingency. Better to	Provide for engagement on mitigation opions in advance of meetings; note that for the proposed process to work, it is not poosible to have more than one meeting for a region	Economic
С	CQ 16b	The 3-step structure is reasonable.  The regional stakeholder meetings should be structured for success, based on an understanding by the participants of the adaptive management approach: develop flexible mitigation options, test them, evaluate, review and adjust in 3 to 5 years.	Communicate that the NRA and mitigation options will be reivewed and considered periodically in light of new information	Economic
х	CQ 16b	See comments submitted in question 6.		Economic
A,C	CQ 16b	We support the control measures with the caveat that the control measures, as described, are imprecise to the point that there is currently no estimating what may come out of their implementation.	Discuss with WG	Economic
7,0	CQ 100	Currently no estimating what may come out or their implementation.	Discuss With WO	LCOHOITIC

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х	CQ 16b	Described in detail in the sections above		Environmental
		The control measures are likely supportable, but without knowing the extent of the mitigation measures, I do not have complete		
Α, Χ	CQ 16b	information to answer.		Economic
7,4,7	CQ 100	We support the control measures with the caveat that the control measures as described are so imprecise an instrument that there is		Leconomic
		simply no estimating what may come out of their implementation. They very much appear to be a "kick the can down the road"		
		response to approaching deadlines, in the hope that something will end up working out at the end. As long as everyone is cognizant of		
A,C	CQ 16b	that going in, then the process itself is satisfactory.	Discuss with WG	Economic
A,C	CQ 100	We support the control measures with the caveat that the control measures as described are so imprecise an instrument that there is	DISCUSS WITH WG	LCOHOITIC
		simply no estimating what may come out of their implementation. They very much appear to be a "kick the can down the road"		
	CO 4.61-	response to approaching deadlines, in the hope that something will end up working out at the end. As long as everyone is cognizant of	Diameter in MC	F
A,C	CQ 16b	that going in, then the process itself is satisfactory.	Discuss with WG	Economic
			Desirable OC	
			Revisit the OG	
			assessment;	
			communicate	
			expectations of	
		Further discussion and details for old-growth on public lands in the west; open mind/consensus building required for regional meeting	participations for	
R,C	CQ 16b	not just the contingency group	regional meetings	Economic
		I cannot support these control measures. As a certificate holder I need to know whether I'm going to be responsible for the		
		development of educational materials. Creating educational material on our own would be highly costly and not likely to have any		
		impact on improving conversation values. I would want to see more mitigation options, specifically options that are not going to be		
С	CQ 16b	costly or excessively time consuming to implement.	Discuss with WG	Economic
		Statements of avoidance cannot be required of companies. My only concern with the rest of the control measure is the possibility for a		
С	CQ 16b	constant ratcheting up of requirements rendering the system unusable.	Discuss with WG	Economic
		Enviva specific comment		
		Not with the current version of the NRA. Given the current condition of the NRA draft the process may be cumbersome. Once some		
		resolution is met to reduce the size of some of the CBA's, address various errors in fact and incorrect interpretation of certain	Discuss with WG and	
R	CQ 16b	definitions.	review assessments	Economic
С	CQ 16b	Glatfelter recommends accepting the comments and recommendations provided by NCASI.	Discuss with WG	Economic
1			Do not mandate	
		Mandating attendance at or adherence to FSC Controlled Wood Regional Meetings is not appropriate. Risks can be controlled by a	attendance at meetings,	
		variety of means once risks are identified. Requiring participation in one type of control measure is exclusive whereas adoption of the	provide an alternative;	
lc	CQ 16b	need to implement control measures would be enhanced if an inclusive approach were taken	discuss CM with WG	Economic

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C	CQ 16b	Details of implementation need to be clarified.	Discuss with WG	Economic
<u> </u>	CQ 100	Details of implementation need to be claimed.	Discuss with WG	LCOHOITIC
			N/A - associated	
		Control measures are unactionable at present. Certificate holders need to know prior to adoption of the NRA, whether or not they will be	,	
		responsible for development of educational materials. A fourth control measure that is immediately actionable, and the option to	educational materials	
		choose a subset of actions, would be desirable. With so much being left up to the outcomes of the Regional Meetings, certificate	removed; Discuss	
C	CQ 16b	holders need to know that they have options.	alternate CM with WG	Economic
	CQ 100	noiders need to know that they have options.	atternate civi with we	Leonomic
С	CQ 16b	AF&PA recommends accepting the recommendations of NCASI.	Discuss with WG	Economic
С	CQ 16b	AFRC recommends accepting the recommendations of NCASI.	Discuss with WG	Economic
			Lucana de Angeles de Caracia de C	
			Improve the Mesophytic	
			cove site definition;	
_		Present definitions are too broad as indicated in Appalachia with respect to Mesophytic Cove site conversion, need to isolate to	discuss elevation	
С	CQ 16b	mountain counties where these sites occur.	refinement with WG	Economic
x	CQ 16b	See notes regarding HCV3 in questions 6 & 15 above.		Economic
		Regarding CM 3.b.i. how will CBs assess whether Certificate Holder (CH) representatives adequately participated in learning sessions		
		and collaborative dialogues? Is attendance an adequate measure of participation e.g. sign-in sheet as evidence? Regarding CM 3.b.ii.		
		similar to above, how will CBs confirm CH understanding? Will CBs need to effectively develop a quiz? Regarding CM 3.c. is		
		implementation of any one mitigation action adequate to demonstrate conformance? One per designated risk? A guidance document		
		for CBs should be created to aid in consistent evaluation of control measures.		
		Is it possible that CHs could be incentivized to choose the one mitigation action that's less onerous than others, and then become locked		
		in a disagreement with their CB over whether they chose the most effective measure? Or is 'most effective' even an appropriate filter,		
		as opposed to adequately effective? Will some CHs be more successful than others at presenting their rationale for adopting a less		
		onerous measure than other CHs? Seems like opportunity for ambiguity and inconsistent implementation/interpretation between CHs		
		and CBs.		
		Ultimately, it's difficult to envision how this will work without also seeing the mitigation actions.		
		CM 3.b should be removed. The ratio of level of effort versus results of this CM is drastic. It will be expensive in resources for FSC US		
		· ·	Work on auditability of	
С	CQ 16b	heavy on FSC US resources.	the CM with the WG	Economic
Х	CQ 16b	No comment until regional meetings are underway.		Economic
Χ	CQ 16b	significant changes are needed, per the above		Environmental
			Additional assessment	
			for NWFP protections	
		HCV 3 should be low risk in OR, WA, and CA. Research done by USFS based on the northwest forest plan shows improvement and	and threats from fire vs	
R	CQ 16b	increased recruitment of old trees. Additionally, the majority of attrition found in the studies is caused from fire disturbance not harvest.	forest management	Social

R,C	CQ 16b	It is unclear whether the Regional Meeting approach will be a successful tool for the adoption of approved risk mitigation options. Proposed control measures call for CH's to share educational materials with procurement and suppliers. For this to be effective, FSC will need to be very proactive in terms of developing and supplying educational materials and outreach tools for CH's. A great deal of confusion has arisen in the area of HCVF identification over the last 2 years in anticipation of the US CW NRA release. There are numerous maps in circulation at this time, incorrectly identifying HCVF areas based on the "example" maps that are referenced in the current version of the FSC CW standard. And using the a regional scale rather than site specific to identify areas of specified risk on these maps (examples and the proposed final NRA) has lead to the belief that entire areas of states or regions should be considered "no buy zones", or overarching areas to avoid.	Discuss with WG	Economic
R	CQ 16b	Change west coast Category 3 HCV-1 to low risk due to state forest practice acts in effect	Discuss with WG Provide additional	Economic
С	CQ 16b	There needs to be clarity on what the end Control Measures are going to be, and transparency on how that process will work. At present, the details are buried and there is little clarity on how the process is envisioned to work.	information about the regional meeting process in advance of the meetings	Economic
Х	CQ 16b	Same comment as above		Environmental
	CQ 16b	The 3-step structure is reasonable.  The regional stakeholder meetings should be structured for success, based on an understanding by the participants of the adaptive management approach: develop flexible mitigation options, test them, evaluate, review and adjust in 3 to 5 years.	Contract with a professional facilitator to ensure effective decision-	<b>F</b>
A,C	CQ 100	The Control Measures seem appropriate as long as scientifically based mitigation measures are developed and are realistic to implement. Participation of a diverse stakeholder group will not necessarily result in mitigation measures which are scientifically sound or which are reasonably implemented. While FSC's NRA and associated mitigation measures may be a genuine effort to effect conservation on the landscape, there is danger in being too prescriptive. FSC should not underestimate the ability of certificate holders to develop their own site/supply base specific mitigation measures. Professional biologists and foresters can and do develop very effective conservation measures, often in concert with state and federal biologists. This direct interaction and collaboration should not be undervalued. Although it is very likely that effective and reasonable mitigation measures will be developed in the Regional Controlled Wood Meetings, FSC should be sensitive and receptive to the capabilities of certificate holders to develop their own	making	Economic
С	CQ 16b	mitigation measures (currently still allowable in the FSC CW Standard).	Discuss with WG	Economic
A	CQ 16b	We support them tentatively, as there is still a significant unknown relative to the proposed regional meetings and whether the resulting mitigation measures are realistic, meaningful, and practical.	n/a	Economic
Х	CQ 16b	B, see Question 15.		Environmental
	CQ 17a	B. Yes, with minor adjustments	n/a	Economic
A	CQ 17a	Yes, completely	n/a	Economic
С	CQ 17a	No, major changes are needed	Discuss with WG	Economic
А	CQ 17a	Yes, with minor adjustments	n/a	Economic

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Α	CQ 17a	Yes, with minor adjustments	n/a	Economic
С	CQ 17a	No, major changes are needed	Discuss with WG	Economic
С	CQ 17a	No, major changes are needed	Discuss with WG	Economic
Α	CQ 17a	Yes, with caveats	n/a	Economic
А	CQ 17a	Yes, with minor adjustments	n/a	Environmental
	00,270	res, with minor dajustificities	11,4	Livironinientai
Α	CQ 17a	Yes, with minor adjustments	n/a	Economic
Α	CQ 17a	Yes, with caveats	n/a	Economic
			,	
_	CQ 17a	Yes, completely	n/a	Economic
Α	CQ 17a	res, completely	II/ d	ECOHOITIC
Α	CQ 17a	Yes, with caveats	n/a	Economic
Α	CQ 17a	Yes, with minor adjustments	n/a	Economic
С	CQ 17a	No, major changes are needed	Discuss with WG	Economic

CQ 17a	No, major changes are needed	Discuss with WG	Economic
CO 172	No, major changes are needed	Discuss with WG	Economic
CQ 17a	No, major changes are needed	Discuss With WG	ECOHOITIC
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a	No, major changes are needed	Discuss with WG	Economic
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CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a	Yes, with minor adjustments	Discuss with WG	Economic
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CO 17a		Discuss with WG	Social
CQ 17a	res, with major adjustments	Discuss With WG	Jocial
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a		Discuss with WG	Economic
CQ 17a	Yes, with minor adjustments	n/a	Economic
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17a	Yes, completely		Environmental
CQ 17a	No, major changes are needed	Discuss with WG	Economic
CQ 17b	Same comment as above. We are not sure what the result will be of implementation because the language seems imprecise and vague.	Discuss with WG	Economic
			Economic
	CQ 17a  CQ 17a	CQ 17a No, major changes are needed  CQ 17a Ves, with minor adjustments  CQ 17a Ves, with major adjustments  CQ 17a No, major changes are needed  CQ 17a Ves, with major adjustments  CQ 17a No, major changes are needed  CQ 17a Ves, with minor adjustments  CQ 17a No, major changes are needed  CQ 17a Ses, completely  CQ 17a No, major changes are needed  CQ 17a Ses, completely  CQ 17a No, major changes are needed  CQ 17b Same comment as above. We are not sure what the result will be of implementation because the language seems imprecise and vague.	CQ 17a No, major changes are needed Discuss with WG  CQ 17b Same comment as above. We are not sure what the result will be of implementation because the language seems imprecise and vague.

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С	CQ 17b	1) In the interim between adoption of the NRA and the collation of regional meeting data (for additional control measures) what can companies do still believe they can safely source in areas of specified risk in addition to the prescribed measures?  2) I would strongly suggest an alternative 3rd control measure to those prescribed in the regional meetings that provides equal or greater protection than those other measures and is approved by either the CB or FSC-US. Providing additional flexibility in the early stages will provide companies that source CW a better level of confidence that they can maintain their supply chain (this may also provide opportunities to see creative methods not thought of in the group meeting).  3) Probably need more work to refine the conversion specified risk area. It seems a bit ridiculous to lock down the entire Pacific Coast as specified risk. There must be some data to better assess this.  4) If the control measures sharing of information applies to providing that information to log buyers and mills sourcing controlled material I'm ok with it. I don't think it adds anything to log sellers — who are typically going to find the most optimal method for selling their logs or managing their property in the way they want to. I would suggest limiting the information/education campaign to log buyers and mills selling lumber or logs — this is where it will make the most impact.	N/A - the interim period no longer exists, as the NRA will be approved at about the same time as the mitigation options are available; Discuss an alternative CM, specified risk area and ed materials CM with the WG	Economic
Χ	CQ 17b	See above		Economic
		Clarity of purpose is needed before I can accept the approach to control measures. Can Conversion Wood be openly allowed into the system? If not, per the current official stated policy, do you want to continue the current system of telling suppliers that it isn't allowed and then tolerating a system where anyone who cares to find out can know that it is in fact in the supply chain? I call this "Tell, but don't know."  CM 4.a: The statement regarding the 100 acres works well if you want to have a system of "Tell, but don't know". As written, if I was asked the obvious follow up question: "Sir, can we allow conversion wood from less than 100-acre projects?" I'd have to answer: "Yes, provided you can demonstrate plausible ignorance." Clearly I do not like this approach. I prefer allowing conversion wood from planned development in all cases. I could understand if conversion of forest to farmland was not allowed, but this raises issues of how to know. CM 4.b: The meetings are pointless without clarity regarding purpose.		
С	CQ 17b	CM 4.c: Mitigation measures can't be developed without clarity regarding purpose.	Discuss with WG	Economic
	60 47'	See comments submitted in question 7.  The required statement in CM 4a is illogical and unnecessary. The premise that big clearings cause more forest loss than small clearings is unsupported and suspicious. Circulating such unsupported declaratory statements is likely to undermine, rather than support, more		
C	CQ 17b	broad based education efforts.	Discuss with WG	Economic
A,C	CQ 17b	We support the control measures with the caveat that the control measures, as described, are imprecise to the point that there is currently no estimating what may come out of their implementation.	Discuss with WG	Economic

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Х	CQ 17b	Described in detail in the sections above		Environmental
х	CQ 17b	The control measures are likely supportable, but without knowing the extent of the mitigation measures, I do not have complete information to	to answer.	Economic
		We support the control measures with the caveat that the control measures as described are so imprecise an instrument that there is		
		simply no estimating what may come out of their implementation. They very much appear to be a "kick the can down the road"		
		response to approaching deadlines, in the hope that something will end up working out at the end. As long as everyone is cognizant of		
A,C	CQ 17b	that going in, then the process itself is satisfactory.	Discuss with WG	Economic
		We support the control measures with the caveat that the control measures as described are so imprecise an instrument that there is		
		simply no estimating what may come out of their implementation. They very much appear to be a "kick the can down the road"		
		response to approaching deadlines, in the hope that something will end up working out at the end. As long as everyone is cognizant of		
A,C	CQ 17b		Discuss with WG	Economic
,				
		Conversion analysis changed to census tract level and not state; open mind/consensus building required for regional meeting not just the		
С	CQ 17b		Discuss with WG	Economic
		I honestly don't see any control measures that an individual certificate holder or even the FSC could create that would alter the course of		
x	CQ 17b	conversion in any meaningful way.		Economic
		Statements of avoidance cannot be required of companies. My only concern with the rest of the control measure is the possibility for a		
C	CQ 17b	constant ratcheting up of requirements rendering the system unusable.	Discuss with WG	Economic
	CQ 175	constant ratelieting up or requirements remaching the system anasasie.	Discuss With WG	Leonomie
C	CQ 17b	Glatfelter recommends accepting the comments and recommendations provided by NCASI.	Discuss with WG	Economic
	52,273			200
		Mandating attendance at or adherence to FSC Controlled Wood Regional Meetings is not appropriate. Risks can be controlled by a		
		variety of means once risks are identified. Requiring participation in one type of control measure is exclusive whereas adoption of the		
C	CQ 17b		Discuss with WG	Economic
	[00 1/0	need to imperient control measures would be crimined in an inclusive approach were taken	PISCUSS WILLI WU	LCOHOITIC

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		We recommend that FSC US re-evaluate the ways in which it draws conclusions from the cited materials (FIA and NRI) that it uses as evidence for Specified Risk within Category 4. We suggest that FSC accept the scientifically-sound interpretation of "no significant difference" from the referenced FIA and NRI databases for what it is: an indication that there is no evidence of risk of conversion. Also, FSC should re-evaluate the conclusions that have been drawn from the literature review. As mentioned above, many of these articles are based on older data and modeled projections of future scenarios. We suggest that it is not appropriate to determine current conversion risk primarily on the basis of data or reports that are more than a decade old, or involve modeled projections of possible future scenarios.		
R	CQ 17b	Additionally, Before adopting the use of population or urbanization growth as a proxy for forest conversion, it is necessary to establish a quantitative connection between such growth and forest conversion. This has not been documented in the NRA. While we maintain that there is no need for a proxy for conversion (as it is reliably measured by FIA and NRI), there must be clarity, transparency, consistency, and documented association of urban growth with forest conversion in order to establish such a proxy.	Discuss with WG	Economic
v	CQ 17b	Same comments as Category 3		Economic
С	CQ 17b	AF&PA recommends accepting the recommendations of NCASI.  Acreage thresholds should be removed from the NRA and conversion should be designated as low risk.	Discuss with WG	Economic
С	CQ 17b	AFRC recommends accepting the recommendations of NCASI.		Economic
С	CQ 17b	If the control measures require (like SFI) sharing information with log sellers and mills sourcing material, Columbia is ok with proviso we do not precisely understand what we are committing to in terms of audited indicators. If we provide pamphlet or attached pdf on conversion with each log supply analysis form, this could be done (by printing the information on the reverse of each, possibly?) again we support the broad concept of education, but not sure about how this will look as an audit item to have met the indicator, criteria.	Discuss with WG	Economic
С	CQ 17b	Part of the original issue of the NRA was concerning antitrust concerns and requirements forcing all companies not to purchase specific items. The NRA needs to allow flexibility specific to conversion where certificate holders are not all required not to buy a specific item to stay out of antitrust concerns. Multiple mitigation options are needed for category 4 as a method to move forward.	Discuss with WG	Economic
С	CQ 17b	The required statement in CM 4a is ill-conceived and unnecessary. Its premise (that big clearings cause more forest loss than small clearings) is unsupported and suspicious. Circulating unsupported declaratory statements is likely to undermine, rather than support, more broadbased education efforts.	Discuss with WG	Economic
х	CQ 17b	See above for Category 3 control measures.		Economic
Х	CQ 17b	At a high level the regional meetings could be very useful control measure, however until regional meetings are held, and actual mitigation options are discussed and delineated, it is difficult to provide feedback on the open-ended process.		Economic
Х	CQ 17b	Undecided		Environmental

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		If we accept conversion as an issue when it is not caused by forest management than the Puget Trough is experiencing +.05% loss due		
		to urbanization and that should be specified risk. Calling out all of WA, CA, and OR is a mistake. The research for the rest of WA, OR,		
		and CA is not sufficient to designate specified risk. The precautionary approach should be moved from defaulting to specified risk to		
R	CQ 17b	"requires additional review" or low risk to protect HCV 5.	Discuss with WG	Social
1	CQ 175	requires additional review of low hisk to protect flev 5.	Discuss With WG	300101
R	CQ 17b	Accept NCASI statistical analysis of conversion rates and change category 4 conversions to low risk	Discuss with WG	Economic
			Review arguments and	
			edit text to reflect that	
			while the regional data	
			assessments show no-	
			net loss of forest, there is	
		No, the rationale and data used to make the conversion case don't seem to make sense. However, there seems to be an over-riding	evidence of forest	
		desire to make conversion an issue, so it would be better to simply state that conversion is a problem from the FSC's perspective, and	converstion at finer	
R	CQ 17b	move on with CMs, rather that argue over datasets to support an opinion.	scales	Economic
		This is a very difficult issue and one we are not sure how FSC can reasonably be expected to address and therefore cannot answer this		
Х	CQ 17b	question.		Environmental
		Clarity of purpose is needed before we would be comfortable with the approach to control measures. Can Conversion Wood be openly		
		allowed into the system? If not, per the current official stated policy, do you want to continue the current system of telling suppliers		
		that it isn't allowed and then tolerating a system where anyone who cares to find out can know that it is in fact in the supply chain?		
		CM 4.a: We prefer allowing conversion wood from planned development in all cases and understand if conversion of forest to farmland		
		was not allowed, but this raises issues of how to know.		
	00.45	CM 4.b: Meetings should have clarity regarding purpose.		
C	CQ 17b	CM 4.c: Mitigation measures can't be developed without clarity regarding purpose.	Discuss with WG	Economic
	CO 471	The Control Measures seem reasonable but the issue is our inability to directly influence conversion which is the result of urban	- 1-	F
А	CQ 17b	development. The utility of this HCV is questionable.	n/a	Economic
		Category 4 should be designated low risk for entire US.		
R,C	CQ 17b	There should not be an acreage threshold for not accepting wood from conversion sites.	Discuss with WG	Economic
1.,0	00,270	There should not be underlying the u		
Α	CQ 17b	At this time, yes.	n/a	Environmental
		I would like to commend the folks who worked on this NRA (and the previous draft). This is the most well-thought out FSC standard I		
		have seen to date. Very much appreciate the deep dive into available data and literature on the topics at hand. Well done – I very much		
Α	CQ 18	support this NRA with a few minor changes.	n/a	Economic
		HCV 4 and the reality of U.S. forestry combine to provide an extremely difficult situation. I sympathize with leaders and stakeholders on		
Х	CQ 18	all sides. Best wishes!		Economic

		There is great concern with the proposed NRA and associated "mitigation actions" to be identified at future Regional meetings. The limited availability of FSC 100% certified fiber in the U.S. requires a cost-effective and usable CW standard and accompanying NRA. Companies continually weigh the benefits of certification against implementation costs. Companies that maintain FSC certifications may decide that the NRA, associated regional meetings, and mitigation actions are overly burdensome. Maintaining FSC CW certifications, particularly given the limited FSC fiber availability, which would erode the value of FSC certification for landowners. The requirements of the "mitigation actions" must provide benefits to consumers and be economically achievable. It is unclear whether the system that has been proposed by FSC-US in the NRA will result in actions that are reasonable for a company to achieve and may still prove unworkable in the U.S.  There is a great deal of overlap between the programing described in this proposal and the longstanding operations of the SFI program. Regional collaboration and promotion of sustainable forest procurement practices have always been an SFI strength. A great deal of effort and energy might be saved by finding a way to recognize, collaborate, and coordinate efforts.		
C	CQ 18	Please also refer to the attached Technical Comments submitted by the National Council For Air and Stream Improvement (NCASI) for consideration in various aspects as they relate to the draft NRA. (NCASI Technical Comments FSCUSNRA-Final.pdf)	Discuss with WG	Economic
		With all our respect to the FSC organization: FSC is creating too much trouble with all the changes to Controlled Wood. The whole system collapses if it is too difficult to source any		
Х	CQ 18	wood. FSC needs to concentrate on getting their FM certificates increased, and spend less time tinkering with CW.		Economic
		In commenting on High Conservation Values (HCVs), the NRA offers many statements about species and population trends, threats to HCVs, and impacts of forestry practices to HCVs. There is a tendency for the NRA to support such statements with references to		
		unpublished reports or individuals which/who in turn do not provide any data or citations to authoritative sources of information (e.g.,		
		peer-reviewed publications or reports by agencies or science-based organizations that present actual data regarding trends, threats, and		
		impacts). For example, the NRA (pg. 100) indicates that, for HCVs in the Ouachita River Valley Critical Biodiversity Area (CBA), "Stresses		
		caused by incompatible forestry practices include non-point source pollution (erosion & sedimentation) from operations that are not		
		using best management practices, heavy use of biocides and fertilizers associated with plantations, and extensive manipulation of		
		vegetative cover that affects infiltration and runoff of precipitation [32]." The cited authority for this statement, however, presents no supporting information to document the extent to which these factors are actually affecting HCVs. Rather, it describes factors that have		
		historically affected forests in the Ouachita River Valley CBA and the opinion of the authors about relationships between those factors		
		and HCVs (unsupported by references to data or peer-reviewed publications).		
		The NRA often treats rare events and events that can have short-term influences on forest structure or other aspects of forest		
		ecosystems qualitatively on par with factors that can have long-term consequences such as conversion of forest to other land uses.		
		While rare events can influence forests, the possibility that they can occur does not support the conclusion that widespread or major		
		impacts exist. Likewise, the potential for short-term influences on forest structure at the stand scale from activities such as forest	Improve rationale for	
		harvesting does not indicate that forest harvesting is having significant, landscape scale impacts on HCVs. In the FSC US webinar on	specified risk	
R	CQ 18	January 18, 2018, the presenter indicated that, to be considered in the NRA, risks should be frequent, systemic, and pervasive. However, the NRA appears to consider ephemeral, rare, and even hypothetical events as serious, ongoing threats.	designations when possible	Economic
111	100 10	The MAN appears to consider epitemenal, rate, and even hypothetical events as serious, ongoing threats.	possible	LCOHOITIC

		<ol> <li>What is the unit of measurement described on page 97 (10x10-3 species/km3)?</li> <li>Note 1 on page 31 references conversion. Why?</li> <li>More information on 'experts' needs to be provided. For example (and we're certainly not picking on Andrew exclusively with this comment, we like Andrew), why is Andrew Goldberg a legal expert? Does he have a JD in environmental law? Significant experience in the law? He reads a lot of John Grisham? Defining the referenced experts qualifications that make them an expert is standard practice in documents of this nature.</li> </ol>		
		4. As a smaller company on the solid wood side, there is concern on the increased due diligence that will be required in the areas that		
R	CQ 18	have been identified as higher risk.  5. Dependent on the outcome of NRA it will not justify to continue with our FSC products.	Edit text as appropriate	Economic
	53,25	<ol> <li>What is the unit of measurement described on page 97 (10x10-3 species/km3)?</li> <li>Note 1 on page 31 references conversion. Why?</li> <li>More information on 'experts' needs to be provided. For example (and we're certainly not picking on Andrew exclusively with this comment, we like Andrew), why is Andrew Goldberg a legal expert? Does he have a JD in environmental law? Significant experience in the law? He reads a lot of John Grisham? Defining the referenced experts qualifications that make them an expert is standard practice</li> </ol>		
R	CQ 18	in documents of this nature.	Edit text as appropriate	Economic
	CQ 18	This is a dramatic improvement over the first draft. It is imperative that FSC fully understand the complexity of the forest products supply chain. This draft does not completely recognize that and will cause problems because of it. A very high level decision concerning the role of this risk assessment needs reached before any further progress is made. Are you going to work within the current, efficient structure of the US supply chain or are you using this to try to force significant change? In the interest of transparency, all stakeholders deserve the answer to this before we can build the trust needed for this to succeed.	Discuss with WG	Economic
		Enviva supported NCASI comments In commenting on High Conservation Values (HCVs), the NRA offers many statements about species and population trends, threats to HCVs, and impacts of forestry practices to HCVs. There is a tendency for the NRA to support such statements with references to unpublished reports or individuals which/who in turn do not provide any data or citations to authoritative sources of information (e.g., peer-reviewed publications or reports by agencies or science-based organizations that present actual data regarding trends, threats, and impacts). For example, the NRA (pg. 100) indicates that, for HCVs in the Ouachita River Valley Critical Biodiversity Area (CBA), "Stresses caused by incompatible forestry practices include non-point source pollution (erosion & sedimentation) from operations that are not using best management practices, heavy use of biocides and fertilizers associated with plantations, and extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation [32]." The cited authority for this statement, however, presents no supporting information to document the extent to which these factors are actually affecting HCVs. Rather, it describes factors that have historically affected forests in the Ouachita River Valley CBA and the opinion of the authors about relationships between those factors and HCVs (unsupported by references to data or peer-reviewed publications).  The NRA often treats rare events and events that can have short-term influences on forest structure or other aspects of forest ecosystems qualitatively on par with factors that can have long-term consequences such as conversion of forest to other land uses.  While rare events can influence forests, the possibility that they can occur does not support the conclusion that widespread or major impacts exist. Likewise, the potential for short-term influences on forest structure at the stand scale from activities such as forest harvesting does not indicate that forest harvesting is having sign	Improve rationale for specified risk	
R	CQ 18	January 18, 2018, the presenter indicated that, to be considered in the NRA, risks should be frequent, systemic, and pervasive. However, the NRA appears to consider ephemeral, rare, and even hypothetical events as serious, ongoing threats.	designations when possible	Economic
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	1	Glatfelter is concerned with the direction of the proposed NRA and associated "mitigation actions" to be identified at future Regional		
1	1	meetings. The limited availability of FSC 100% certified fiber in the U.S. requires a cost-effective and usable CW standard and		
		accompanying NRA. Companies like Glatfelter continually weigh the benefits of certification against implementation costs and may		
		ultimately decide that the proposed NRA, associated regional meetings, and mitigation actions are overly burdensome and a strain on		
		available resources. It is unclear whether the system that has been proposed by FSC-US in the NRA will result in actions that are		
С	CQ 18	reasonable for a company to achieve.	Discuss with WG	Economic
		In commenting on High Conservation Values (HCVs), the NRA offers many statements about species and population trends, threats to		
		HCVs, and impacts of forestry practices to HCVs. There is a tendency for the NRA to support such statements with references to		
		unpublished reports or individuals which/who in turn do not provide any data or citations to authoritative sources of information (e.g.,		
		peer-reviewed publications or reports by agencies or science-based organizations that present actual data regarding trends, threats, and		
		impacts). For example, the NRA (pg. 100) indicates that, for HCVs in the Ouachita River Valley Critical Biodiversity Area (CBA), "Stresses		
		caused by incompatible forestry practices include non-point source pollution (erosion & sedimentation) from operations that are not		
		using best management practices, heavy use of biocides and fertilizers associated with plantations, and extensive manipulation of		
		vegetative cover that affects infiltration and runoff of precipitation [32]." The cited authority for this statement, however, presents no		
		supporting information to document the extent to which these factors are actually affecting HCVs. Rather, it describes factors that have		
		historically affected forests in the Ouachita River Valley CBA and the opinion of the authors about relationships between those factors		
		and HCVs (unsupported by references to data or peer-reviewed publications).		
		The NRA often treats rare events and events that can have short-term influences on forest structure or other aspects of forest		
		· ·		
		ecosystems qualitatively on par with factors that can have long-term consequences such as conversion of forest to other land uses.		
		While rare events can influence forests, the possibility that they can occur does not support the conclusion that widespread or major		
		impacts exist. Likewise, the potential for short-term influences on forest structure at the stand scale from activities such as forest	Improve rationale for	
		harvesting does not indicate that forest harvesting is having significant, landscape scale impacts on HCVs. In the FSC US webinar on	specified risk	
			designations when	
R	CQ 18	the NRA appears to consider ephemeral, rare, and even hypothetical events as serious, ongoing threats.	possible	Economic
v	CQ 18	Thank you for the opportunity to provide feedback.		Economic
^	CQ 18	AF&PA remains concerned with the proposed NRA and associated "mitigation actions" to be identified at future Regional meetings. The		LCOHOITIC
		limited availability of FSC 100% certified fiber in the U.S. requires a cost-effective and usable CW standard and accompanying NRA.		
		Companies continually weigh the benefits of certification against implementation costs. Companies that maintain FSC certifications		
		may decide that the NRA, associated regional meetings, and mitigation actions are overly burdensome. Maintaining FSC CW		
		certifications, particularly given the limited FSC fiber availability, erode the value of FSC certification for landowners. The requirements		
		of the "mitigation actions" must provide benefits to consumers and be economically achievable. It is unclear whether the system that		
		has been proposed by FSC-US in the NRA will result in actions that are reasonable for a company to achieve and may still prove		
С	CQ 18	unworkable in the U.S.	Discuss with WG	Economic
		Columbia understands first hand through participation in the early Controlled Wood NRA how challenging this work is. The present team		
		which has brought this effort to present date is to be commended.		
		FSC US as an organization together with its sister initiatives will have extend further into the supply chain and from this a better		
		understanding of wood resource will improve as will standing to comment and strike leadership stance for benefit of each chamber of		
		membership.		
Х	CQ 18	Onward, Upward!		Economic
		Allowing companies to use policy, education, outreach, offsets, excision (FM standard requirements) need to be present to allow		
_	CO 18		Discuss with MC	Economic
C	CQ 18	companies to take different approaches.	Discuss with WG	Economic

		There is a great deal of overlap between the programing described in this proposal and the longstanding operations of the SFI program.		
		Regional collaboration and promotion of sustainable forest procurement practices have always been an SFI strength. A great deal of		
С	CQ 18	effort and energy might be saved by finding a way to recognize, collaborate, and coordinate efforts.  1. In the NRA, FSC US typically refers generically to Torest management activities—as a potential threat to HCVS. Did they consider now	Discuss with WG	Economic
		specific elements of forest management may impact specific values? This more refined approach could potentially change some risk		
		designations. For example, the HCVs in the Ouachita River valley are associated with aquatic systems. Would implementation of BMPs		
		(say at >90%) reduce the risk of impairment? Similarly, when "mitigation options" are identified for areas of specified risk like the		
		Ouachita Valley, could, for example, implementation of BMPs be identified as a mitigation measure, and then could CHs cite state level		
		data of high BMP compliance as evidence of mitigation? How many of the identified risks are affected by implementation of BMPs?		
		And then for any remaining threats, how significant are they (e.g. could they be considered low risk?). e.g. what sort of quantitative		
		evaluation was completed to determine actual likelihood of impact to values? Note: this type of refined evaluation could evolve either		
		through the regional stakeholder meetings designed to identify mitigation options, or after the approval of the NRA when companies		
		are able to develop their own mitigation options (and convince CBs they are more effective than the ones in the NRA).		
		2. Will there be opportunity to develop 'combined' mitigation options that address multiple HCVs in the same landscape (e.g.		
		overlapping areas of specified risk) when appropriate rather than having to implement multiple mitigation options for multiple values		
		on the same area? Like a 'highest common denominator'.		
		3. BMPs are used as a proxy for a low risk determination for HCV4 – compliance rates high, effectiveness high – but not used for	Improve rationale for	
		example in the Ouachita River valley. Is there an opportunity to revisit the approach taken in the Ouachita River Valley CBA?	specified risk	
		4. The use of population growth is not a good proxy for conversion resulting from development pressures. It has resulted in large areas	designations when	
		being designated for specified risk – for example nearly all of GA and LA – which doesn't accurately reflect the reality. Alternatively, would the combination of FIA data along with data that demonstrates the amount of forest converted for development that takes place	possible; N/A - Ouachita CBA no longer identified	
		under community approved municipal zoning/municipal approval, more accurately depict what's happening and lead to a larger area	as an HCV; consider	
		designated as low risk.	alternative approaches to	
		5. FSC will take responsibility for monitoring effectiveness of control measure. How will this effectiveness monitoring be conducted?	Category 4 proxy; review	
		For example, will FSC develop agreed upon KPIs in advance to make sure there is clarity on when they are met/not met? Will FSC be	and revise as appropriate	
		asking CHs to collect and provide data? FSC should consider developing the monitoring framework as part of the NRA development	the definition and threats	
		process.	for Mixed Mesophytic	
		6. Using the FIA data resulted in statistic margin of error greater than the FSC threshold for conversion (0.02%). It would appear this	Forest & discuss	
R,C	CQ 18	result would demonstrate there is no evidence that the FSC threshold has been exceeded, yet FSC concluded they could not demonstrate	remainder with WG	Economic
		Our biggest area of concern is how restricting access to material from conversion will affect certificate holders and the FSC system.		
		1	Discuss control measure	
_	CQ 18	needs to be achieved across both certificate holders and CBs.	language with WG	Economic
<u> </u>	CQ 10	Regional meetings and mitigation steps MUST replace, instead of being additive, the work that was required prior to the NRA.	language with wo	Leonomic
		While I have great concerns about CW and the NRA I want to thank and comment staff that have worked on this process. It takes		
		leadership to take the risk outlined in our process. Regional meetings have the opportunity to strength the FSC system, unit		
C	CQ 18	stakeholders, and do good. The standard and process has been well thought out. Thank you.	Discuss with WG	Social
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		Accept WestRock's recommendations for the regional meeting governance structure and process.	Discuss with WG & FSC	
R,C	CQ 18	Accept NCASI recommendations.	US Board	Economic
-		The NRA needs to come to a close, one way or another, and Alaska needs to be included. There ongoing uncertainty and continuous		
		change and release of official Interpretations is degrading Cert Holder confidence in the FSC as a whole. FSC focus seems to have		
		shifted from sustainable forest management to ethical forest management, which are very different things, and involve different		
		metrics. Using CW, the NRA and any associated C to address sustainability and ethics is making the whole process a challenge.		
		This process is consuming huge amounts of resources and energy, both within FSC and industry (i.e., Cert Holders). What is proposed		
		going forward will take even more time, energy and cost. A the end of all of this process Cert Holders still have nothing. All they will		
		have is CW, no certified fiber, no credits, nothing that they can advertise or label. Nothing. This fact is weighing heavily with Cert		
		Holders and will be a decision driver to stick with FSC going forward. Cert Holders have options when it comes to certification, just like		
		anything else. FSC needs to be mindful of this fact.	Discuss with WG & FSC	
R,C	CQ 18		US Board	Economic
Х	CQ 18	See comments presented in the main body of our document.	Davieus esmalement - l	Economic
		We appreciate the effect and recovered that ECC has invested in the NDA process and products. Our symplemental comments provide	Review supplemental comments for additional	
		We appreciate the effort and resources that FSC has invested in the NRA process and products. Our supplemental comments provide significant additional content to what we were able to communicate through the comment form. Our intent with both was to provide	information resources	
		as much depth of information and constructive suggestions as possible. Where we have indicated No Comment (NC) we are not	and for topics to discuss	
R,C	CQ 18	endorsing or taking issue with the question, process or product. Thank you. Kit and Mike	with the WG	Economic
11,0	CQ 10	endorsing of taking issue with the question, process of product. Thank you. We and write	With the Wo	Leonomic
			Note that plantation	
		See NCASI comments.	definition will be	
		The question and definitions of exactly what constitutes "plantation" vs. "semi-natural" forest types in the context of US operations is	reviewed/revised as part	
		highly important and has significant implications. Yet, in the NRA and other FSC documents, the distinction is still very vague and	fo the FM standard	
		subjective for practitioners. FSC-US must provide clear operating definitions for these in the NRA.	revision prococess;	
		In general, FSC-US should consider and affirm that certification to the SFI Fiber Sourcing Standard could be considered a significant	Discuss recognition of SFI	
R	CQ 18	mitigation measure that would address a number of the Category 3 items that are designated with specified risk.	with WG	Economic
		We strongly encourage a collaborative approach that assesses risk not just at an individual certificate holder scale, but that considers		
		the landscape-level threats, drivers, and key stakeholders, and focuses control measures on meaningful, targeted action to alleviate		
		those threats. Given the complexities in the US forest sector supply chain, the prevalence of indirect sourcing, and the limited data and		
		resources available for many of the challenges facing HCVs, a collaborative approach is not only a new opportunity to address risks at a		
		different scale, it is indeed necessary if we hope to stir positive change for the conservation values and forest trends in the US, which		
		contains some of the most biodiverse ecological communities on the planet outside the tropics. If FSC US is in a position to engage key		
		stakeholders and build the bridges necessary to address the larger pie of forest threats, it and its members have a responsibility to do so. The proposed NRA Control Measures are a positive step in this direction. This coarse-scale framework and approach will also require		
С	CO 19	diligence and multi-stakeholder participation across all three FSC chambers to ensure the end result is credible.	Discuss with WG	Environmental
	CQ 18	unigence and multi-stakenoluer participation across an three roc chambers to ensure the end result is credible.	DISCUSS WILLI MA	LIIVII OIIIII EIILAI
		Not entirely. Supplier agreements have been removed from the NRA document, but not from the CoC standard. Risk mitigation options		
С	CQ 2	should not include avoidance or any language that can be construed as making a market restriction.	Discuss with WG	Economic
	1042	photos not mode a reliable of any language that can be constituted as making a market restriction.	2.00000 11111 110	

		Yes. FSC should continue the practices of having open public meetings with published agendas that include an antitrust reminder. The		
		development of multiple mitigation action options will all be essential to ensure autonomy in certificate holders' supply chain	Continue to plan for a set	
<u> </u>	CQ 2	strategies.	of mitigation options	Economic
С	CQ 2	Is it possible to add what was included in the first NRA draft – that alternative CM's may be proposed if they are deemed equal or better in protective value than the existing CMs? I'm not a lawyer so I can't comment on whether the antitrust concerns have been adequately addressed; but I do think it's worthwhile to leave options for some creativity outside of the meetings. Perhaps one additional requirement to an allowance like this would be to report the use of alternative measures to the Director of Science at FSC-US?	Note that 40-005 allows a company to develop their own CM if they can show that it will be more effective and efficient than the mandatory one.	Economic
X	CQ 2	The main issues with antitrust has to do with 40-005V3 requiring getting subsupplier documentation to verify district of origin. This is an FSC IC issue.		Economic
x	CQ 2	Yes, partially.  Mitigation options will ultimately determine antitrust concerns. Preventing otherwise legal harvests based on unrealistic mitigation options will increase the risk.		Economic
С	CQ 2	The removal of the supplier agreement requirements is a major improvement. However, there is a great deal of uncertainty that has been added to the control measures by requiring FSC certificate holders to attend regional meetings that will "identify a focused set of actions to reduce risk of sourcing materials" from specified lands. The identification and implementation of these actions may continue to raise antitrust concerns and adds another resource burden to companies attempting to comply with the Controlled Wood Standard.  This model has the added concern of companies, including companies not present, and being required to "provide information requested in the report." These requirements are vague and may raise concerns of shared privileged business information. A lack of detail on what types of actions would have to be taken by a company attempting to comply with the NRA add additional concerns for companies attempting to review and provide useful input. As a result, it remains unclear as to whether the antitrust concerns have been resolved.	Discuss with WG	Economic
X	CQ 2	Antitrust concerns are potentially met through multiple other processes and responding to them should not be a priority for the NRA process.		Economic
		Removing the requirement for supplier agreements is a step in the right direction. There may still be anti-trust issues with the yet	Continue to alon for a cot	
С	CQ 2	undeveloped mitigation measures. There must be multiple viable mitigation measures for certificate holders to choose from in order to reduce risk of anti-trust claims.	Continue to plan for a set of mitigation options	Economic
E	CQ 2	Antitrust concerns are easily met through multiple other processes and responding to them should not be a priority for the NRA process. With that being said, the processes as described certainly should alleviate any concerns of anyone that has legitimate anti-trust concerns. One question comes up as a reader though, are "supplier agreements" the same as "supplier declarations" that are in current and common usage? Whether they are or are not, the definition should be added to the glossary.	Add Supplier Agreements and Supplier Declarations terms to the glossary, if used in the document	

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E	CQ 2	Antitrust concerns are easily met through multiple other processes and responding to them should not be a priority for the NRA process. With that being said, the processes as described certainly should alleviate any concerns of anyone that has legitimate anti-trust concerns. One question comes up as a reader though, are "supplier agreements" the same as "supplier declarations" that are in current and common usage? Whether they are or are not, the definition should be added to the glossary.	Add Supplier Agreements and Supplier Declarations terms to the glossary, if used in the document	Economic
С	CQ 2	In general, the antitrust concerns have been resolved. The next step is to ensure a large array of stakeholders is present at the CW Regional Meetings. The meetings cannot be attended or dominated by a few groups or companies. Multiple control measures must also be identified at each meeting to give certificate holders multiple methods to mitigate risk.	Continue to plan for a set of mitigation options	Economic
A	CQ 2	Yes	n/a	Economic
С	CQ 2	Honestly, I remain skeptical. The concern is more about perception from the aggrieved landowners. If a CH finds themselves in a position of having to defend themselves over price fixing or other practices, the outcome of the case may not be significant. The damage is done on the front end. It is imperative that the reputational risk associated with this be removed or borne by FSC-US.	Discuss with WG	Economic
С	CQ 2	The removal of the requirement for supplier agreements is an improvement to the FSC US NRA document, however, uncertainty still exists with the control measure requiring FSC certificate holders to attend regional meetings. Companies unable to provide a resource to attend the meetings will miss out on the opportunity to provide meaningful and useful input into the development of the mitigation actions. Those companies that are able to attend may establish mitigation actions that potentially prevent a competitor from procuring wood from areas of specified risk.	Provide engagement opportunities for individuals and organizations unable to attend the meetings	Economic
А	CQ 2	Yes.	n/a	Economic
С	CQ 2	No, there is still ambiguity in the risk assessment as it pertains to secondary and tertiary suppliers. We feel the need for there to be clarification in regards to whom the informational packets outlined in the control measures will be dispersed to and to what extent the mitigation measure will have to be implemented and tracked (if necessary) by secondary and tertiary suppliers. The ambiguity of the control and mitigation measures at the moment leaves the door open for future antitrust activity to take place. For example, if secondary and tertiary suppliers of residual products must send out information packets and track the implementation of mitigation measures, this may break antitrust laws by forcing the companies that operate in competing markets to provide information to one another that otherwise would be proprietary.	Discuss with WG	Economic
А	CQ 2	Not having been present for the discussion, I may not be able to accurately comment on this. Given the explanation of the issue provided in the 1st Draft Consultation however, the removal of the requirement would seem more than adequate.	n/a	Economic

		T	T	
		It remains unclear as to whether the antitrust concerns have been alleviated. Certainly, the removal of the requirement for supplier		
1		agreements is a major improvement in the document; however, there is a great deal of uncertainty that has been added to the control		
		measures by requiring FSC certificate holders to attend regional meetings that will "identify a focused set of actions to reduce risk of		
		sourcing materials" from specified lands. The identification and implementation of these actions may continue to raise antitrust		
		concerns and adds another resource burden to companies attempting to comply with the Controlled Wood Standard.		
		This model has the added concern of companies, including companies not present, and being required to "provide information requested		
		in the report." These requirements are vague and may raise concerns of shared privileged business information. A lack of detail on what		
		types of actions would have to be taken by a company attempting to comply with the NRA add additional concerns for companies		
С	CQ 2	attempting to review and provide useful input.	Discuss with WG	Economic
		Yes. However, the presence of a sentence required by FSC controlled wood standard still stands related to an agreement to contact,		
		update downstream supplier discovers credentials not what were originally communicated in terms of species or legality. This sentence		
		is now built into log origination forms used in combination with harvest radius rationale to attribute suppliers to Columbia's risk		
		assessment (national risk assessment, once finalized and accepted.) Columbia also remains concern about the fact the mitigation		
C	CQ 2	actions are not formalized as part of the review of the CW NRA.	Discuss with WG	Economic
	CQ 2	actions are not formalized as part of the review of the CVV WINA.	Consider developing	LCOHOITIC
		Antitrust concerns have been alleviated provided that multiple options are allowed by FSCUS, Auditing Bodies, and ASI during	guidance once the NRA is	
			final and the mitigation	
V	60.3	guidance is provided to certification bodies it should be public what that guidance is so that certificate holders and membership has an	options have been	F
Х	CQ 2	understanding of what the standards will mean.	identifiedd	Economic
		Maybe. It is not realistic to describe antitrust concerns as being "resolved". A better objective is to effectively manage and mitigate the		
		legal risks of participation. The framework proposed here appears likely to achieve this objective. Its success will depend largely upon		
Α	CQ 2	the output of the proposed Regional Meetings and the specifics of the Mitigation menu options.	n/a	Economic
×	CQ 2	It would be better served to ask this question of an antitrust attorney.		Economic
X	50,2	it would be better served to dark this question of unfurthered attended.		Leonomie
С	CQ 2	Leaving the option for a company to create their own CMs is a viable solution to mitigate any real or perceived antitrust concern.	Discuss with WG	Social
		Yes, but FSC needs to provide clarification on this topic. Many companies have been getting CW documentation in place over the last 2		
		years in anticipation of expected need to comply with US CW NRA, and are already requiring supplier agreements for CW asking for		
С	CQ 2	declarations of specific origin.	Discuss with WG	Economic
		We street the discovery and the street of th		
		Keeping the discussion and requirement away from contracts and formal agreements removes anti-trust concerns. There is a word of		
		caution related to the regional meetings. The recommended mitigation measure cannot be allowed to limit or restrict the sales of	D: ::1.1440	
C	CQ 2	virgin fiber based on location. That would be viewed as anticompetitive.	Discuss with WG	Economic
		This will largely depend on what the mitigation action (i.e., Control Measures) end up being. At present, there is no clarity on what the		
			Emphaiza that the	
			Emphsize that the	
		and connect to forest managers, you will continue to have anti-trust issues.	mitigation options should	
		It is worth noting that there is currently a fairly large volume of wood in the US market that comes from South America (radiata and	be both practical and	
	CQ 2	taeda pine), so there is no easy way to say all wood in the US is low risk (much of it is actually from outside the US).	effective	Economic

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		In the Atlanta meeting we discussed the importance of developing mitigation actions to assure HCV designations would not be considered a boycott on forest products, whether from a specific region or a specific forest type. This is a reasonable approach, with the exception of the Late Successional Bottomland Hardwoods. In this case, the designation of a seral stage infers that there can be no harvest of this type (possibly perceived as a boycott) because a harvest would inherently alter the age-structure of the stand. It might be argued that some form of uneven-aged management could be used on a limited basis (i.e. single-tree selection) which might maintain the predominant late-successional age structure of a stand, however, this could lead to degradation of the forest from both an economic and ecological standpoint. In fact, according to Kellison et al. 1997 (Kellison and Young 1997), the majority of southern bottomland stands in private ownership contain a degraded mixture of species, the result of repeated incomplete harvests. If the development and maintenance of "old-growth" bottomland hardwood forests on the landscape is what this HCV designation is driving at, a recognition and protection of federal, state, and private conservation areas should be the primary mitigation action. It is not appropriate to expect private landowners to forgo the ability to responsibly harvest and manage bottomland hardwood systems, which do not reach financial maturity until this later seral stage.  To fully address the anti-trust concerns, mitigation measures as proposed would have to be reviewed by legal experts to ensure little	Diameter (III) MG	
R	CQ 2	perception of anti-trust emerge from the process.  Yes	Discuss with WG	Economic Economic
		Certainly, the removal of supplier agreements is a major step. The antitrust issues in the first consultation really focused on the potential requirements related to supplier on-site audits, including access to suppliers' books, files, and records. So long as this type of thing is off the table, that goes a long way toward addressing antitrust concerns related to suppliers.  Another antitrust concern is the potential for on-site or field audits of landowners from whom suppliers source wood. If yet to be determined mitigation measures result from the regional meetings involve this sort of thing, there will still be antitrust concerns.  Another antitrust concern relates to forest products manufacturers collectively excluding and refusing wood from certain landowners,		
A, C	CQ 2	when the wood otherwise meets all legal requirements in the marketplace. A major example is excluding wood from conversion sites.	Discuss with WG	Economic
Α	CQ 2	No concern. We are confident ecological and social risk can be addressed in a meaningful way that does not violate antitrust.	n/a	Environmental
А	CQ 20	Yes	n/a	Economic
Δ	CQ 20	Yes	n/a	Economic
A	CQ 20	Yes	n/a	Economic
А	CQ 20	Yes	n/a	Economic
А	CQ 20	Yes	n/a	Economic
Δ	CQ 20	Yes	ln/a	Economic
A	CQ 20	Yes	n/a	Environmental
А	CQ 20	Yes	n/a	Economic
А	CQ 20	Yes	n/a	Economic

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Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
_	CQ 20		ii) a	LCOHOITIC
_	60.30	V	n /n	F:-
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
	60,20		11,7 G	Economic
	CQ 20	Yes		Economic
	CQ 20	res		LCOHOITIC
	60.20	w	- I-	F
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Environmental
С	CQ 20	No	Discuss with WG	Economic
A	CQ 20	Yes	n/a	Economic
-	CQ 20		11/ 4	Leonomic
_	CO 20	Voc	n/a	Faanamia
Α	CQ 20	Yes	n/a	Economic
1.	00.00		,	
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Economic
_	CQ 20	Yes	n/2	Environmental
Α	LU 20	lie?	n/a	Environmental

	<u> </u>			
Δ	CQ 20	Yes	n/a	Economic
	00,20		11,4	Leonomie
Α	CQ 20		n/a	Economic
		Before we can respond to the concept and specifics of regional meetings and collaborative development of control/mitigation measures		
		we feel like we need more clarity on the NRA's final specified risks and the threats driving the risks for Category 3 and 4. This is why we		
		did not respond to the questions in the comment form on control measures/mitigation measures. Our sense is once the risk		
		assessment is finalized that certificate holders will be able to develop control measures for specified risks within their unique		
		procurement basins, specific to their procurement systems and certification bodies will be able to objectively evaluate the effectiveness		
_		of control actions during CoC/CW audits. We are not conceptually against regional meetings and collaborative control measure		
R	CQ 20		Discuss with WG	Economic
Α	CQ 20	Yes	n/a	Economic
_	CQ 20	Yes	n/2	Social
A	CQ 20	165	n/a	Jocial
С	CQ 20	No	Discuss with WG	Economic
	100			
Α	CQ 20	Yes	n/a	Economic
Α	CQ 20	Yes	n/a	Environmental
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
^	CO 21	Vac	n/o	Faanamia
A	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
	94,11		,	
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Environmental
Α	CQ 21	Yes	n/a	Economic
Α	Cq 21	Yes	n/a	Economic
_	CQ 21	Vac	n/a	Economic
Α	CQ 21	Yes	n/a	Economic

Α	CQ 21	Yes	n/a	Economic
	CQ ZI		117 4	LCOHOITIC
Α	CQ 21	Yes	n/a	Economic
			·	
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
١.	60.24		,	
Α	CQ 21	Yes	n/a	Economic
С	CQ 21	No	Discuss with WG	Economic
<u> </u>	CQ 21		Discuss with Wd	LCOHOITIC
Α	CQ 21	Yes	n/a	Economic
	50,21		1,7 0	Economic
Α	CQ 21	Yes	n/a	Environmental
			·	
С	CQ 21	No	Discuss with WG	Economic
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
			,	
A	CQ 21 CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Environmental
Α	CQ 21	Yes	n/a	Economic
R	CQ 21	Yes, but believe risk designations should be low risk so shouldn't be necessary	Discuss with WG	Economic

			T	1
		Before we can respond to the concept and specifics of regional meetings and collaborative development of control/mitigation measures		
		we feel like we need more clarity on the NRA's final specified risks and the threats driving the risks for Category 3 and 4. This is why we		
		did not respond to the questions in the comment form on control measures/mitigation measures. Our sense is once the risk		
		assessment is finalized that certificate holders will be able to develop control measures for specified risks within their unique		
		procurement basins, specific to their procurement systems and certification bodies will be able to objectively evaluate the effectiveness		
		of control actions during CoC/CW audits. We are not conceptually against regional meetings and collaborative control measure		
R	CQ 21	development, however, without the benefit of the final NRA it is hard to provide a yes or no answer.	Discuss with WG	Economic
Α	CQ 21	Yes	n/a	Economic
A	CQ 21	Yes	n/a	Social
С	CQ 21	No	Discuss with WG	Economic
Α	CQ 21	Tentatively Yes	n/a	Economic
Α	CQ 21	Yes	n/a	Environmental
			•	
			Note that we are	
			required to follow the	
			FSC International	
			template for the main	
		We suggest streamlining the NRA wherever possible to remove duplication of language and also to adopt a structure more resembling a	document. Edit citations	
_	CO 3	research paper. Some of the citations were difficult to follow as there were multiple citations with the same number in some places.		Economic
A	CQ 3	Yes, it is very helpful.	to use unique numbers.	Economic
A	cq s	, , ,	Provide access to	ECOHOITIC
	60.3	have two separate documents (one with the template required by international and another with the annexes). I'm usually a fan of	annexes as separate	F
А	CQ 3	everything in one place, but this is quite overwhelming when first approaching it.	documents	Economic
			There is already a TOC in	
			the template document	
			and each Annex has its	
		A table of contents would certainly simplify things.	own. No additional	
E	CQ 3	It is understandable that to some extent the format is what FSC IC is requiring.	changes necessary.	Economic
		Yes, I have limited concerns finding information, but I have much experience working with long, complex documents and with FSC. It		
		would be easier to navigate your document if you changed the footers to provide additional details regarding which part of the		
		document the reader is in. For example instead of lumping "FSC-NRA-USA V2-0 DRAFT, ANNEX E" for much of the document I suggest		
E	CQ 3	at least splitting out the 5 categories of CW, for example "Annex E, HCV 3 - Ecosystems and Habitats".	Edit footers	Economic
_	50,5	actions springing out the 3 categories of every for example. Affiliance, price 3. Ecosystems and Habitats.	Lait 100tc13	Esonomic
Α	CQ 3	Yes. Full detail provided in annexes is appropriate and provides additional detail on the decision-making process of FSC-US.	n/a	Economic

<u>Е</u> А	CQ 3 CQ 3	Having the same/similar content in two different places is significantly more complex, and makes the entire document less usable rather than more. As much of the document appears to be an extensive literature review, the NRA should be structured according to standardly accepted research paper structures. The numbering of references should be standardized throughout the entire document. Confusion for the reader is created by not using the same reference numbers between the summary section and the Annex. It would be helpful to use a page linked TOC, so the reader can go directly to sections of interest. It would also be useful if the TOC extended one more level (to include HCV1, HCV2, etc.).	Note that we are required to follow the FSC International template for the main document. Edit citations to use unique numbers, and keep those numbers consistent between the template and annexes n/a	Economic Economic
		Category 2- Annex D was certainly easier to read and more clearly laid out than the table included in the body of the text. I wonder what the purpose is of including a format within the paper that the authors themselves deem hard to follow. Should not the charts and tables be an annex instead, as is customary with many scientific papers, and the explanatory text be part of the paper itself? Additionally, it may be more easily navigable should the sources be sectioned off by category at the end of the paper, instead of including several pages of source information within the body of the text. This is, of course, simply personal preference.  Category 3 & 4- After seeing the greatly improved structure of Annex D compared with the table summary of Category 2 information, I		
		did not bother with the in-text tables and skipped straight to Annex E and Annex G. I agree with your conclusion that these		
Α	CQ 3	supplementary pages are indeed more natural to read, but again raise the question of why the existing structure is being utilized.	n/a	Environmental
А	CQ 3	The annexes are helpful. Please leave them in the final document.	n/a	Economic
		Having the same/similar content in two different places is significantly more complex, and makes the entire document less usable rather than more. While it would be nice if the NRA rose to the level of a systematic review, it appears to be a simple literature review. Regardless, it should be structured according to standardly accepted research paper structures.  Also, having multiple reference numbers per section, e.g. [33] in cat 2 is different than [33] in cat 3, makes it very difficult to connect the dots between sources. Not using the same reference numbers between the summary section and the Annex is ridiculous, e.g. Roanoke River Conservation Action Plan is [33] on page 122, but 3. on page 176.	Note that we are required to follow the FSC International template for the main document. Edit citations to use unique numbers,	
		Additionally, some of the cut/paste/summarization is not very clean, leading the reader to try to figure out which is more accurate, the summary or the annex. For example, page 102, Florida Panhandle CBA states, "The Florida Wildlife Action Plan [54] identified forestry practices as a threat to one of the longleaf pine habitat types that occurs in the CBA and regional experts have confirmed that conversion to other managed forest types continues to be a threat. [57]. Reported threats to steephead ravine habitat include altered hydrologic regimes, conversion to other land uses, fire suppression. Forestry practices were identified as a low source of stress to the habitat in the Florida Wildlife Action Plan." Which is it? Does the Florida SWAP identify forestry as a threat, or does it say it is a low source of stress? Only when you go to the Annex, does it become clear that a crucial portion of the paragraph is simply missing from the summary text. Removing the duplicative sections would alleviate this issue and avoid future trouble with interpretation. It would be helpful to use a page linked TOC, so the reader can jump directly to the section they want to read. It would also be nice if the TOC extended one more level (to include HCV1, HCV2, etc.)  Lastly, if the goal of the NRA is to be more available to the average reader, words like "usufructuary" should be removed from the	each category annex.	

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		Having the same/similar content in two different places is significantly more complex, and makes the entire document less usable rather than more. While it would be nice if the NRA rose to the level of a systematic review, it appears to be a simple literature review. Regardless, it should be structured according to standardly accepted research paper structures.  Also, having multiple reference numbers per section, e.g. [33] in cat 2 is different than [33] in cat 3, makes it very difficult to connect the dots between sources. Not using the same reference numbers between the summary section and the Annex is ridiculous, e.g. Roanoke River Conservation Action Plan is [33] on page 122, but 3. on page 176.  Additionally, some of the cut/paste/summarization is not very clean, leading the reader to try to figure out which is more accurate, the summary or the annex. For example, page 102, Florida Panhandle CBA states, "The Florida Wildlife Action Plan [54] identified forestry practices as a threat to one of the longleaf pine habitat types that occurs in the CBA and regional experts have confirmed that conversion to other managed forest types continues to be a threat. [57]. Reported threats to steephead ravine habitat include altered hydrologic regimes, conversion to other land uses, fire suppression. Forestry practices were identified as a low source of stress to the habitat in the Florida Wildlife Action Plan." Which is it? Does the Florida SWAP identify forestry as a threat, or does it say it is a low source of stress? Only when you go to the Annex, does it become clear that a crucial portion of the paragraph is simply missing from the summary text. Removing the duplicative sections would alleviate this issue and avoid future trouble with interpretation. It would be helpful to use a page linked TOC, so the reader can jump directly to the section they want to read. It would also be nice if the TOC extended one more level (to include HCV1, HCV2, etc.)  Lastly, if the goal of the NRA is to be more available to the averag	each category annex. Review for uncommon/highly technical words and	
E	CQ 3	document, and some more basic definitions should be added to the glossary, such as "Forest Management Activities".	replace or define	Economic
А	CQ 3	Yes, it makes since to include the Annexes. FSC CW Risk Assessments are long and detailed just by their construction. A large and complex company makes the document even longer. The Annexes provide summaries of the decisions/analysis and are easier to read/comprehend than the tables. They are very long and detailed but necessary.	n/a	Economic
Α	CQ 3	The format is fine.	n/a	Economic
Α	CQ 3	Yes.	n/a	Economic
Α	CQ 3	Yes.	n/a	Economic
Α	CQ 3	Yes, the additional detail provided in the Annexes is useful and appropriate.	n/a	Economic
			,	
Α	CQ 3	Yes.	n/a	Economic
A	CQ 3	Yes, this makes sense.	n/a	Economic
<u> </u>		I appreciate the format as it is. The main document provides step-by-step structure needed to understand how everything ties together,		20011011110
Α	CQ 3	while the Annexes provide additional context that can be read as a memo or report would read.	n/a	Economic
А	CQ 3	Yes. Full detail provided in annexes is appropriate and provides additional detail on the decision-making process of FSC-US.	n/a	Economic
A	CQ 3	Yes. Full detail provided in annexes is appropriate and provides additional detail on the decision-making process of FSC-US.	n/a	Economic

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E	CQ 3	Columbia has no objection to the draft standard inclusion of Category 2,3 and 4 Annexes as suggested. That said, FSC has used a separate document for CW, COC entitled "interpretations of the normative framework" which might be a better fit. Have to remember ISO requirements at audit require each indicator to be checked offif we are out of conformance, want the reference to "out of conformance with what" to be clear. Understood this is a CW NRA and not a COC or CW standard, but perhaps best to fall in with how those document types are deployed.  Because the bulk of the work is going to be within regional meetings this issue should not have any major time spend on it. Whatever is easiest for FSCUS and the staff working on this document is fine providing that the document is searchable and easy to copy and paste from.	Consider revising Annexes to replicate how the 'Interpretations' documents are structured and reference requirements n/a	Economic Economic
		Yes. It is probably unrealistic to expect the US-NRA to be a general interest publication. Rather, it is a narrowly focused policy document;		
А	CQ 3	designed for a specific purpose by a rather limited group of users. In this context, the use of Annexes is helpful in maintaining a practical limit to the central text.	n/a	Economic
F	CQ 3	Breaking out the information into the Annexes aided in the reading and understanding of the material. A suggestion would be to create an executive summary for this document along with general maps with risk designations for all categories. This would simplify the work of certificate holders trying to figure out how to update their DDS to the NRA.	Consider developing an executive summary including maps by category after the NRA is approved.	Economic
L	cqs		Consider structural changes; Expand existing linked TOC to include	Leonomic
E	CQ 3	I prefer to have everything in one document. As this means the document long and hard to sort through can we use a page linked TOC, so the reader can jump directly to the section they want to read.	Annexes if combined into one document	Social
А	CQ 3	Yes, the additional of the Category 2, 3 and 4 annexes are helpful.	n/a	Economic
Δ	CQ 3	Provided there no conflict in info between the actual RA and the supporting info, it shouldn't really matter.	n/a	Economic
A	CQ 3	This seems fine	n/a	Environmental
Α	CQ 3	Yes	n/a	Economic
E	CQ 3	Yes, it makes complete sense if the reader is clearly directed to the details provided in the annexes. There is already a very good note at the very front of the section. Consider adding an additional reminder at the top of the risk review table to further prevent confusion.	Insert a reminder of the annexes at the top of the risk review table.	Economic
Α	CQ 3	The annex format makes sense and is a good way to expand on and clarify information in the body tables.	n/a	Economic
E	CQ 3	No strong opinion. We agree that presentation and organization of information is important to ensure user-friendliness and effectiveness. However, given previous confusion among certificate holders and stakeholder regarding annexes being normative and/or required, it should be very clear when and if there are requirements embedded in the annexes. There should generally not be requirements in the annexes that are not in the primary normative document.	Ensure that all requirments in the annex and main body are identical	Environmental

		considered Critical Biodiversity Areas, based on an analysis by The Nature Conservancy. The NRA indicates that this threshold was selected to ensure known areas of high biodiversity were included.  Some of the Critical Biodiversity Areas (CBAs) are quite large including, for example, approximately three-fourths of California, ≈35% of Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC to re-evaluate their methods for delineating CBAs.  We also encourage FSC US to consider whether there are opportunities to address two additional aspects of their methods. First, as	Note that we are unable to manipulate the	
			dataset in the ways suggested, because we only have the index number for each data cell with which to work. Review analysis to ensure smoothing	
R	CQ 4a	the NRA appear to have filtered species based on their association with forests. Taking a similar approach for the analysis of the species  Yes. Identifying areas of concern on a map based on science-based evidence is only the first step in a credible analysis of specified risk areas. Given the gravity of assessing the risk for all certificate holders in the US, FSC should ground-truth the map areas to determine a higher level of accuracy for the areas identified as specified risk as a next step. Publishing specified risk areas for HCV 1 that have not been ground-truthed weakens the credibility of the FSC NRA. In addition, having to essentially treat large acreages of unoccupied range as specified risk adds to unnecessary work. For example, the gopher frog has very precise known locations on USFS lands. These are well known protected areas. However, two counties are shown as the specified risk area. Another troubling designation is the lvory billed woodpecker area—One or more lvory billed woodpecker were seen in the big woods of Arkansas about a dozen years ago and they have not been seen since, so realistically they do not inhabit this area with any certainty. Most of the habitat is in two National Wildlife Refuges, White River and Cache River. These refuges conduct timber harvesting because they are trying to manage the habitat in a way that mimics natural processes thus working towards maintaining the needed habitat. Identifying this as a specified risk will make it more difficult for the wildlife refuges to manage for the exact habitat FSC seeks to protect. FSC should also know that the management	Note that FSC US does not have the resources nor staff available to ground truth, and must depend upon the	Economic
R	CQ 4a	the Mississippi River system over the last 100 years.	20 years	Economic
х	CQ 4a	None that I know of		Economic

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			Category 1 is about	
			whether laws are	
			followed, whereas the	
			Category 3 assessment	
			was required to consider	
			whether those laws are	
		Why is the 'comprehensive legal structure' adequate for illegality (cat 1) and traditional rights (cat 2), but not for HCV1 species (see	effective in protecting	
		page 93).	the HCV in question;	
			evidence suggests that	
		The reliance on NatureServe as a single-source of information is somewhat problematic.	the ESA does not protect	
			all species in need; use	
		The reference to "lack of BMP implementation" when there does not seem to have been any interaction with the State level SIC SFI	other sources of	
		committees seems odd since they are conducting monitoring of BMPs in most States.	information beyond	
			NatureServe when	
		The Endangered Species Act, Clean Water Act, and individual State SWAP programs could all be used to mitigate the conclusions of	available; review BMP	
		NatureServe.	implementation data;	
			note that use of the	
		The use of the "precautionary approach" is a valid starting point and it may be reasonable for FSC FM certification, but it is not	'precautionary approach'	
		reasonable for a CW NRA. The NRA should be very clear; there is either a known problem, in which case there is specified risk, or there	is required, but discuss	
		is not a known problem, in which case the risk is low. The Ivory-billed Woodpecker is a perfect example of going overboard on the	criteria for filtering HCV 1	
R	CQ 4a	precautionary approach. As a NCAST member, we rely neavily on their scientific expertise and evaluation of the draft NKA. We therefore will incorporate NCAST	species with WG	Economic
		As a NCAST Member, we rely heavily on their scientific expertise and evaluation of the draft NKA. We therefore will incorporate NCAST		
		comments on this question.	to manipulate the	
		Designation of Critical Biodiversity Areas  To identify Critical Biodiversity Areas, FSC US used a species richness index published by NatureServe and The Nature Conservancy (TNC)	dataset in the ways	
		that identifies areas with high concentrations of rare species based on element occurrence data from NatureServe. The spatial unit of	only have the index	
			number by data cell with	
		considered Critical Biodiversity Areas, based on an analysis by The Nature Conservancy. The NRA indicates that this threshold was	which to work. Work with	
		selected to ensure known areas of high biodiversity were included.	WG to find a scale for	
		Some of the Critical Biodiversity Areas (CBAs) are quite large including, for example, approximately three-fourths of California, ≈35% of	smoothing doesn't over	
		Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the	inflate areas; revisit	
		smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of	information sources	
		conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC US to re-evaluate		
		their methods for delineating CBAs (e.g., evaluate implications of different grid sizes) to ensure that they encompass only areas with	as a threat to	
		high endemism of forest-associated species.	biodiversity; note that	
		We also encourage FSC US to consider whether there are opportunities to address two additional aspects of their methods. First, as	just becuase a forest	
		acknowledged in the NRA (pg. 169), "One limitation of the NatureServe dataset is that it is driven by survey effort". In other words,	system can be managed	
		surveys for species have not been conducted uniformly across the landscape. Therefore, areas may appear to have a high level of	sustainably, doesn't	
		species richness relative to other areas in the landscape simply because of survey effort. We encourage FSC US to consider whether	mean that it is	
		there are opportunities to weight the index based on survey effort. Second, the NRA (pg. 169) acknowledges that "this index is	consistently; Note that	
		influenced by non-forest species." In other words, all species are included in the richness index including those associated with non-	biodiversity includes	
		forest land covers. The NRA (pg. 169) assumes that "in areas that are predominately forested or forest matrix (and where forest	many more species that	
		management activities are more likely occurring) it should be representative of biodiversity in those areas." However, when selecting	vertibrates, and many of	
		Priority Species for assessment in the NRA, the authors of the NRA appear to have filtered species based on their association with	these species are	
		forests. Basing the species richness index only on forest-associated species would strengthen the NRA.	affected when forest	
		Herbicide Application	systems change; discuss	
<sub>D</sub>	CQ 4a	The NRA identifies "herbicide application[s] that have the potential to inhibit native understory communities" as a threat to longleaf	with WG potential	Economic
11	CQ 4a	The MAC Identifies Therbicide application(s) that have the potential to infinite hadre understory communities as a tilledit to longled	with we potential	LCOHOHHIC

		There appears to be differing degrees of importance given to the adequacy of existing legal structures in the U.S. The following is stated on page 93, "As detailed in Category 1, the US has a broad and comprehensive legal structure that addresses the protection of socially and ecologically important sites, administered at both the federal and state level. The risks of non-compliance with these laws on public lands is generally low. The risk on private lands is also low, but attention should be given to areas known to be important to listed species." Why is the 'comprehensive legal structure' adequate for addressing illegality (Category 1) and traditional rights (Category 2), but they are not considered adequate for protection of HCV1 species?		
			whether those laws are effective in protecting the HCV in question;	
		impacts of various activities on natural habitats. In areas of specified risk, every bit of research that could support a low risk designation should be reviewed and explicitly addressed on a document by document basis. It is not reasonable to make a specified risk	evidence suggests that the ESA does not protect	
		determination based on one source, such as the NatureServ database as an example, no matter the breadth of the index.	all species in need; use other sources of	
		Regarding the determination of specified vs. low risk, applicable to this section and throughout the document, there are many instances where "the precautionary approach should be taken", or where "may", "likely", "potentially", etc. are used in the description of a	information beyond NatureServe when	
		possible issue. The precautionary approach is a stopgap measure to be used by companies when they are approached with a potential	available; review BMP	
		issue, but have not had adequate time to research the reality of that issue yet. The NRA is supposed to be the final word on these issues, not a stopgap measure. Furthermore, using the "precautionary approach" may be reasonable for FSC FM certification, but it is	implementation data; note that use of the	
		not reasonable for a CW NRA. The NRA should be very clear; there is either a known problem, in which case there is specified risk, or	'precautionary approach'	
R	CQ 4a	there is not a known problem, in which case the risk is low.	is required	Economic

		Designation of Critical Biodiversity Areas	Category 1 is about	1
		,	whether laws are	
		that identifies areas with high concentrations of rare species based on element occurrence data from NatureServe. The spatial unit of	followed, whereas the	
		analysis was a grid of hexagons, each about 160,000 acres in size. Areas that had an index of 10 x 10-3 species per km2 or greater were	Category 3 assessment	
		considered Critical Biodiversity Areas, based on an analysis by The Nature Conservancy. The NRA indicates that this threshold was	was required to consider	
		selected to ensure known areas of high biodiversity were included.	whether those laws are	
		Some of the Critical Biodiversity Areas (CBAs) are quite large including, for example, approximately three-fourths of California, \$\approx 35\% of	effective in protecting	
		Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the	the HCV in question.	
		smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of	Evidence suggests that	
		conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC US to re-evaluate	the ESA does not protect	
		their methods for delineating CBAs (e.g., evaluate implications of different grid sizes) to ensure that they encompass only areas with	all species in need; while	
		high endemism of forest-associated species.	there is broad use of	
		We also encourage FSC US to consider whether there are opportunities to address two additional aspects of their methods. First, as	BMPs in the US, there is	
		acknowledged in the NRA (pg. 169), "One limitation of the NatureServe dataset is that it is driven by survey effort". In other words,	some evidence that there	
		surveys for species have not been conducted uniformly across the landscape. Therefore, areas may appear to have a high level of species	places where they are	
		richness relative to other areas in the landscape simply because of survey effort. We encourage FSC US to consider whether there are	not implemented as	
		opportunities to weight the index based on survey effort. Second, the NRA (pg. 169) acknowledges that "this index is influenced by non-	effectively and	
		forest species." In other words, all species are included in the richness index including those associated with non-forest land covers. The	effectiveness for	
		NRA (pg. 169) assumes that "in areas that are predominately forested or forest matrix (and where forest management activities are	protection of biodiversity	
		more likely occurring) it should be representative of biodiversity in those areas." However, when selecting Priority Species for	is not fully understood;	
		assessment in the NRA, the authors of the NRA appear to have filtered species based on their association with forests. Basing the	use other sources of	
		species richness index only on forest-associated species would strengthen the NRA.	information beyond	
		Herbicide Application	NatureServe when	
		The NRA identifies "herbicide application[s] that have the potential to inhibit native understory communities" as a threat to longleaf	available; note that use	
		biodiversity values in the Southern Appalachians CBA (pg. 101), the Cape Fear Arch CBA (pg. 102), and the Florida Panhandle CBA (pg.	of the 'precautionary	
R	CQ 4a	102).	approach' is required	Economic
		Based on my limited knowledge, I cannot suggest an alternative process of determining HCV 1 determination for species under consideration. However, I would be interested in more information on the process of determining significance within the existing framework.  Specifically, I would like insight into how NatureServe determines the abundance cutoff for what is and is not a "great abundance" of a	Review text and clarify	
F	CQ 4a	species within a potential CBA. I felt the explanation for how rarity and dependency were calculated was clear and well-reasoned.	the thresthold if possible	Environmental
_		appeared maintain parentain out in the explanation for now rainly and dependency were edited and order and well readoned.	and an estational in possibile	
R	CQ 4a	Please reference comments made by NCASI.	Discuss with WG	Economic
<u></u>	100,10	1 reason services commented made by North	2.55555	

age 93 states. As detailed in Category 1, the O5 has a proad and comprehensive legal structure that addresses the protection of category 1 is about socially and ecologically important sites, administered at both the federal and state level. The risks of non-compliance with these laws whether laws are on public lands is generally low. The risk on private lands is also low, but attention should be given to areas known to be important to followed, whereas the listed species." Why is the 'comprehensive legal structure' adequate for illegality (cat 1) and traditional rights (cat 2), but not for HCV1 Category 3 assessment species? was required to consider whether those laws are To expand upon that, between the Endangered Species Act, Clean Water Act, and individual State SWAP programs, there should be effective in protecting more than enough protections for a low risk determination across the board. For example, the document references SWAPs (pg 97), and the HCV in question. then decides to ignore them when looking at CBAs. That is not reasonable. Also for SBAs, the 303d lists for each state should be Evidence suggests that referenced to determine if actual impairments exist (based on water quality assessments and habitat/fish or macroinvertebrate the ESA does not protect community assessments). These are public records required by the Clean Water Act, but aren't referenced in this NRA. In areas of all species in need; note specified risk, every bit of research that could support a low risk designation should be reviewed and explicitly addressed on a document that while there is broad use of BMPs in the US, by document basis. It is not reasonable to make a specified risk determination based on one source, no matter the breadth of the index. This is especially true because NatureServe, while broad in scope, is predominantly filled with research from non-game/heritage there is some evidence sources that are disconnected from forest management activities. that there places where they are not Regarding the determination of specified vs. low risk, and this comment applies here, but also throughout the document; there are so implemented as many instances of "the precautionary approach should be taken", or where "may", "likely", "potentially", etc. are used in the description effectively and their of a possible issue. The precautionary approach is a stopgap measure to be used by companies when they are approached with a effectiveness for potential issue, but have not had adequate time to research the reality of that issue yet. The NRA is supposed to be the final word on protection of biodiversity these issues, not a stopgap measure. Furthermore, using the "precautionary approach" may be reasonable for FSC FM certification, but is not fully understood; it is not reasonable for a CW NRA. The NRA should be very clear; there is either a known problem, in which case there is specified risk, use other sources of or there is not a known problem, in which case the risk is low. This drive by certain members of FSC to turn CW from a 'minimum level information beyond for mixing' standard into "FSC FM lite" has become untenable. If those members spent as much time trying to build a consumer base NatureServe when for FSC material as they spent screwing around with what constitutes CW, perhaps we could actually be discussing a post CW market lavailable: note that use CQ 4a right now. of the 'precautionary Economic

R	CQ 4a	This should be limited to G1 and G2 species and commonly accepted practices for their protection. Some of this goes beyond that.	*Unsure what is meant by the second part of the comment.*	Economic
			Reach out to experts regarding identification of HCV 1 species;	
А	CQ 4a	No, NatureServe has the best source of data.	n/a	Economic
R	CQ 4a	species?  To expand upon that, between the Endangered Species Act, Clean Water Act, and individual State SWAP programs, there should be more than enough protections for a low risk determination across the board. For example, the document references SWAPs (pg 97), and then decides to ignore them when looking at CBAs. That is not reasonable. Also for SBAs, the 303d lists for each state should be referenced to determine if actual impairments exist (based on water quality assessments and habitat/fish or macroinvertebrate community assessments). These are public records required by the Clean Water Act, but aren't referenced in this NRA. In areas of specified risk, every bit of research that could support a low risk designation should be reviewed and explicitly addressed on a document by document basis. It is not reasonable to make a specified risk determination based on one source, no matter the breadth of the index. This is especially true because NatureServe, while broad in scope, is predominantly filled with research from non-game/heritage sources that are disconnected from forest management activities.  Regarding the determination of specified vs. low risk, and this comment applies here, but also throughout the document; there are so many instances of "the precautionary approach should be taken", or where "may", "likely", "potentially", etc. are used in the description of a possible issue. The precautionary approach is a stopgap measure to be used by companies when they are approached with a potential issue, but have not had adequate time to research the reality of that issue yet. The NRA is supposed to be the final word on	Need to reflect in response to comments that Category 1 is about whether laws are followed, whereas the Category 3 assessment was required to consider whether those laws are effective in protecting the HCV in question. Emphasize text that notes that the ESA does not protect all species in need and that while there is broad use of BMPs in the US, there is some evidence that there places where they are not implemented as effectively; use other sources of information beyond NatureServe when available; note that use of the 'precautionary approach' is required	

		Enviva specific comments		
		Central Appalachian CBA		
		The process used to determine the location of Appalachian Mixed Mesophytic Forests seems a bit heavy handed. I am aware		
		NatureServe provided a new data set but was apparently missing some refinement. The use onmost recent data is commendable but if		
		this new data is actually less useful because it is missing critical additional analysis then it is actually less valuable. The location on		
		mesic cove sites have been established by WWF being pretty much the same region defined in the last NatureServe dataset. Some		
		things are for certain;		
		- Mesic sites do not move or change. They were created by shifting tectonic plates. The established maps such as WWF's should suffice		
		for this risk assessment.		
		- Threats to this forest type list forest fragmentation driven by logging. A definition of forest fragmentation; " is the breaking of large,		
		contiguous, forested areas into smaller pieces of forest; typically these pieces are separated by roads, agriculture, utility corridors,		
		subdivisions, or other human development". Timber harvesting does not meet the definition of forest fragmentation. We can find a		
		point of agree on the location of Appalachian Mixed Hardwood Forests but we cannot agree with the assessment timber harvesting is a cause of forest fragmentation.		
		- Using an unrefined data set does not benefit users of the risk assessment with the promise to revisit in the next revision. FSC should		
		wait until NatureServe completes the refinement of the data set before using it in the NRA		
		- Once a president is set it is much more difficult to turn back. If FSC uses this data set in the NRA it is unlikely it will be revised down to		
		a more succinct area in subsequent reviews and more likely a broad brush will be used in future assessments to define other potential		
		forest concerns in a "its in there somewhere approach".		
		The current data set and definition of mesophytic cove sites has not been fully developed to at least the same quality as previous data	Discuss use of Revised	
		sets and definitions. FSC CW Risk Assessment requires CH to use WWF information and maps.	NatureServe dataset with	
		http://www.cas.vanderbilt.edu/bioimages/ecoregions/50517frame.htm	WG; review and improve	
		Southern Appalachian CBA	as possible the definition	
		A lack of forest BMP implementation is cited as one of the reasons for forming this CBA. The National Association of State Foresters	for Cove sites; consider	
R	CQ 4a	(NASF) website includes link to eac states forest management plan and information regarding forestry BMP implementation. Other	additional BMP data	Economic
		Glatfelter incorporates by reference the set of comments submitted by the National Council for Air and Stream Improvement (NCASI) on		
R	CQ 4a	this question.	Discuss with WG	Economic

	1	Designation of Critical Biodiversity Areas	INOTE THAT WE are unable	
		To identify Critical Biodiversity Areas, FSC US used a species richness index published by NatureServe and The Nature Conservancy (TNC)		
		that identifies areas with high concentrations of rare species based on element occurrence data from NatureServe. The spatial unit of	dataset in the ways	
			suggested, because we	
		considered Critical Biodiversity Areas, based on an analysis by The Nature Conservancy. The NRA indicates that this threshold was	only have the index	
		selected to ensure known areas of high biodiversity were included.	number per data cell	
			with which to work. Work	
		Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the	with WG to ensure that	
		smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of	smoothing doesn't over-	
		conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC US to re-evaluate	inflate areas; revisit	
		their methods for delineating CBAs (e.g., evaluate implications of different grid sizes) to ensure that they encompass only areas with	information sources	
		high endemism of forest-associated species.	regarding herbicide use	
		We also encourage FSC US to consider whether there are opportunities to address two additional aspects of their methods. First, as	as a threat to	
		acknowledged in the NRA (pg. 169), "One limitation of the NatureServe dataset is that it is driven by survey effort". In other words,	biodiversity; note that	
		surveys for species have not been conducted uniformly across the landscape. Therefore, areas may appear to have a high level of species	just becuase a forest	
		richness relative to other areas in the landscape simply because of survey effort. We encourage FSC US to consider whether there are	system can be managed	
			sustainably, doesn't	
			mean that it is	
		NRA (pg. 169) assumes that "in areas that are predominately forested or forest matrix (and where forest management activities are	consistently; Note that	
		more likely occurring) it should be representative of biodiversity in those areas." However, when selecting Priority Species for	biodiversity includes	
		assessment in the NRA, the authors of the NRA appear to have filtered species based on their association with forests. Basing the	many more species that	
		species richness index only on forest-associated species would strengthen the NRA.	vertibrates, and many of	
		Herbicide Application	· · · · · · · · · · · · · · · · · · ·	
			these species are	
		The NRA identifies "herbicide application[s] that have the potential to inhibit native understory communities" as a threat to longleaf	affected when forest	
_	60.4-	biodiversity values in the Southern Appalachians CBA (pg. 101), the Cape Fear Arch CBA (pg. 102), and the Florida Panhandle CBA (pg.	systems change; discuss	F
R	CQ 4a	102).	with WG potential	Economic
			Consider using TEOW to	
		Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the	refine specified risk	
		smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of	regions based upon the	
		conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC to re-evaluate	assessed drivers of	
R	CQ 4a	their methods for delineating CBAs by using a tighter grid sample.	biodiversity	Economic
		I wonder whether or not a process based on indicator species would lend itself to a more wholistic approach, instead of the current		
		focus on habitat, rarity, and imperilment. The result produced under the current approach appears to leave large gaps, and identifies		
		species that may not even be relevant. The population size and health of an indicator species on the other hand provides us with far		
		greater information about the ecosystem as a whole, as opposed to taking some measure that might consist of avoiding sourcing from a		
		county where a species of concern is known to exist. Further, even where a specified risk is identified, we need to acknowledge how		
		forest management activities may benefit the species of concern. For example, restoration efforts in longleaf pine ecosystems in the		
		south may effectively increase habitat for some species. In some cases, forest products harvested during restoration must be		
		merchandized to pay for the effort itself. Avoiding an area where this type of activity is taking place could ultimately impact the market		
R	CQ 4a	value of those forest products, making it more challenging to fund future restoration efforts.	Discuss with WG	Economic
		, , , , , , , , , , , , , , , , , , , ,		
R	CQ 4a	AF&PA incorporates by reference the comments submitted by NCASI on this question.	Discuss with WG	Economic
	CQ 70	A CALL COMPONENTS BY TOTAL COMMITTENES SUBMITTEEN BY MONOT ON THIS QUESTION.	DISCUSS WITH WO	LEGITOTITIC
D	CO 42	AEDC incorporates by reference the comments submitted by NCASI on this greation	Discuss with MC	Economic
R	CQ 4a	AFRC incorporates by reference the comments submitted by NCASI on this question.	Discuss with WG	Economic

х	CQ 4a	None for which Columbia has secured substantiated third-party support as required in NRA comment preamble.		Economic
А	CQ 4a	The methodology used to identify HCV1 species commensurate with the scale or regions makes sense.		Economic
Α	CQ 4a	No. CBA's are an appropriate – if imperfect – mechanism for assessing HV1 risks.	D: WG (:II. :	Economic
		The methodology used for HCV1 individual species was sound. However, the inclusion of a species that has had no confirmed sightings	Discuss with WG filtering	
		in over 50 years, Ivory-billed Woodpecker, throws into question the integrity of the whole process. There is the same concern for including a species such as the Cheoah Bald Salamander whose known range, based upon the maps provided in the NRA, occurs on the	the HCV 1 species for	
		Nantahala National Forest and the Smokey Mountains National Park. Both areas are already protected. We suggest taking a second	those that have been documented in the last	
			two decades (or	
R	CQ 4a	they should be listed as low risk.	something similar)	Economic
	ट्यू नव	The NRA's threshold for identifying priority RTE species is seriously off-target for an assessment of risk to RTE species and biodiversity	Joinething Jimmar)	Leonomie
		in the US. As described at page 103 of the NRA, recognition was effectively limited to species listed as G1 in the NatureServe system		
		(in addition to being limited based on their "S" rankings). In other words, only the very most globally threatened species were		
		considered, largely regardless of their level of endangerment within the US despite the fact that many species are highly endangered		
		within the US while not being listed as G1 due to their status in other countries or other reasons.		
		Just a few examples from Western states of the many species excluded by this methodology that are officially listed as threatened or		
		endangered in the US, that are at least partly forest dependent, that are often threatened by forestry activities, and that that arguably of		
		especially high conservation priority and high profile: various cutthroat trout, various Pacific salmonids and steelhead, bull trout,	Note that HCV 1 species	
		marbled murrelet, Northern spotted owl, Canada lynx, and woodland caribou.	are not the same thing as	
			RTE species; discuss with	
R	CQ 4a	Why not use State and Federal RTE lists?	WG	Environmental
		I am worried that NatureServe or any singular database is not enough to determine risk. I recognize FSC does not have the resources to		
		drill down more than what has been attempted. However, we may need a way to highlight studies and resources raised by organizations		
		in their comments or company risk assessments from the past so that we can evaluate them and flag them for further discussion during		
		regional meetings and as we evolve our NRA over time. If this level of dissemination is not possible or prudent it should at least be part		
		of the working group's discussion prior to approval of the NRA risk designations. If this is planned already, great!		
		An example of significant data available on key topics outside of the NatureServe database is the PNW research station that has been	Consider additional	
		monitoring the impact of the northwest forest plan for 20 years. They have extensive reviews done at interval to look at HVC concerns	information soures	
R	CQ 4a	and goal achievement.	identified	Social
		WestRock incorporates by reference the comments submitted by NCASI on this question.	Look for evidence of the	
			effectiveness of these	
		practices laws reduce the risk to specific species. Example of this are in California, Washington and Oregon. In these cases the risk	forest practice laws and	
R	CQ 4a	designation should be Low Risk.	discuss results with WG	Economic
		The species level is too fine a scale approach of a high-level assessment such as this. Cert Holders will not be able to manage at the		
R	CQ 4a	species level. The scope needs to stay high, at the state level, at a minimum.	Discuss with WG	Economic
<u> </u>				

			Note that HCV 1 species	
			are not the same thing as	
		Unclear why State and Federal RTE lists were not used. Looking at only the most globally threatened species, rather than including	RTE species; discuss with	
R	CQ 4a	species at risk in the US, is overly narrow and leaves out important protections for many forest-dependent species in the country.	WG	Environmental
Α	CQ 4a	The process is very appropriate.		Economic
			Note that we are unable	
			to manipulate the	
			dataset in the ways	
			suggested, because we	
			only have the index	
			number per data cell	
R	CQ 4a	Recommend utilizing a consistent methodology to exclude non-forested species and areas from the HCV identification process.	with which to work.	Economic
			Discuss with WG;	
		See NCASI comments.	consider using WWF	
		In general and conceptually, the methodology is on the right track. However, as noted in the NCASI comments, many of the CBAs are	TEOW to refine CBA in	
		very large, and these should be filtered and refined.	reference to the systems	
		It is still going to take significant resources and effort for wood procurement organizations to keep track of when wood is coming from	that are identified as	
		an area of specified risk and be sure mitigation measures apply to those sources. Therefore, it is difficult to respond to this question	driving biodiveristy and	
R	CQ 4a	until the yet to be determined mitigation measures from the regional meetings are known.	that are threatened	Economic
		Support a methodology that provides baseline consistency in determining risk designations. This adds credibility to the process, allows		
		for a data source that can be monitored over time, and has potential to introduce opportunities or partnerships to augment the data,		
		which is needed. There is added potential in identifying the data gaps that need to be addressed for any risk to be assessed long-term	Discuss with WG;	
		for an HCV species' health.	consider other	
		Because of known NatureServe data limitations, relying solely on NatureServe data could result in omission of important HCV species,	information sources	
R	CQ 4a	and should be complemented with expert opinion and consultation.	identified	Environmental
		While we don't have the internal resources or expertise to identify specific datasets for use here, we are worried about the use of the	Review language used,	
		precautionary approach and terms like "potentially" and "may" in this section of the NRA. We think the document that all US controlled	but recognize that use of	
		wood risk will be based on going forward should be precise, complete, and should have researched quite systematically to eliminate	the precautionary	
R	CQ 4b	those unknowns to make risk determinations.	principle is requried	Economic

		In commenting on High Conservation Values (HCVs), the NRA offers many statements about species and population trends, threats to HCVs, and impacts of forestry practices to HCVs. There is a tendency for the NRA to support such statements with references to unpublished reports or individuals which/who in turn do not provide any data or citations to authoritative sources of information (e.g., peer-reviewed publications or reports by agencies or science-based organizations that present actual data regarding trends, threats, and impacts). For example, the NRA indicates that, for HCVs in the Ouachita River Valley CBA, "Stresses caused by incompatible forestry practices include non-point source pollution (erosion & sedimentation) from operations that are not using best management practices, heavy use of biocides and fertilizers associated with plantations, and extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation [32]." The cited authority for this statement, however, presents no supporting information to document the extent to which these factors are actually affecting HCVs. Rather, it describes factors that have historically affected forests in the Ouachita River Valley CBA and the opinion of the authors about relationships between those factors and HCVs (unsupported by references to data or peer-reviewed publications).		
		The NRA often treats rare events and events that that can have short-term influences on forest structure or other aspects of forest ecosystems qualitatively on par with factors that can have long-term consequences such as conversion of forest to other land uses. While rare events can influence forests, the possibility that they can occur does not support the conclusion that widespread or major impacts exist. Likewise, the potential for short-term influences on forest structure at the stand scale from activities such as forest harvesting do not indicate that forest harvesting is having significant, landscape scale impacts on HCVs. In the FSC webinar on January 18, 2018, the presenter indicated that, to be considered in the draft NFA, risks should be frequent, systemic, and pervasive. However,	Consider additional information soures identified; assess inforamtion sources for validity; review assessments in regards	
R	CQ 4b	plan where habitat may exist. I have attached an example of a Fruitgrower's THP that addressed this species (section 2 resubmitted, pages 25-28). A specified risk should not be designated for a species that is fully protected under State Forest Practice Rules and Endangered Species Acts. There may be others this overlay would result in reducing from specified risk to low risk due to the regulatory	Look for evidence of the effectiveness of these state-scale regulatory frameworks and discuss	Economic
R R	CQ 4b	overlay.  SFI may be the competitor but they have implemented State level research especially on BMPs that could be useful. As have the various USFS regional offices.	Look for these sources of information	Economic Economic
R	CQ 4b	As a NCASI member, we rely heavily on their scientific expertise and evaluation of the draft NRA. We therefore will incorporate NCASI comments on this question.  The NRA designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife Service Environmental Conservation System suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds primarily into upland pine-dominated forests, the geographic area designated as being at specified risk because of this species could be delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed information about the location of occupied ponds is available in the recovery plan for the Dusky Gopher Frog.	Discuss with WG; assess options for refining specified risk area	Economic

		Other resources like State Wildlife Action Plans (SWAPs), 303d lists, and a thorough review of the individual research findings indexed on NatureServe can provide more specific information on assessing risk in different areas.  Some portions of the NRA reference existing regional research or management plans from external groups like the Southeast Aquatic Resources Partnership's (SARP) Aquatic Habitat Plan (referenced in the HCV 1 section). Additional plans of this type in the U.S. should be reviewed and consulted as well.  Web-based databases like the NatureServe databases are dynamic resources and information can and does change over time. The NRA should have specific embedded resources from the NatureServe database listed as references wherever possible, particularly for	Consider additional	
R	CQ 4b	individual species information.	resources identified	Economic
R	CQ 4b	The NRA designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife Service Environmental Conservation System suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds primarily into upland pine-dominated forests, the geographic area designated as being at specified risk because of this species could be delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed information about the location of occupied ponds is available in the recovery plan for the Dusky Gopher Frog.	Assess information available and discuss with WG	Economic
		See above		
Α	CQ 4b	Additionally, I agree with the usage of NatureServe as a more robust resource for information on imperiled species than the ESA		Environmental
		SWAPs, 303d lists, a thorough review of individual research findings indexed on NatureServe.  Some portions of the NRA reference existing regional research or management plans from external groups (example: the Southeast Aquatic Resources Partnership's (SARP) Aquatic Habitat Plan is referenced in the HCV 1 section). That is but one of several regional entities that are part of National Fish Habitat Partnership. There are 14 regional Fish Habitat Partnership entities covering the conterminous U.S., and many of them have developed, or are developing, regional aquatic habitat plans.  Most importantly, like many web-based databases that are a dynamic resource, information can and does change over time. The NRA absolutely has to have specific embedded resources from the NatureServ database listed as references wherever possible. This is	Consider additional	
R	CQ 4b	particularly important for the individual species information.  SWAPs, 303d lists, a thorough review of individual research findings indexed on NatureServe.  Some portions of the NRA reference existing regional research or management plans from external groups (example: the Southeast Aquatic Resources Partnership's (SARP) Aquatic Habitat Plan is referenced in the HCV 1 section). That is but one of several regional entities that are part of National Fish Habitat Partnership. There are 14 regional Fish Habitat Partnership entities covering the conterminous U.S., and many of them have developed, or are developing, regional aquatic habitat plans.  Most importantly, like many web-based databases that are a dynamic resource, information can and does change over time. The NRA absolutely has to have specific embedded resources from the NatureServ database listed as references wherever possible. This is	resources identified  Consider additional	Economic
R	CQ 4b	particularly important for the individual species information.	resources identified	Economic
Α	CQ 4b	The ESA list is useful but incomplete as the assessment details.		Economic
Χ	CQ 4b	Yes, see above		Economic

		Enviva supported NCASI comments		
		The NRA designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife		
		Service Environmental Conservation System suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it		
		is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds		
		primarily into upland pine-dominated forests, the geographic area designated as being at specified risk because of this species could be	Discuss with WG; assess	
		delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed	options for refining	
R		information about the location of occupied ponds is available in the recovery plan for the Dusky Gopher Frog.	specified risk area	Economic
		The NIDA designates the Design Control Func (1) the better account of the Design Although the control the LLC Fish C MCHIS		
		The NRA designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife		
		Service Environmental Conservation System suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it		
		is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds		
			Assess information	
		delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed	available and discuss	
К	CQ 4b	information about the location of occupied ponds is available in the recovery plan for the Dusky Gopher Frog.	with WG	Economic
		resounds throughout this assessment and its policies/determinations. This is particularly evident in the overwhelming representation of		
		environmental and social interests. We feel there should be a more even representation of various individual groups from government,		
		industry, and conservation representatives (i.e. USFWS, USFS, and NCASI along with numerous others would play an important role in		
		shaping the policies and decisions that will define the forestry industry throughout the US).		
		Additionally, For several CBAs, the NRA indicates that forestry operations are adversely affecting water quality. For example,		
		"operations that are not using best management practices" and "extensive manipulation of vegetative cover that affects infiltration and		
		runoff of precipitation" are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially due to		
		loss of near-stream forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe		
		erosion of river banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these		
		threats for the Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point"	Assess sources of	
		source pollution (including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat.	information and consider	
		Thus, the NRA appears to conclude that forestry practices are having a pervasive and adverse effect on water quality in many of the	additional sources from	
		CBAs.	industry and federal	
			agencies; Note that the	
		The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state	HCV4 and HCV 1	
		forestry agencies. Furthermore, the statements conflict with Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes that	assessments were	
		"Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high	completed at different	
		likelihood that HCV 4 are being effectively protected throughout the assessment area through the implementation of forestry BMPs	scales and that BMPs are	
		associated with State nonpoint source pollution programs."	designed to protect	
			water quality, but their	
		6	effectiveness at	
		for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP	protecting biodiversity is	
		programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log	not completely	
		landings, skid trails, streamside management zones, and stream crossings. Twenty-five states had written new BMP guidelines or	understood; discuss with	
R	CQ 4b	revised their guidelines within five years of the survey by Cristan et al. (2017).	WG	Economic
-	•			

		NatureServe is a good, all-encompassing dataset, but there are several others typically used at the project-planning level that could be used in conjunction with NatureServe, or in development of mitigation actions, to further refine the approach. Some examples might be:  • USFWS IPaC: https://ecos.fws.gov/ipac/  • ODFW Compass: http://dfw.state.or.us/maps/compass/  • California Wildlife Habitat Relationships: https://www.wildlife.ca.gov/Data/CWHR		
		<ul> <li>WDFW Priority Habitats and Species: https://wdfw.wa.gov/conservation/phs/</li> <li>StreamNet: https://www.streamnet.org/</li> <li>It is also important to note that each of these datasets contains a spatial element, which is not available through NatureServe (NatureServe provides a description of range and habitat, and a list of counties with presumed presence, but has no detailed mapping element). Not all states will have a planning application like the ones identified here, but they should be used in the HCV threats assessment and development of control measures, when and where they are available. From the information provided in Annex E, it would appear that these sources were used, but since they are not specifically referenced, it is unclear how they were used. As an example – the specified risk for the Lesser Slender Salamander calls out all of San Louis Obispo County, but the California Wildlife</li> </ul>		
		Habitat Relationships site identifies only a small portion of the county centered around Black Mountain, as known habitat for the		
	CO 41-	species. It is unclear why this information was not used to further refine the area for this species, but was used to refine the habitat	Consider additional	<b>5</b>
K	CQ 4b	area for the Scott Bar Salamander. This type of inconsistency casts doubt on the thoroughness and validity of the overall process.	resources identified	Economic
Х	CQ 4b	Not that we are aware of.		Economic
,	00.41			
Х	CQ 4b	Unsure. See note above		Economic
R	CQ 4b	As mentioned above, State and Federal RTE lists should be consulted. At a minimum, in addition to those species currently identified, the FSC should also recognize the priority species identified in the prior NRA, and ensure they are covered by Control Measures.  It will be valuable to have a method for screening and allowing additional outside data to be taken into account.	Note that listed and HCV 1 are not the same; discuss with WG	Environmental
R	CQ 4b	If NatureServe flags a species for risk as HCV we must take rules at the national and state level that try to address the specific species issue into account. If there are adequate protections required for forest management in the state or county we should move our designation from specified to low risk.	Consider assessments and discuss with WG as needed	Social
		The NRA designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife Service Environmental Conservation System suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds primarily into upland pine-dominated forests, the geographic area designated as being at specified risk because of this species should be delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed	Assess information available and discuss	
R	CQ 4b	information about the location of occupied ponds is available in the recovery plan for the Dusky Gopher Frog.	with WG	Economic
1			Note that listed and HCV	
			1 are not the same,	
1			particularly not state- listed species; discuss	
R	CQ 4b	As mentioned above, State and Federal RTE lists should be consulted.	with WG	Environmental
l	100,10	The manufacture and a second management of the	1	

			Discuss with WG filtering	
		Again, the review and framework for assessment was very good. The only real complaint heard at the Atlanta meeting was the inclusion	-	
			•	
		of the ivory-billed woodpecker. This species is an anomaly. Perhaps it is worth FSC addressing it as suchreducing its risk rating due to	those that have been	
		lack of sound scientific evidence that would support its existence? Alternatively, this can be handled at the Regional Meetings where	documented in the last	
R	CQ 4b	hopefully there would be a consensus.	two decades	Economic
		See NCASI comments.		
		So long as scientifically based data sets, such as NatureServe are used, then this should be satisfactory. Avoid any datasets that are		
A,R	CQ 4b	based on opinions or preferences of individual groups.	Discuss with WG	Economic
Α,ΙΝ	CQ 40	based on opinions of preferences of marwadan groups.	Discuss with WG filtering	LCOHOTTIC
		FSC needs to be careful when using the criteria that was used in this analysis when it identifies species that may be extinct or	the HCV 1 species for	
		extirpated. For example, Ivory billed woodpecker was chosen as one of the species , yet the scientific community is not even in	those that have been	
		agreement if ivory billed woodpecker even exists. The concern is that now FSC would require management /protection for this species	documented in the last	
R	CQ 4c	which may not exist.	two decades	Economic
х	CQ 4c	No		Economic
		It is recommended that additional consideration be given to some of the specific information about each species in the NatureServe		
		database beyond the initial two-step filtering described in the NRA. Species of concern risk determinations should take into account	Consider additional	
R	CQ 4c	expert opinions and scientific research related to expected impacts of forest management activities on specific species.	resources identified	Economic
			Discuss with WG filtering	
			the HCV 1 species for	
			those that have been	
			documented in the last	
R	CQ 4c	Add a criterion for not including species understood to be extinct.	two decades	Economic
K	CQ 4C	Add a criterion for not including species understood to be extinct.	two decades	LCOHOITIC
		Additional consideration should be given to some of the specific information about each species in the NatureServe database beyond the		
		initial two-step filtering described in the NRA. Species of concern risk determinations should take into account expert opinions and		
		scientific research related to expected impacts of forest management activities on specific species. For example, related to the Cheoah	Consider additional	
		Bald Salamander (Plethodon cheoah), this species is listed in the table on page 95 of the NRA (see footnote 2) as the Priority Species of	resources identified; note	
		concern for the Appalachian Region. If you refer to the NatureServe database and review the detailed notes for this species, two expert	that when available	
		opinions are noted in "Overall Threat Impact Comments". They appear to present different, and possibly conflicting, opinions on the	information conflicts, the	
			,	Economic  Economic  Economic  Economic
_		impact of forest management activities on this species. This is one example. Overall, the depth of review for areas of specified risk is	precautionary approach	
R	CQ 4c	lacking in the NRA.	should be used	Economic
		I felt the use of NatureServe to designate Critical Biodiversity Areas was particularly well reasoned. To our knowledge there are no more		
		criteria that need consideration.		
Δ	CQ 4c	I also agree with the designation of Specified Risk for species whose threats from forest management activities cannot be determined.		Environmental

	For an example of what should be done in the NRA, see NatureServe comments on Cheoah Bald Salamander regarding logging.		
	This species is listed in the table on page 95 of the NRA (see footnote 2) as the Priority Species of concern for the Appalachian Region. If		
	you refer to the NatureServe database and review the detailed notes for this species, two expert opinions are noted in "Overall Threat		
	habitat disturbance (Beamer, pers. comm., 2003). This and other Plethodon species can persist in relatively small patches of habitat		
	(Beamer and Lannoo 2005)."		
	It is recommended that additional consideration be given to some of the specific information about each species in the NatureServe		
	database beyond the initial two-step filtering described in the NRA. Species of concern risk determinations should take into account		
	expert opinions and scientific research related to expected impacts of forest management activities on specific species. Was Plethodon	Consider additional	
1	cheoah the trigger for Designated Risk determination because it was one of those species for which it was not possible to determine	resources identified; note	
	threats from forest management activities? The sources of information in the NRA is listed as No. 21 (NatureServe Database) with no	that when available	
	specificity as to which portions of the information in the NatureServ database carried the most weight as "literature suggests"	information conflicts, the	
	• • • • • • • • • • • • • • • • • • • •	precautionary approach	
		should be used	Economic
	, , , , , , , , , , , , , , , , , , ,		
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	·		
		Review additional	
	· · · · · · · · · · · · · · · · · · ·		
	The state of the s	,	
		•	
			Economic
Q TC			Leonomie
2.46	· · · · · · · · · · · · · · · · · · ·		Economic
J 40	woodpecker has not had a committee signting since the mid-1540s according to Nature Serve.	two decades	LCOHOTTIC
Q 4c	Not that we are aware of.		Economic
<u>a</u>	). 4c	cheoah the trigger for Designated Risk determination because it was one of those species for which it was not possible to determine threats from forest management activities? The sources of information in the NRA is listed as No. 21 (NatureServe Database) with no specificity as to which portions of the information in the NatureServ database carried the most weight as "literature suggests" citation(s) regarding length of time for secondary growth in forests and population recovery of P. cheoah.  Overall, the depth of review for areas of specified risk is sorely lacking.  For an example of what should be done in the NRA, see NatureServe comments on Cheoah Bald Salamander regarding logging.  This species is listed in the table on page 95 of the NRA (see footnote 2) as the Priority Species of concern for the Appalachian Region. If you refer to the NatureServe database and review the detailed notes for this species, two expert opinions are noted in "Overall Threat Impact Comments" stating the following:  "a large amount of the habitat of this species is second-growth forest, so it seems capable of surviving logging and similar forms of habitat disturbance (Beamer, pers. comm., 2003). This and other Plethodon species can persist in relatively small patches of habitat (Beamer and Lannoo 2005)."  It is recommended that additional consideration be given to some of the specific information about each species in the NatureServe database beyond the initial two-step filtering described in the NRA. Species of concern risk determinations should take into account expert opinions and scientific research related to expected impacts of forest management activities on specific species. Was Plethodon cheoah the trigger for Designated Risk determination in because it was one of those species for which it was not possible to determine threats from forest management activities? The sources of information in the NRA is listed as No. 21 (NatureServe Database) with no specificity as to which portions of the information in the NatureS	"a large amount of the habitat of this species is second-growth forest, so it seems capable of surviving logging and similar forms of habitat disturbance (Beamer, pers. comm., 2003). This and other Plethodon species can persist in relatively small patches of habitat (Beamer and Lannoo 2005)."  It is recommended that additional consideration be given to some of the specific information about each species in the NatureServe database beyond the initial two-step filtering described in the NRA. Species of concern risk determinations should take into account expert opinions and scientific research related to expected impacts of forest management activities on specific species. Was Plethodon cheoah the trigger for Designated Risk determination because it was one of those species for which it was not possible to determine threats from forest management activities? The sources of information in the NRA is listed as No. 21 (NatureServe Database) with no specificity as to which portions of the information in the NRA is listed as No. 21 (NatureServe Database).  4c Overall, the depth of review for areas of specified risk is sorely lacking.  For an example of what should be done in the NRA, see NatureServe comments on Cheoah Bald Salamander regarding logging.  This species is listed in the table on page 95 of the NRA (see footnote 2) as the Priority Species of concern for the Appalachian Region. If you refer to the NatureServe database and review the detailed notes for this species, two expert opinions are noted in "Overall Threat Impact Comments" stating the following:  " a large amount of the habitat of this species is second-growth forest, so it seems capable of surviving logging and similar forms of habitat (Beamer and Lannoo 2005)."  It is recommended that additional consideration be given to some of the specific information about each species in the NatureServe database each pressure and Lannoo 2005)."  It is recommended that additional consideration be given to some of those species for which it was not possib

		We encourage FSC US to consider whether there are opportunities to address aspects of their methods. First, as acknowledged in the NRA (pg. 169), "One limitation of the NatureServe dataset is that it is driven by survey effort". In other words, surveys for species have not been conducted uniformly across the landscape. Therefore, areas may appear to have a high level of species richness relative to other areas in the landscape simply because of survey effort. We encourage FSC US to consider whether there are opportunities to weight the index based on survey effort. Second, the NRA (pg. 169) acknowledges that "this index is influenced by non-forest species." In other words, all species are included in the richness index including those associated with non-forest land covers. The NRA (pg. 169) assumes that "in areas that are predominately forested or forest matrix (and where forest management activities are more likely occurring) it should be representative of biodiversity in those areas." However, when selecting Priority Species for assessment in the NRA, the authors of the NRA appear to have filtered species based on their association with forests. Taking a similar approach for the analysis of the species richness index would strengthen the NRA  Also, in general, indicators of risk for Priority Species are conservation status ranks assigned by NatureServe and threats are derived from qualitative descriptions of threats prepared by conservation organizations and agencies. The designation of the Ivory Billed Woodpecker (Campephilus principalis) as a Priority Species is apparently the basis for the Specified Risk designation for HCV 1 in the Mississippi Alluvial region (NRA pg. 95). The last confirmed sightings of the Ivory Billed Woodpecker were in the 1940s in Louisiana, and	•	
		those sightings and there is no evidence that this species is extant. Even though this species has not been confirmed to exist, the NRA	number per data cell with which to work;	
		states that logging is among "historic major threats and would likely still be if the species is extant". Thus, the NRA assigns Specified Risk to this likely extinct species on the basis of a hypothetical threat, which is in turn used to assign Specified Risk to the Mississippi	discuss with WG filtering the HCV 1 species for	
			those that have been	
		focus on factors that potentially represent frequent, systemic, and pervasive risks to species and ecosystems, and to base the NRA on	documented within the	
R	CQ 4c	documented evidence that these factors are adversely affecting the species or ecosystem of interest.	last 20 years	Economic
			Note that we do not have	
			the resources to do this	
			for each species; discuss	
			with WG and recognize	
			the adaptive framework	
			of the NRA - new	
		It is unclear to me whether or not querying the database in a different manner could provide better results. I think the approach needs to		
		go beyond a simple data consultation and possibly include a review by a panel of wildlife biologists and conservation professionals in	incoporated into future	
R	CQ 4c	each region.	versions	Economic
			Discuss with WG filtering	
			the HCV 1 species for	
			those that have been	
		Something around when a species was last sighted? For instance, no one has seen an Ivory- Billed Woodpecker for a human generation	documented in the last	
R	CQ 4c	or more. Need to develop criteria around anomalies like this one.	two decades	Economic
x	CQ 4c	Perhaps. See note above		Economic
1.	10	- Chapping of the accident		20011011110
1	CQ 4c	Are the effects of complex wild-fires on habitat part of the criteria within the dataset?		Economic

			I	ı
R	CQ 4c	While it may inherently involve some subjectivity and expert judgment, it makes sense for the NRA to focus on species that are of particular conservation concern, of particular public profile, and that can serve as indicator and "umbrella" species for threatened ecosystems and biodiversity more generally.	Discuss with WG Discuss with WG filtering the HCV 1 species for those that have been	Environmental
		1	documented in the last	_
R	CQ 4c	species should be omitted.	two decades	Economic
R	CQ 4c	Regionally, there are species of particular public concern that could serve as indicators of forest health more broadly and, therefore, should be taken into consideration. Pacific salmonids could serve as such and indicator for the Western states.	Discuss with WG	Environmental
			Discuss with WG filtering	
			the HCV 1 species for	
			those that have been	
			documented in the last	
R	CQ 4c	Do not include species understood to be extinct.	two decades	Economic
			Note that we are unable	
			to manipulate the	
			dataset in the ways	
			suggested, because we	
			only have the index	
			number per data cell	
			with which to work; look	
		The Critical Biodiversity Areas could be refined by using a smaller unit of spatial analysis. Some of the CBAs are very large (i.e. large	for additional sources of	
		area in the Appalachians) and this scale of HCV designation makes it cumbersome and difficult to effectively address concerns and apply	information that may	
		mitigation measures.	provide rationale for	
		In addition, species richness index used to develop CBAs is influenced by non-forest species. Non-forest species were filtered out in	refining CBA and discuss	
R	CQ 4c	identifying specific HCV 1 species. Recommendation is to perform a similar filter before establishing CBAs.	with WG	Economic
			Consider refining risk	
		See comments above relative to methodology. Anything that can be done to refine and limit the defined geographic extent should be	areas when information	
R	CQ 4c	done.	is available	Economic
			Note that HCV 1 species	
		Suggest potentially cross-referencing with NatureServe G2, possibly G3 species and RTE lists, or elaborating on why these categories	are not the same thing as	
		· · · · · · · · · · · · · · · · · · ·	RTE species; discuss with	
R	CQ 4c	are not listed by state or federal T&E species lists, despite being at moderate risk of extinction.	WG	Environmental
		Lille the detector on tilling We have been using the Commence intent formers for any UCV 2 accessor to its entire in the Commence in the Comme		
_	60.5	I like the datasets you utilized. We have been using the Greenpeace intact forests for our HCV 2 assessments in our company risk		Faanam:-
А	CQ 5	assessments. It appears the working group did a great job in evaluating the sources of data and which should be used.		Economic

Α	CQ 5	Perhaps as this sort of analysis is unavoidably subjective. The evaluation applied here is reasonable and sufficient for its purpose.		Economic
		Could habitat useful for necessary and inevitable migration due to climate change be included in this category of HCV 2 areas? It is		
		consistent with the criteria of "smaller areas that provide key landscape functions". There exist many studies with simulated predictive		
R	CQ 5	movement patterns of RTE species, and I believe this data could augment existing data used in identifying HCV 2.	Discuss with WG	Environmental
х	CQ 5	Not that we are aware of.		Economic
Х	CQ 5	No		Economic
Α	CQ 5	I am not aware of any other datasets that could be used to improve the assessment; I believe it is adequate as is.		Economic
X	CQ 5	Not that we are aware of.		Economic
		At this time given what is available and the approach used in FSCUS FM standards I do not see additional data for HCV2 items changing		
Χ	CQ 5	at the coarse scale that the national risk assessment is looking at.		Economic
Α	CQ 5	Perhaps. This sort of analysis is unavoidably subjective. The evaluation applied here is reasonable and sufficient for its purpose.		Economic
_	CQ 5	NatureServe was/is a good starting point.		Social
Δ	CQ 5	The existing datasets were appropriate.		Economic
,	500 5	The entiting addition were appropriate.		20011011110
		US Forest Service Northwest Forest Plan monitoring and research shows increased spotted owl habitat and a significant 60-80 yr age		
		class bubble they expect to start providing increased old growth characteristics in the next 10-50 years. Their recent spotted owl	Review information and	
R	CQ 6	monitoring shows Oregon has seen increases in old growth conditions and spotted owl habitat already.	discuss with WG	Economic

	1	TFOF HCV 3 (Kare Ecosystems), the INKA considered three factors: old growth forest (including primary forest), foadless areas, and		
		Priority Forest Types. We offer comments addressing old growth forest and Priority Forest Types.		
		The state of the section of the se		
		Old Growth		
		The NRA (Pg. 110) indicates that there is Specified Risk on publicly-owned lands in the Pacific Coast and Rocky Mountain regions that		
		are not permanently protected (as demonstrated by GAP Status 1 & 2 areas in the U.S. Geological Survey's PAD US dataset). Publicly		
		owned lands that are permanently protected in the Pacific Coast and Rocky Mountain regions and privately owned lands are determined		
			Investigate alternative	
		, ,	methods for mapping	
			OG, additional	
			inforamtion sources	
			regarding threats to cove	
			sites; note that basic	
		, ,	ecology indicates that	
			changest to structure and	
			species composition will	
		, , , , , , , , , , , , , , , , , , , ,	affect biodiversity; note	
			that just because	
		catastrophic wildfires and especially climate change." While these factors may affect existing old-growth forests and the structure and	_	
		successional pathway of younger forests, they are unrelated to wood procurement. Because the stated focus of the NRA is to assess the	can be implemented in	
		risk of sourcing materials deemed unacceptable by FSC, factors such as management of young forests, climate change, pests, etc.	LSBH, doesn't mean is is	
		appear to be outside the scope of the NRA. Further, the designation of Specified Risk for all publicly owned forests in the Western U.S.	done consistently; find	
		that do not fall into Gap Status 1 or 2 will preclude the sorts of management actions that could enhance earlier old-growth development	additional information	
		from younger forests.	resources for LSBH	
			threats; discuss the	
R	CQ 6a			Economic
R	CQ 6a			Econon

		INO. It is very challenging to determine if these areas are addressed without understanding expected mitigation measures, is the intent		
		to eliminate logging from some of these areas? Two things for FSC to consider is (1) well-managed forests can provide both habitat		
		security and a proactive conservation effort for these areas and (2) FSC should ground truth these areas, particularly given the significant		
		impact on sourcing practices they will have given their scale, to determine if the identified specified risk areas are appropriate.		
		The main areas not appropriately addressed are:		
		Mesophytic Cove Sites - The Appalachian Mixed Mesophytic ecoregion is identified as a priority ecoregion for global conservation via the		
		WWF Global 200 ecoregional conservation priority setting and the WWF has assessed the conservation status of the ecoregion to be		
		"critical/endangered". It is not recognized in the Conservation International Biodiversity Hotspot assessment. It contains a portion of an		
		IUCN and Smithsonian Institution designated Centre of Plant Diversity within the eastern U.S. supply area, but does not overlap with		
		Frontier Forest or		
		Intact Forest. These areas need to delineated on maps – not just a line drawn around several states. There are literally thousands of	Note that ground-	
		cove sites within the Appalachian mountain region that are owned by thousands of public and private landowners.	truthing is not a	
		The WWF Global 200 includes the Appalachian Mixed Mesophytic Forests ecoregion due to the high species and generic richness of	reasonable expectation	
		temperate broadleaf trees, as well as understory plants, songbirds, salamanders, land snails, and beetles. Logging is identified as a	for this coarse-scale	
		primary threat. In order to address this threat in context of the ecoregion, it is valuable to understand (as did the previous FSC controlled	assessment; search for	
		wood standard) that that the ecoregion has an adequate level of protection through the analysis of a scientific approach of Conservation	additional information	
		Risk Index (CRI) which is at 1.06 and therefore, should not warrant a specified risk designation. The CRI evaluates percent converted and	sources for defining cove	
		percent protected thus achieving an acceptable Conservation Risk Index. (Hoekstra J, T Boucher, T Ricketts, C Roberts. 2005 "Confronting	sites and their threats;	
		a biome crisis: global disparities of habitat loss and protection." Ecology Letters, 8:23-29)	further evaluate threats	
		Bottomland Hardwoods (not late successional hardwoods)	to LSBH and review text	
		While these are more identifiable than cove sites, being able to identify "late successional" hardwoods is a problem since the age of	regarding harvesting	
		timber is not known for large swaths of bottomlands. Harvesting of bottomlands, contrary to what was in the risk assessment, is	practices; note that just	
		generally carried out in drier conditions to facilitate ease of harvest and to keep the land in good shape for regrowth.	because LLP is increasing,	
		Longleaf Pine We disagree with the FSC assessment that "major threats to the remaining ecoregional conservation values of "native	this doesn't mean it's not	
		longleaf pine include conversion to pine plantations". In the long term historical context, this was a contributing factor, however in the	rare; discuss above and	
R,E	CQ 6a	most recent 15-year period, the acreage of longleaf pine has increased considerably up to nearly 5 million acres. What data is being	comments with WG	Economic
		That's a big question. From at least a regional scale, it seemed to hit all the significant ecosystems that I know of in the US that have		
Δ	CQ 6a	greater levels of biodiversity (i.e. Appalachian mountains; Siskiyou; etc).		Economic
,,	CQ 00	The NRA and supporting documents fail to point out logistical and technological limitations for mills handling and processing old-growth		Economic
		logs. This might be worth mentioning.		
		The rationale for making a determination of 'specified risk' for public land old growth does not seem to take into affect the amount of		
		protected old-growth in wilderness area, parks, etc and what the National Forests are actually doing in terms of protection and logging		
		management. Vermont as an example has done no logging in the Green Mountain National Forest for many, many years. This may be		
		the case in other States where the actual threat of logging of public land old-growth is very low.		
		The mesophytic cove sites as outlined in the maps seems to indicate that these occur everywhere in Appalachia and are not specific		
			Look for additional	
		and State forest and environmental agencies to determined what has been done on a State-by-State basis. Same with longleaf pine and		
R	CQ 6a	bottom land hardwood forests.	then discuss with WG	Economic
L.,	100,00	assistant terra meneral source to the control of th	discuss with wy	

		I'm not aware of any significant HCV areas missed by the methodology. However the designation of Mesophytic Cove Sites as HCFs does		
		not align with on-the-ground reality. While I know of no such study, a modest effort to assess how much of this type is located on		
		federal lands protected from any harvest, federal lands subject to modern forestry practices, and other types of conservation land would		
		show that that there is low risk that this type will be diminished by forest management at a landscape scale. Threats are site-specific		
		and localized.		
		The designation of Late Successional Bottomland Hardwoods in the Southeast/Mississippi Alluvial Valley regions appears to be a		
		political decision. The research cited by other commenters (NCASI) shows that these sites are resilient. An arbitrary 80-year cut-off		
		penalizes landowners who have chosen to grow their timber to larger sizes. These forests regrow after harvesting. Citations of priority	Look for additional	
		forest types from Wildlife Action Plans are particularly problematic. There are similar designations in Wildlife Action Plans throughout	information sources and	
R	CQ 6a	the nation, yet most such areas did not become selected as specified risk. The decision to apply a specified risk designation for risk to Old Growth forests only on publicly-owned forests in the west is troubling.	then discuss with WG	Economic
		The statement "Forest management policies and the resulting activities are threats to old growth forests" is highly subjective and		
		potentially misleading. Discussion within the "threat assessment" section points to the very complex serious of land management policy		
		challenges facing the western regions. The relevance of wood procurement (i.e. for controlled wood) is not clear at all. The fact that		
		primary threats to Old Growth forests might be caused by inactivity by land managers is largely ignored.	Provide better rationale	
			for priority forest types;	
		public at large and the political system. This policy format is far from ideal, but far more broadly based and responsive than the FSC	investigate alternative	
		system. Federal lands are some of the most heavily regulated areas for timber management in the nation, with laws including the	methods for mapping	
		National Forest Management Act and National Environmental Policy Act. Timber sales are developed in accordance with forest	OG, additional	
		management plans and undergo rigorous environmental reviews, with stakeholder input and the opportunity for parties to appeal the	inforamtion sources	
		decisions made by the Forest Service and Bureau of Land Management, and ultimately, challenge the decisions in court.	regarding threats to OG	
		Additionally, State and Municipal lands have similar regulations and oversight as they are owned by public entities. Designating risk on	and cove sites; note that	
			basic ecology indicates	
		as trusts for schools with timber sales providing funding for local school districts.	that changest to	
		As for Priority Forest Types, many of these forest types are overly broad and have vague definitions as to what areas may or may not be	structure and species	
		included in them. There is also a lack of clarity around the scientific basis for the designations of these forest types.	composition will affect	
		Additionally as a NCASI member, we rely heavily on their scientific expertise and evaluation of the draft NRA. We therefore will also	biodiversity; note that	
		incorporate NCASI comments below on this question.	just because sustainable	
		Old-Growth Forest	management be	
		The NRA (pp 199-200) includes a map for the western U.S. that shows essentially all forest land in the region as potentially having old	implemented in LSBH,	
		growth. It is unclear whether the map excludes public forests in Gap Status 1 & 2. While we are unaware of any published map of old-	doesn't mean is is done	
		growth forest per se, designating Specified Risk for all publicly owned forests in the Western U.S. that do not fall into Gap Status 1 or 2	consistently find	
		implies that sourcing wood from all public lands is problematic. Many public lands provide timber from forests that are not old growth	additional information	
		and many forests classified as Gap Status 3 are managed under rigorous state and federal standards. We encourage FSC US to use a	resources for LSBH	
		finer resolution when identifying areas where harvest from old-growth forests could occur.	threats; discuss the	
D -	CQ 6a	, <del>,</del>	above with the WG	Faanamia
R,E	CQ ba	The NRA (pg. 111) also indicates that "[in] the western conterminous U.S., threats to old-growth forests include a lack of managing	above with the WG	Economic
		There are logistical and technological limitations for mills to be able to handle and process old-growth logs. The NRA and supporting		
		documents fail to point this out and this certainly might be worth mentioning.	Revisit evidence and	
		The concept of "a lack of managing younger forests with a goal of creating old growth forests" is simply beyond the scope of anything	rational for OG specified	
R	CQ 6a	that CW should be. This is appropriate solely for FSC FM certification.	risk; discuss with WG	Economic
L		1. Contract of the state of the	,	

		Juia-Growth Forest	T	
		The NRA (pp 199-200) includes a map for the western U.S. that shows essentially all forest land in the region as potentially having old		
		growth. It is unclear whether the map excludes public forests in Gap Status 1 & 2. While we are unaware of any published map of old-		
		growth forest per se, designating Specified Risk for all publicly owned forests in the Western U.S. that do not fall into Gap Status 1 or 2		
		implies that sourcing wood from all public lands is problematic. Many public lands provide timber from forests that are not old growth		
		and many forests classified as Gap Status 3 are managed under rigorous state and federal standards. We encourage FSC US to use a	Review additional	
		finer resolution when identifying areas where harvest from old-growth forests could occur.	inforamtion sources;	
		The NRA (pg. 111) also indicates that "[in] the western conterminous U.S., threats to old-growth forests include a lack of managing	investigate alternative	
		younger forests with a goal of creating old-growth	methods for mapping	
		, ,	OG, additional	
		While these factors may affect existing old-growth forests and the structure and successional pathway of younger forests, they are	information sources	
		unrelated to wood procurement. In fact, the NRA (pg. 111) notes that "the most significant current threats may not be due directly to	regarding threats to cove	
		logging/harvest". Because the stated focus of the NRA is to assess the risk of sourcing materials deemed unacceptable by FSC, factors	sites; note that basic	
		such as management of young forests, climate change, pests, etc. appear to be outside the scope of the NRA. Further, the designation	ecology indicates that	
		of Specified Risk for all publicly-owned forests in the Western U.S. that do not fall into Gap Status 1 or 2 will preclude management	changest to structure and	
		actions that could enhance earlier old growth development from younger forests.	species composition will	
		Priority Forest Types: Mesophytic Cove Sites	affect biodiversity; note	
		The NRA identifies a broad geographic area as having Specified Risk for Mesophytic Cove Sites. This area appears to include portions of	that just because	
		several ecological regions (e.g., Appalachian Highlands, Coastal Plain, Interior Plateaus) that vary in terms of biophysical factors that	sustainable management	
			can be implemented in	
		Risk for this Priority Forest Type to omit areas with little potential to include the two ecological systems related to this Priority Forest	LSBH, doesn't mean is is	
		Type, i.e., South Central Interior Mesophytic Forest (CES 202.887) and Southern and Central Appalachian Cove Forest (CES 202.373).	done consistently find	
		With respect to Mesophytic Cove Sites, the NRA (pg. 205) states that "threats also include incompatible forest management that results	1	
		in alterations to the structure and composition of the forest or conversion to other forest types (white pine), climate change, chronic	resources for LSBH	
		deer herbivory, harvesting of herbs and pollution." It further states (pg. 205) that forestry practices can "affect herbaceous species	threats; discuss the	
R	CQ 6a	composition or abundance and therefore the quality and functioning of the system." Thus, the NRA appears to consider changes in forest	7	Economic
N	CQ 0a	Composition of abundance and therefore the quanty and functioning of the system. Thus, the NKA appears to consider changes in forest	above with the WG	LCOHOITIC
Α	CQ 6a	To my knowledge, this encompasses the necessary components of rare domestic ecosystems.		Environmental
	00.6	We have concern that risk to old growth is defined on all public land in the western United States. Please reference comments from		<u> </u>
K	CQ 6a	NCASI and AF&PA on this topic.	Discuss with WG	Economic

R	CQ 6a	Comment:  The draft NRA lists several threats to old growth in the Pacific Coast and Rocky Mountain regions: lack of managing younger forests with a goal of creating old growth forests, invasive species, pests, pathogens, forest fragmentation, fire suppression, catastrophic wildfires, and climate change. All of these are threats to old growth that currently exists on the landscape with the exception of "lack of managing younger forests with a goal of creating old growth", which is a threat to the development of future old growth. This distinction is important in accurately identifying risk. It raises the question of whether the threat of younger forests managed without an old growth goal should be considered in the NRA process, because harvesting timber from younger forests does not threaten existing HCVFs.  We also disagree with the assertion that lack of managing young forests with an old growth trajectory is a threat specific to public lands, as young forest exists across all ownership types in the Pacific Coast Region (and across the country). Private industrial forestland is often managed under shorter rotations to maximize revenue, whereas public lands are typically managed using longer rotations and to achieve multiple objectives. Therefore, at any given time, there is likely to be a higher proportion of younger forest not being managed with an old growth goal on private industrial ownerships, relative to public lands. Furthermore, restricting the 'specified risk' designation to public lands creates an incentive for purchasers to source primarily from private forestland, thereby perpetuating the threat of managing younger forests without a goal of creating old growth.	Discuss OG designation, rationale and specified risk area (as appropriate) with WG	Economic
R,E	CQ 6a	The NRA and supporting documents fail to point out logistical and technological limitations for mills handling and processing old-growth logs. This might be worth mentioning.  The concept of "a lack of managing younger forests with a goal of creating old growth forests" is simply beyond the scope of anything that CW should be. This is appropriate solely for FSC FM certification.  On page 110/111, the sentence "Based upon the above datalayers, the NRA WG concluded that old growth has a high enough likelihood of occurrence on public lands, but outside of protected areas in the Pacific Coast and Rocky Mountain regions (see Annex B for FSC regions) to consider these lands further for the purposes of this NRA." is punctuated differently than on pg 199, where the same sentence exists. As punctuated on 110/111, the sentence makes no sense.  Additionally, pg 199 supposedly outlines the rationale for making a determination of 'specified risk' for public land old growth, however the statements included in that section are significantly lacking in depth, and it is unclear why any portion of old growth is held to a different standard than any other portion of old growth. It appears to be a completely arbitrary distinction on the part of the working group.	Fix punctuation on pp 110 111; look for additional information sources and re-assess OG then discuss with WG	Economic

R,E	CQ 6a	The NRA and supporting documents fail to point out logistical and technological limitations for mills handling and processing old-growth logs. This might be worth mentioning.  The concept of "a lack of managing younger forests with a goal of creating old growth forests" is simply beyond the scope of anything that CW should be. This is appropriate solely for FSC FM certification.  On page 110/111, the sentence "Based upon the above datalayers, the NRA WG concluded that old growth has a high enough likelihood of occurrence on public lands, but outside of protected areas in the Pacific Coast and Rocky Mountain regions (see Annex B for FSC regions) to consider these lands further for the purposes of this NRA." is punctuated differently than on pg 199, where the same sentence exists. As punctuated on 110/111, the sentence makes no sense.  Additionally, pg 199 supposedly outlines the rationale for making a determination of 'specified risk' for public land old growth, however the statements included in that section are significantly lacking in depth, and it is unclear why any portion of old growth is held to a different standard than any other portion of old growth. It appears to be a completely arbitrary distinction on the part of the working group.	Fix punctuation on pp 110 111; look for additional information sources and re-assess OG then discuss with WG	Economic
R,E	CQ 6a	characteristics such as diverse species, canopy structure, and age classes.  Mesophytic cove sites will also cause issues with sourcing in the Appalachian Region. These areas are by their nature the most productive and most lucrative for harvesting. It will be difficult to exclude these areas or properly implement control measures in the cove sites. Stakeholders will also need to be clear on the difference between a mesophytic cove site and a yellow-poplar grove.	Look for alternative methods for identifying OG specified risk and discuss with WG; clarify difference between cove sites and yellow-poplar groves	Economic
X	CQ 6a	It is unclear how the datasets are relevant to the conclusion		Economic
R	CQ 6a	Global, regional or national is a scale that is nearly impossible to pin down. Most would be alt least regional, but national or global could be questioned. This should not be identified as forest types, ie the definition for bottom land hardwoods as old growth or the mesphytic cove sites. The forests in questions need to be clearly delineated. Every state and the federal government have some level of information that identified RTE forests at the stand level. This is the data set that should be used. The alternative is that CHs are left trying to determine if anything else in their procurement basin may possibly fit into this.	Discuss with WG	Economic

		Enviva specific comments		
		Mesophytic Cove Sites		
		The listing of threats to this priority forest type does not relate to timber harvesting activity. The cited reason are driver then these		
		should be addressed in the appropriate venue.		
		Native Longleaf Pine Systems		
		The Longleaf Alliance notes there is an increase in longleaf pine acres and a strong wood market encourages landowners to replant this		
		specie. As noted by NCASI these systems have the same diversity regardless of the pine specie planted.		
		https://www.longleafalliance.org/what-we-do/restoration-management/alr		
		Enviva supported NCASI comments		
		Old-Growth Forest	Note that recent and	
		The NRA (pp 199-200) includes a map for the western U.S. that shows essentially all forest land in the region as potentially having old	future predicted	
		growth. It is unclear whether the map excludes public forests in Gap Status 1 & 2. While we are unaware of any published map of old-	increases in extent of	
		growth forest per se, designating Specified Risk for all publicly owned forests in the Western U.S. that do not fall into Gap Status 1 or 2	LSBH and LLP do not	
		implies that sourcing wood from all public lands is problematic. Many public lands provide timber from forests that are not old growth	mean they are not rare;	
		and many forests classified as Gap Status 3 are managed under rigorous state and federal standards. We encourage FSC US to use a	note that while	
		finer resolution when identifying areas where harvest from old-growth forests could occur.	sustainable mgmt may	
		The NRA (pg. 111) also indicates that "[in] the western conterminous U.S., threats to old-growth forests include a lack of managing	be possible in LSBH, this	
		younger forests with a goal of creating old-growth forests, invasive species, pests, pathogens, forest fragmentation, fire suppression,	does not mean that is	
		catastrophic wildfires and especially climate change." While these factors may affect existing old-growth forests and the structure and	consistently	
		successional pathway of younger forests, they are unrelated to wood procurement. In fact, the NRA (pg. 111) notes that "the most	implemented; investigate	
		significant current threats may not be due directly to logging/harvest". Because the stated focus of the	alternative methods for	
		NRA is to assess the risk of sourcing materials deemed unacceptable by FSC, factors such as management of young forests, climate	mapping OG specified	
		change, pests, etc. appear to be outside the scope of the NRA. Further, the designation of Specified Risk for all publicly-owned forests in	risk; look for additional	
		the Western U.S. that do not fall into Gap Status 1 or 2 will preclude management actions that could enhance earlier old growth	sources of information	
		development from younger forests.	and then discuss with	
R	CQ 6a	Priority Forest Types: Mesophytic Cove Sites	WG	Economic
		Glatfelter incorporates by reference the set of comments submitted by the National Council for Air and Stream Improvement (NCASI) on		
R	CQ 6a	this question.	Discuss with WG	Economic

CQ 6a

TOIG-Growth Forest

The NRA (pp 199-200) includes a map for the western U.S. that shows essentially all forest land in the region as potentially having old growth. It is unclear whether the map excludes public forests in Gap Status 1 & 2. While we are unaware of any published map of old-growth forest per se, designating Specified Risk for all publicly owned forests in the Western U.S. that do not fall into Gap Status 1 or 2 implies that sourcing wood from all public lands is problematic. Many public lands provide timber from forests that are not old growth and many forests classified as Gap Status 3 are managed under rigorous state and federal standards. We encourage FSC US to use a finer resolution when identifying areas where harvest from old-growth forests could occur.

The NRA (pg. 111) also indicates that "[in] the western conterminous U.S., threats to old-growth forests include a lack of managing younger forests with a goal of creating old-growth forests, invasive species, pests, pathogens, forest fragmentation, fire suppression, catastrophic wildfires and especially climate change." While these factors may affect existing old-growth forests and the structure and successional pathway of younger forests, they are unrelated to wood procurement. In fact, the NRA (pg. 111) notes that "the most significant current threats may not be due directly to logging/harvest". Because the stated focus of the NRA is to assess the risk of sourcing materials deemed unacceptable by FSC, factors such as management of young forests, climate change, pests, etc. appear to be outside the scope of the NRA. Further, the designation of Specified Risk for all publicly-owned forests in the Western U.S. that do not fall into Gap Status 1 or 2 will preclude management actions that could enhance earlier old growth development from younger forests.

Priority Forest Types: Mesophytic Cove Sites

The NRA identifies a broad geographic area as having Specified Risk for Mesophytic Cove Sites. This area appears to include portions of several ecological regions (e.g., Appalachian Highlands, Coastal Plain, Interior Plateaus) that vary in terms of biophysical factors that influence occurrence of Mesophytic Cove Sites. The NRA could be strengthened by refining their delineation of the area having Specified Risk for this Priority Forest Type to omit areas with little potential to include the two ecological systems related to this Priority Forest Type, i.e., South Central Interior Mesophytic Forest (CES 202.887) and Southern and Central Appalachian Cove Forest (CES 202.373). With respect to Mesophytic Cove Sites, the NRA (pg. 205) states that "threats also include incompatible forest management that results in alterations to the structure and composition of the forest or conversion to other forest types (white pine), climate change, chronic deer herbivory, harvesting of herbs and pollution." It further states (pg. 205) that forestry practices can "affect herbaceous species conversion to other forest types (white pine), climate change, chronic additional information resources for LSBH composition or abundance and therefore the quality and functioning of the system." Thus, the NRA appears to consider changes in forest that just because sustainable management that just because sustainable management can be implemented in LSBH, doesn't mean is done consistently; find additional information resources for LSBH threats; discuss the structure as a threat to this Priority Forest Type but presents no supporting scientific evidence. Harvesting cove sites can increase

Review additional information sources; investigate alternative methods for mapping OG, additional inforamtion sources regarding threats to cove ecology indicates that changest to structure and species composition will affect biodiversity; note that just because sustainable management can be implemented in LSBH, doesn't mean is is additional information resources for LSBH above with teh WG

Economic

	ı	TWITH TESPECT TO IMESOPHYTIC COVE SITES, THE INKA (pg. 205) STATES THAT THREATS ALSO INCIDIDE INCOMPATIBLE TOTEST MANAGEMENT THAT TESUITS		
		in alterations to the structure and composition of the forest or conversion to other forest types (white pine), climate change, chronic		
		deer herbivory, harvesting of herbs and pollution." It further states (pg. 205) that forestry practices can "affect herbaceous species		
		composition or abundance and therefore the quality and functioning of the system." Thus, the NRA appears to consider changes in		
		forest structure as a threat to this Priority Forest Type but presents no supporting scientific evidence. Again, some of the issues		
		identified as threats (e.g., deer herbivory, climate change, harvesting of herbs, pollution) appear to be outside the scope of an		
		assessment of risk associated with sourcing wood. It is unclear how a certificate holder could confirm that wood sourced from this		
		Priority Forest Type is acceptable.	Review additional	
		For several CBAs, the NRA suggests that forest management is adversely affecting biodiversity values associated with native longleaf	inforamtion sources;	
		pine forests. For example, in the threat assessment for the Cape Fear Arch CBA, the NRA states that "Longleaf pine biodiversity values	investigate additional	
			inforamtion sources	
		management techniques, including herbicide application that have the potential to inhibit native understory communities" (pg. 102).	regarding threats to cove	
		Similar statements are included in the threat assessments for the Florida Panhandle CBA (pg. 102), the Southern Appalachians CBA (pg.	sites; note that basic	
		101), and the Native Longleaf Pine Systems Priority Forest Type (pg. 115).	ecology indicates that	
		101), and the Native Longicus Finding Porest Type (pg. 113).	changest to structure and	
		Over the last several decades, many conservation programs and initiatives have supported efforts to increase the area of longleaf pine	species composition will	
			'	
		forest in the Southeast and enhance the value of pine forests for species associated with open pine forests. Examples include the	affect biodiversity; note	
		Longleaf Alliance, America's Longleaf Restoration Initiative, the American Forest Foundation Habitat Credit Trading Program, the	that just because	
		Conservation Reserve Program, the Wildlife Habitat Incentive Program, the Environmental Quality Incentives Program, the American	sustainable management	
		Reinvestment and Recovery Act, and others. As a result, the area in longleaf pine forest type and longleaf dominated forests have been	can be implemented in	
		increasing for more than 15 years (Appendix A). At present, there are an estimated 4.7 million acres in longleaf-dominated forests	LSBH, doesn't mean is is	
		(personal communication; Robert Abernethy, Longleaf Alliance). Area in the longleaf pine forest type increased by 8% between 2010	done consistently find	
		and 2016 (Figure C1 in Appendix A).	additional information	
			resources for LSBH	
		We encourage FSC to consider that communities can be very similar between pine stands with overstories dominated by longleaf pine	threats; discuss the	
R	CQ 6a	or other pine species. In south Georgia, Hedman et al. (2000) characterized plant communities in 49 plots located in forest stands with	above with teh WG	Economic
Α	CQ 6a	I am unaware of any additional forested ecosystems in the contiguous US that could be added to the list		Economic
		AF&PA incorporates by reference the comments submitted by NCASI on this question.		
		Public Lands: AF&PA is concerned by the indication of risk on federal lands in the western U.S. FSC-US states several potential threats		
		to old growth including invasive species, pests, pathogens, forest fragmentation, fires suppression, and catastrophic wildfires. For a		
		number of these threats, including fire suppression, pathogens, and wildfires, active mechanical management can reduce these threats,		
		not increase them. Furthermore, federal lands, and in particular the U.S. Forest Service, have adopted restoration focused logging and		
		harvest methods in coordination with collaboratives using stewardship contracting that work to accomplish multiple objectives while		
		providing fiber to local wood product facilities.		
		Federal lands are some of the most heavily regulated areas for timber management in the nation, with laws including the National		
		Forest Management Act and National Environmental Policy Act. Timber sales are developed in accordance with forest management		
		plans and undergo rigorous environmental reviews, with stakeholder input and the opportunity for parties to appeal the decisions made		
		by the Forest Service and Bureau of Land Management, and ultimately, challenge the decisions in court.		
		Additionally, state and municipal lands have similar regulations and oversight as they are owned by public entities. Designating risk on		
		state lands can have negative effects on the social structures of communities that surround them, as, for example, many state lands are	1 1 6 1 1999	
		set up as trusts for schools with timber sales providing funding for local school districts.	Look for additional	
		Priority Forest Types: As noted by NCASI, many of these forest types are overly broad and have vague definitions as to what areas may	information sources and	
R	CQ 6a	or may not be included in them. There is also a lack of clarity around the scientific basis for the designations of these forest types.	then discuss with WG	Economic

R	CQ 6a	AFRC incorporates by reference the comments submitted by NCASI on this question.  Public Lands: AFRC is concerned by the Indication of risk on federal lands in the western U.S. FSC-US states several potential threats to old growth including invasive species, pests, pathogens, forest fragmentation, fires suppression, and catastrophic wildfires. For a number of these threats including fire suppression, pathogens, and wildfires, active management — including timber harvest — can reduce these threats, not increase them. Furthermore, federal lands, and in particular the U.S. Forest Service, have adopted restoration focused logging and harvest methods in coordination with collaboratives using a variety of contract mechanisms that work to accomplish multiple objectives while providing fiber to local wood product facilities.  Federal lands are some of the most heavily regulated areas for timber management in the nation, under laws including the National Forest Management Act and National Environmental Policy Act (among many others) and attendant regulations. Timber sales are developed in accordance with forest land and resource management plans and undergo rigorous environmental reviews, with stakeholder input and the opportunity for parties to appeal the decisions made by the Forest Service and Bureau of Land Management, and ultimately, challenge the decisions in court. Most of the governing forest plans contain restrictions on how harvest may affect old growth and/or late-successional forest types. In areas covered by the Northwest Forest Plan, for example, over 7.4 million acres, or 30% of the plan area, were set aside as "Late Successional Reserves" with significant restrictions on timber harvest. This plan, as well as all other forest plans in the Northwest, was found not to appreciably reduce the likelihood of survival and recovery of species, such as the northern spotted only, which are associated with late-successional ecosystems. To state that harvest from these areas carries risk to old growth is not supporte	Look for additional information sources and then discuss with WG  Investigate elevation as a criteria for Cove site specified risk area; investigate additional sources and then discuss with WG	Economic
R	CQ 6a	The mask adalogy and agreement to the initial NDA makes agree	with WG	Economic
		The methodology used compared to the initial NRA makes sense.		
		Further removal of non-forest areas where possible should occur to better align where the risks are identified compared to not present. As an example the mesophytic cove site map can be edited to only show potential risk where forested areas are present and major non forest areas can be removed.	Discuss with WG - need to be consistent with	
R		If regional meetings discussion outcomes are that risks are more centered in certain areas the flexibility to revise NRA mapped items should be present as part of concentrating mitigation efforts in only the areas where mitigation is needed.	broad specified risk areas in the western states	Economic
11	CQ 00	product be present as part or concentrating integration errors in only the areas where integration is needed.	in the western states	LCGHOHHC

R	CQ 6a	The decision to apply a "specified" risk designation for risk to Old Growth forests only on publicly-owned forests in the west is somewhat troubling. The statement "Forest management policies and the resulting activities are threats to old growth forests" is highly subjective and potentially misleading. Discussion within the "threat assessment" section points to the very complex serious of land management policy challenges facing the western regions. The relevance of wood procurement (i.e. for controlled wood) is not clear at all. The fact that primary threats to Old Growth forests might be caused by inactivity by land managers is largely ignored. By definition, public land managers in the US are directly accountable to their respective branches of government, and ultimately to the public at large and the political system. This policy format is far from ideal, but far more broadly based and responsive than the FSC system.	Look for additional information sources and then discuss with WG	Economic
^	CO Co	The logic for the methodology year is count		Faanamia
A	CQ 6a	The logic for the methodology used is sound.		Economic
		The fact that there is no consistent database for roadless areas across all ownerships and landscapes in the US should not preclude them from being addressed where important and feasible. Perhaps contrary to the NRA's claim at page 111, the prior incarnation of the WG, when faced with the limitations of the datasets described at page 111, did not conclude that roadless area consideration should be limited to inventoried roadless areas on National Forests. Rather, the prior WG concluded that the risk of unprotected roadless areas is greatest on National Forests and Bureau of Land Management (BLM) forests, inclusive of but not limited to inventoried areas. Meanwhile, the suggestion at page 112 that relatively few BLM Wilderness Study Areas (WSAs) exist in forest zones should not preclude recognition for those WSAs that are forested, nor should it preclude recognition for other roadless areas in BLM forests.  At a minimum, the NRA should be revised to recognize the risk to roadless areas on National Forests and BLM forests, for roadless areas of 1,000 acres in size, including but not limited to those that are inventoried or designated as WSAs. Indeed, those that are not inventoried by the Forest Service or designated as WSAs by the BLM are probably at greatest risk from road construction, commercial logging, and other harmful development. Meanwhile, 1,000 acres is a threshold commonly cited by ecologists and forest conservation organizations, including in comments that FSC US has previously received from conservation organizations during the NRA process. If the Forest Service or BLM do not have adequate data sources for these uninventoried/undesignated areas, then at a minimum, local and regional conservation organizations can be consulted to help identify them.  Likewise, the NRA should be revised to recognize that while the Roadless Rule for National Forest lands has been relatively effective, it does not constitute permanent protection, and also does not provide any protection to uninventoried roadless areas on		
		Old Growth  To its gradit, the NDA still flags and growth in the Positic Coast and Positics Degions as being at rick.	Outreach to expert	
		To its credit, the NRA still flags old growth in the Pacific Coast and Rockies Regions as being at risk.	identified, look for additional information	
R	CQ 6a	However, some of the NRA's language on old growth (at page 111) incorrectly dismisses logging-related threats and calls for	sources; discuss with WG	Environmental
		Because of the work created by a specified risk designation, we need a finer filter for areas shown as specified risk by the initial filter. A regional filter needs to be used to drill down where specified risk is shown.  An example of a regional "drill down" is illustrated in the Western US related to HCV. There is a significant body of literature tracking HCV related topics because of the Northwest Forest Plan. Researchers have published data we can use to help identify risk designations	Look for alternative methods for identifying	
D	CQ 6a	and researchers who are responsive and happy to answer question.	OG specified risk and discuss with WG	Social
IV	cu va		uiscuss with wd	Juliai

R	CQ 6a	WestRock incorporates by reference the comments submitted by NCASI on this question.  WestRock incorporates by below comments submitted by AF&PA on this question.  Public Lands: AF&PA is concerned by the indication of risk on federal lands in the western U.S. FSC-US states several potential threats to old growth including invasive species, pests, pathogens, forest fragmentation, fires suppression, and catastrophic wildfires. For a number of these threats including fire suppression, pathogens, and wildfires active mechanical management can reduce these threats, not increase them. Furthermore, federal lands, and in particular the U.S. Forest Service, have adopted restoration focused logging and harvesting methods in coordination with collaboratives using stewardship contracting that work to accomplish multiple objectives while providing fiber to local wood product facilities.  Federal lands are some of the most heavily regulated areas for timber management in the nation, with laws including the National Forest Management Act and National Environmental Policy Act. Timber sales are developed in accordance with forest management plans and undergo rigorous environmental reviews, with stakeholder input and the opportunity for parties to appeal the decisions made by the Forest Service and Bureau of Land Management, and ultimately, challenge the decisions in court.  Additionally, State and Municipal lands have similar regulations and oversight as they are owned by public entities. Designating risk on state lands can have negative impacts on the social structures of those communities that surround them, as many state lands are set up as trusts for schools with timber sales providing funding for local school districts.  Priority Forest Types: As noted by NCASI, many of these forest types are overly broad and have vague definitions as to what areas may or may not be included in them. There is also a lack of clarity around the scientific basis for the designations of these forest types.	Look for additional information sources and then discuss with WG	Economic
K	CQ 6a	or may not be included in them. There is also a lack of clarity around the scientific basis for the designations of these forest types.	then discuss with WG	Economic
R	CQ 6a	The concept of late seral forests = HCV is misguided to start with. If an ecosystem or forested area is rare or endangered, or has special habitat features, that's one thing, but to simply identify an entire age class structure as being HCV makes no sense.  The definition of Old growth is too subjective and open to misapplication, especially "Type 2 Old Growth", as this describes a great deal of mature forest in the western US. Surely all of these forests can't be HCV.  At this point, it seems clear that there is a strong desire for many areas of the US to be classified as HCVF. This is a subjective decision that is up to FSC, which is fine. It would be much better to simply state the fact that certain areas are considered HCVF, and avoid all the semantics of datasets and justification for why the areas are HCVF or not. At the end of the day, for areas designated as HCVF, what really matters, is what the Control Measures will be, as these are the drivers for Cert Holders going forward.	Discuss with WG	Economic
R	CQ 6a	While current protections afforded to HCV 3 forests on federal land are generally quite strong, they are not necessarily permanent. They have not all been inventoried, especially on private land, making their protection that much more difficult. Local and regional conservation organizations and land trusts should be able to help identify these places.	Discuss with WG	Environmental
		It appears that the designation of Mesophytic Cove Sites as HCFs does not align with on-the-ground reality. While we know of no such study, a modest effort to assess how much of this type is located on federal lands protected from any harvest, federal lands subject to modern forestry practices, and other types of conservation land would show that that there is low risk that this type will be diminished by forest management at a landscape scale. Threats are site-specific and localized.  The designation of Late Successional Bottomland Hardwoods in the Southeast/Mississippi Alluvial Valley regions appears to be a political decision. The research cited by other commenters (NCASI) shows that these sites are resilient. An arbitrary 80-year cut-off penalizes landowners who have chosen to grow their timber to larger sizes. These forests regrow after harvesting. Citations of priority forest types from Wildlife Action Plans are particularly problematic. There are similar designations in Wildlife Action Plans throughout	Look for additional information sources and	
R	CQ 6a	the nation, yet most such areas did not become selected as specified risk.	then discuss with WG	Economic

			Lands Committee and	
			Look for additional	
			information sources that	
		that they "were developed by the original Controlled Wood Working Group (NRA WG) using the FSC US Forest Management Standard as		
		· · · · · · · · · · · · · · · · · · ·	identificaiton; note that	
			while these forest types	
			can be successfully	
			managed, doesn't mean	
R	CQ 6a	Also, protection of a seral stage, i.e. late successional bottomland hardwoods, needs further justification.	tha they are consistently	Economic
		A number of the HCV 3 areas are of particularly significant concern.		
		Old growth – The defined area must be re-evaluated and be greatly refined and limited. It is arbitrary to include all public lands not		
		already protected. The definition of old growth forests as defined by FSC is vague, subjective, and open to interpretation that can		
		include any stand of timber, managed or unmanaged, that is in late seral succession. Exclusion of this source could have significant		
		adverse social and economic impacts, as these forestlands are a significant source of fiber for mills in the 2 regions. For example,		
		Washington and Idaho state public forest lands are endowment lands used to generate income for state purposes, most notably school		
		funding. These lands are managed as such, to generate income, not to recruit old growth forests. It is interesting, and seemingly		
		contradictory that both fire suppression and catastrophic wildfire are listed as threats. Likewise, both forest management activities and		
		the lack of them (with respect to managing younger forests with the goal of creating old growth) are listed as threats. Without fire		
		suppression efforts and/or forest management activities, it can be argued that those forests adjacent to "old growth forest," which		
		could contain an overabundance of fuel, increases the likelihood of a catastrophic wild fire which could destroy all adjacent stands, not		
		just "old growth." This includes neighboring landowners and structures. There are multiple sources that state certain forest		
		management activities do mimic natural fires. To conclude categorically that management activities do not mimic fire is, at best,		
		misleading. The most significant threat listed is climate change, which well beyond the scope or control of wood sourcing activities.		
		Finally, it should be noted that public lands in the 2 regions, both federal and state, are managed under very strict federal and state		
		agency oversight, and that includes significant public stakeholder input that must be considered.		
		Longleaf Pine – This category should be deleted from the HCV 3 specified risk designation. The NRA states on page 209 that this "type		
		has been reduced to less than 5% of its original range" and that "this system is one of the most rare in the world." The latter statement	Investigate alternative	
		· · · · · · · · · · · · · · · · · · ·	methods for mapping	
			OG, improve definition of	
		, , ,		
			cove sites; look for	
			additional information sources for cove site and	
	CO C =		LSBH and then discuss	F
К	CQ 6a	with resulting requirements that could be practically implemented, or not.	with WG	Economic
Α	CQ 6a	Yes, at this time feel these categories are adequate.		Environmental
			Look for additional	
			information sources and	
R	CQ 6b	Based on our reading of this section, we believe that significantly more research needs to be conducted for specified risk areas.	then discuss with WG	Economic
Х	CQ 6b	No available free public data sources.		Economic

		WWF Ecoregion definition and information.     Forest, woodland, or mangrove ecoregions identified by WWF as a Global 200 Ecoregion and assessed by WWF as having a conservation status of endangered or critical. If the Global 200 Ecoregion comprises more than a single terrestrial ecoregion, an ecoregion within the Global 200 Ecoregion can be considered low risk if the sub-ecoregion is assessed with a Conservation Status other than "critical/endangered."		
		<ul> <li>Regions identified by the World Conservation Union (IUCN) as a Centre of Plant Diversity.</li> <li>Regions identified by Conservation International as a High Biodiversity Wilderness Area that contain contiguous forest ecosystems</li> </ul>		
		greater than 500 km2.	Assess information	
		• Regions identified by the World Resources Institute as a Frontier Forest.	available and discuss	
R	CQ 6b	Intact Forest Landscapes, as identified by Greenpeace.	with WG	Economic
x	CQ 6b	Not that I am aware of		Economic
	50,00			
		Overall, significantly more research needs to be conducted for specified risk areas.		
		For example, as was brought up in the FSC NRA overview webinar on February 20, 2018 related to Category 3, Indicator 3.3 HCV 3 and		
		Native Longleaf Pine systems, there was a certain amount of subjective judgement used for the Specified Risk determination. Although		
		there were no specific risks identified associated with harvest it was felt that there was enough concern about incompatible forest		
		management activities and forest type conversion to make the Specified Risk determination. While there has been a great deal of loss		
		of Native Longleaf Pine systems there is also a significant and building interest in increasing longleaf pine acreage in the SE U.S. There		
		are management plans and deliberate efforts underway to convert areas back to longleaf pine dominated systems and to manage what		
		is already in place to make it better (by introducing fire regimes onto the landscape, for example). Specifically, as noted in the Georgia		
		Forestry Commission's 2010 Statewide Assessment of Forest Resources, "Georgia and several other southern states are collaborating to reintroduce longleaf pine throughout its natural range". Additionally, groups like the Longleaf Alliance are involved in actively promoting		
		restoration and working with public and private landowners. Current and near-term restoration activities in the SE should be noted in the		
		NRA and be taken into consideration if control measures and mitigation are to be developed.		
		Same as with HCV1, State Wildlife Action Plans (SWAPs) are also variously referenced within the NRA and Annexes. These are very	Look for additional	
		important (and stakeholder developed!) resources that should be consulted and utilized as much as possible. They contain species	information sources and	
R	CQ 6b	information and detailed information about planned conservation activities in each state.	then discuss with WG	Economic
	200	Overall, significantly more research needs to be conducted for specified risk areas.	then discuss with We	Lecitornic
		In some instances, like with Native Longleaf Pine Systems, there was a certain amount of subjective judgement used for the Specified		
		Risk determination. Although there were no specific risks identified associated with harvest it was felt that there was enough concern		
		about incompatible forest management activities and forest type conversion to make the Specified Risk determination. This was		
		discussed in the FSC NRA overview webinar on February 20, 2018 related to Category 3, Indicator 3.3 HCV 3 and Native Longleaf Pine		
		systems.		
		It should also be noted that while there has been a great deal of loss of Native Longleaf Pine systems there is also a significant and		
		building interest in increasing longleaf pine acreage in the SE U.S. Groups like the Longleaf Alliance are involved in actively promoting		
		restoration and working with public and private landowners. Current and near-term restoration activities in the SE should be noted in the		
		NRA and be taken into consideration if control measures and mitigation are to be developed.		
		And, as noted with HCV1, State Wildlife Action Plans (SWAPs) are referenced within the NRA and Annexes. These are very important,	Look for additional	
		and stakeholder-developed, resources that should be consulted and utilized as much as possible. They contain species information and	information sources and	
R	CQ 6b	detailed information about planned conservation activities in each state.	then discuss with WG	Economic

	1			
x	CQ 6b	If so, they are beyond my familiarity		Environmental
R	CQ 6b	Overall, significantly more research needs to be conducted for specified risk areas.  For example, as was brought up in the FSC NRA overview webinar on February 20, 2018 related to Category 3, Indicator 3.3 HCV 3 and Native Longleaf Pine systems, there was a certain amount of subjective judgement used for the Specified Risk determination. Although there were no specific risks identified associated with harvest it was felt that there was enough concern about incompatible forest management activities and forest type conversion to make the Specified Risk determination. While there has been a great deal of loss of Native Longleaf Pine systems there is also a significant and building interest in increasing longleaf pine acreage in the SE U.S. There are management plans and deliberate efforts underway to convert areas back to longleaf pine dominated systems and to manage what is already in place to make it better (by introducing fire regimes onto the landscape, for example). Specifically, as noted in the Georgia Forestry Commission's 2010 Statewide Assessment of Forest Resources, "Georgia and several other southern states are collaborating to reintroduce longleaf pine throughout its natural range". Additionally, groups like the Longleaf Alliance are involved in actively promoting restoration and working with public and private landowners. Current and near-term restoration activities in the SE should be noted in the NRA and be taken into consideration if control measures and mitigation are to be developed.  Same as with HCV1, State Wildlife Action Plans (SWAPs) are also variously referenced within the NRA and Annexes. These are very important (and stakeholder developed!) resources that should be consulted and utilized as much as possible. They contain species information and detailed information about planned conservation activities in each state.	Look for additional information sources and then discuss with WG	Economic
R	CQ 6b	Overall, significantly more research needs to be conducted for specified risk areas.  For example, as was brought up in the FSC NRA overview webinar on February 20, 2018 related to Category 3, Indicator 3.3 HCV 3 and Native Longleaf Pine systems, there was a certain amount of subjective judgement used for the Specified Risk determination. Although there were no specific risks identified associated with harvest it was felt that there was enough concern about incompatible forest management activities and forest type conversion to make the Specified Risk determination. While there has been a great deal of loss of Native Longleaf Pine systems there is also a significant and building interest in increasing longleaf pine acreage in the SE U.S. There are management plans and deliberate efforts underway to convert areas back to longleaf pine dominated systems and to manage what is already in place to make it better (by introducing fire regimes onto the landscape, for example). Specifically, as noted in the Georgia Forestry Commission's 2010 Statewide Assessment of Forest Resources, "Georgia and several other southern states are collaborating to reintroduce longleaf pine throughout its natural range". Additionally, groups like the Longleaf Alliance are involved in actively promoting restoration and working with public and private landowners. Current and near-term restoration activities in the SE should be noted in the NRA and be taken into consideration if control measures and mitigation are to be developed.  Same as with HCV1, State Wildlife Action Plans (SWAPs) are also variously referenced within the NRA and Annexes. These are very important (and stakeholder developed!) resources that should be consulted and utilized as much as possible. They contain species information and detailed information about planned conservation activities in each state.	Look for additional information sources and then discuss with WG	Economic
D	CQ 6b	Does the US Forest Service or the Bureau of Land Management have their own designation of old growth? Are they similar to the old-growth requirements listed in the FSC-US standard?	Discuss with WC	Economic
117	ادر ۵۵	Browth requirements hated in the 130-03 attailuand:	Discuss with WG	Economic

			Look for additional	
			information sources and	
R	CQ 6b	State data sets should cover this.	then discuss with WG	Economic
N	CQ 0D	State data sets silodid cover triis.	their discuss with WG	LCOHOITIC
x	CQ 6b	   See answer above (Question 6, Part 1) and References section.		Economic
	CQ 05	As they relate to the specified risk associated with old growth in the Rocky Mountain and Pacific Coast Regions, it is unclear to me how		Leonomie
x	CQ 6b	the datasets referenced are relevant to the conclusion being offered.		Economic
	- CQ 05	the datasets referenced are relevant to the conclusion semigromered.		Leonomic
		FSC-US should clarify threats to HCV 4 from forest management activities and those from threats unrelated to forest management	Review text and clarify if	
F	CQ 6b	activities.	possible	Economic
	00,00		p 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	20011011110
		FSC-US should clarify threats to HCV 4-3 from forest management activities and those from threats unrelated to forest management	Review text and clarify if	
E	CQ 6b	activities.	possible	Economic
х	CQ 6b	At this time we are not aware of any.		Economic
	-			
х	CQ 6b	Perhaps. See note above		Economic
Х	CQ 6b	See above		Environmental
	-		Review additional	
			inforamtion sources and	
R	CQ 6b	Northwest Research Station.	discuss with WG	Social
			Review additional	
		USGS Land Cover Data Viewer	inforamtion sources and	
R	CQ 6b	https://gis1.usgs.gov/csas/gap/viewer/land_cover/Map.aspx	discuss with WG	Economic
		FSC-US should clarify threats to priority forest types, Mesophytic Coves from forest management activities and those from those	Review text and clarify if	
E	CQ 6b	unrelated to forest management activities	possible	Economic
			Contact experts iif	
		In the West, consultation with Drs. Norm Johnson (Professor Emeritus at Oregon State University) and Jerry Franklin (Professor at	possible and then discuss	
R	CQ 6b	University of Washington) could help locate most potential HCV 3 forests.	with WG	Environmental
			Consider alternative	
		Data sets for roadless areas and old growth seem appropriate. A finer-scale approach to Priority Forests, with attention to unique	methods for mapping	
		microclimates, would be more appropriate. Nature Serve ecological community types with G ranks indicating their global rarity (G1-G2)	specified risk and discuss	
R	CQ 6b	would be preferable. Classifying broad forest areas as HCVs will be challenging and may not result in the protection of unique systems.	with WG	Economic
		The literature on defining and determining roadless areas varies and this is an active area of research, globally. There is no consensus		
		for an absolute threshold or ratio to determine a roadless area, but rather a recognition for such thresholds to be locally and thoughtfully		
		determined. For these reasons, we recognize the assessment of roadless areas to be ambiguous, especially with limited knowledge of		
		non-public lands. We expect relevant experts have been or will be consulted in each region to determine the appropriate risk designation		
		for roadless areas to complement the data measures used. We have suggested expert names or resources previously. If additional	Contact experts if	
		experts are suggested through this consultation, suggest consulting these experts as well to ensure this designation is robust and	possible and then discuss	
R	CQ 6b	justifiable.	with WG	Environmental

			Assess cost/benefit of	
R	CQ 6c	Landsat imagery is available for purchase.	data acquisition and discuss with WG	Economic
R	CQ 6c	We believe there is very little threat to old growth forests on public lands in the western US. The USFS and other government entities have already addressed old growth management and due to changes in the forest industry over time, the overwhelming majority of forest products facilities cannot physically handle the large size trees from old growth forests. The USFS has several programs in place to address the management of younger forests to eventually become late seral stage or old growth.	Discuss with WG	Economic
		, , , , , , , , , , , , , , , , , , , ,		
х	CQ 6c	No		Economic
		The results defy logic, and can best be understood as a political decision. Public lands containing old-growth are not threatened by forest management activities. On the contrary more forest management is needed to restore these systems and protect them from uncharacteristicly-severe wildfires. There are numerous reports and publications detailing the limited amount of harvesting on U.S. National Forests, for example. NEPA and Forest Service planning requirements are adequate to protect these areas for the values that		
R	CQ 6c	they encompass.  FSC should avail itself of the Forest Plan monitoring reports for the National Forest System lands for information on status of old growth	Discuss with WG	Economic
R	CQ 6c	stands on public lands. As stated above, threats to public land old growth forests are at risk from factors outside of forest management, and the designation of risk for public lands may negatively impact old growth forests.	Discuss with WG	Economic
Х	CQ 6c	I am not		Environmental

		Comment:		
		GAP1 and GAP2 forests are certainly low risk, but the designation of wood from all other public lands in the Pacific Coast region as		
		"specified risk" is too coarse a conclusion—it does not accurately reflect the distribution of old forests across the landscape (and on both		
		public and private ownerships) or the efforts currently underway to protect and enhance those conditions.		
		There are a variety of habitat conservation plans (HCPs), Safe Harbor Agreements, and other arrangements with the federal services		
		across the Pacific Northwest that protect existing old forests and/or include measures to put younger forest stands on a trajectory		
		toward old forest habitat. These agreements exist across both private and public ownerships and are subject to a rigorous public		
		comment period as part of the NEPA process.		
		Below is a sampling of such agreements between forestland owners/managers and the federal services.		
		- Washington Department of Natural Resources, State Lands Habitat Conservation Plan (Washington, Public): 1,600,000 acres		
		- Plum Creek Timber Company (now Weyerhaeuser), Central Cascades Habitat Conservation Plan (Washington, Private): 169,177 acres		
		- Port Blakely, Safe Harbor Agreement – Morton Block (Washington Private): 45,306 acres		
		- Port Blakely, RB Eddy Tree Farm HCP (Washington, Private): 10,628 acres		
		- Murray Pacific Corporation, West Fork Timber HCP (Washington, Private): 53,527 acres		
		- SDS Company, NSO Safe Harbor Agreement (Washington and Oregon, Private): 81,587 acres		
		- Weyerhaeuser, Millicoma Tree Farm Habitat Conservation Plan (Oregon, Private): 209,000 acres		
		- Oregon Department of Forestry, Programmatic Safe Harbor Agreement for the NSO (Oregon, Public/Private): 19,000,000 acres		
		*Additional current and pending agreements and more information on the above documents can be found here and here.		
		These plans include a variety of strategies to protect existing old forests as well as enhance and restore habitat for old growth		
			Investigate alternative	
		management activities. Through these strategies, public and private timber managers are managing millions of acres of working forests	<u> </u>	
			and then discuss with	
R	CQ 6c	in washington and oregon using strategies designed to conserve and restore older forests and the species that fely upon them.	WG	Economic
IN .	CQ UC		VVO	LCOHOITIC
x	CQ 6c	No		Economic

		The threat assessment does not seem to take into consideration the restoration efforts being made on USFS and BLM lands across the		
		Rocky Mountain and Pacific Coast regions. I suspect there are many sources of information available that could be used to demonstrate		
		the extent of this activity, and to illustrate the focus on forest health improvement, fire risk mitigation, and promotion of old forest		
		structure development through stewardship contracting. Two examples would be from the Pinchot Institute:		
		1. Case Studies of Public Engagement in Stewardship Contracting, FY 2017 Programmatic Monitoring Report to the USDA Forest		
		Service; https://www.fs.fed.us/restoration/documents/stewardship/reports/2017/FY2017Stewar dshipContractingReport-Pinchot.pdf		
		2. Collaborative Forest Landscape Restoration: A Meta-Analysis of Existing Research on the CFLR Monitoring Program;		
		http://www.pinchot.org/pubs/548 (download)		
		The specified risk calls out public lands in general, and I believe evidence exists that at least two of the three states in the Pacific Coast		
		region each have programs geared towards the protection and enhancement of existing old growth forests, or recruitment of old forest		
		structure. Examples from these states include:		
		1. In Washington State, policies related to the management of State Trust Lands contain multiple provisions for the identification,		
		conservation, and enhancement of old growth forest. The State Trust Lands Habitat Conservation Plan is one place to look for evidence		
		of this (https://www.dnr.wa.gov/programs-and-services/forest- resources/habitat-conservation/identifying-mature-and-old-forests);		
		the Policy for Sustainable Forests on State Trust Lands (https://www.dnr.wa.gov/programs-and- services/forest-resources/habitat-		
		conservation/policy-sustainable-forests-state-trust), is another. The document associated with the latter policy even names as one of		
		the intended outcomes of the plan, "Conserving old growth and targeting other suitable structurally complex forests, to meet a 10		
		percent to 15 percent older-forest target for each Western Washington HCP planning unit, over 70 years."		
		2. In Oregon, the Oregon Department of Forestry has a stated commitment to employing structure-based management of state lands		
		under their jurisdiction west of the Cascades, and uneven-aged management of the mixed-conifer forests east of the Cascades. Forest		
		Management Plans for three geographic regions of the state (found under "Forest Management Plans," at:		
		http://www.oregon.gov/odf/working/pages/stateforests.aspx), all contain information on the current status of old growth forests, and		
		how they will be restored, protected, or enhanced over time. Riparian Management Areas, HCVAs, and other features of ODF lands and		
		management policies would seem to provide ample evidence to suggest that protection, enhancement, and/or creation of "old forest		
R	CQ 6c	structure," is a management objective on ODF lands.	Discuss with WG	Economic
	00,00	FSC should avail itself of the Forest Plan monitoring reports for the National Forest System lands for information on status of old growth		200.1011110
		stands on public lands. As stated above, threats to public land old growth forests are from factors outside forest management, and the		
R	CQ 6c	designation of risk for public lands may negatively affect old growth forests.	Discuss with WG	Economic
-	00,00	acong nation of the first paths and a may negatively anest ora great interestal	2.500.50 11111111	200.1011110
		As stated above, threats to public land old growth forests are at risk from factors outside of forest management, and the designation of		
		risk for public lands may negatively impact old growth forests. The FSC should avail itself of the Forest Plan monitoring reports for the		
R	CQ 6c	National Forest System lands for information on status of old growth stands on public lands.	Discuss with WG	Economic
		We are not aware of any additional information sources that identify threats to public land Old-Growth from forest management		
		activities. However, we think the threat to Old Growth on public land is much lower than the NRA is assuming. Since the early 1990's		
		the harvest levels in the Pacific Northwest have been drastically reduced. These lower harvest levels are partially due to public land		
		policy and partially due to legislative protections. Today, almost all known and identified Old Growth stands on our National Forest		
		Lands are protected from harvesting and in many selectively harvested stands only the smaller timber is being removed leaving the		
R	CQ 6c	larger trees standing. In reality the threat to remaining Old-Growth stands on federally owned public lands in the US is low.	Discuss with WG	Economic
X	CQ 6c	See above		Environmental
	1			

		res. I do not agree with the Specified Kisk designation related to old growth HCV in Oregon, washington, and California based on lack of		
		recruitment of old growth habitat as the main issue or limited presence of current old growth condition forests. We must look at what		
		can be expected with existing protections and land uses. I highlight this because there are protections in place today (northwest forest		
		plan) that will bear fruit over time. The protections have not been in place long enough for younger age class forests to achieve old		
		growth characteristics yet.		
		Research shows a trend toward older trees in Reserves created by the Northwest Forest Plan and an increase in recruitment over time.		
		Research exits from the Forest Service - Region 6 office related to recruitment. Raymond J. Davis is monitoring lead for older forests		
		and spotted owls. There is on-going monitoring related to the Northwest Forest Plan to gauge success related to old growth goals in addition to other goals that overlap with our NRA.		
		Research shows that while attrition of old growth on national forests does occur (largely due to fire disturbance events), protection		
		goals are being met and recruitment of older growth forests is occurring and is expected to increase over time. Furthermore, there is a		
		significant age class of 60-80 year trees in the reserves that are not currently classified as old growth created from post fire germination		
		and post-harvest planted that occurred mid-century. In the next 50 years this age class will start exhibiting key old growth characteristics		
		needed for spotted owl and other old growth values. In Oregon, there is an additional wave of 100+ year old trees from fires in the late		
		1800s.		
		Eighty percent of forest service property is in Reserve statues under the NWFP and managed specifically for old growth as a core goal.		
		Land area in the reserves that was not old growth when the NWFP was established are transitioning into older forests. To see a graph		
		that specifically shows younger age forests moving toward older growth forests in Reserve areas you can look in the latest Northern		
		Spotted Owl monitoring report Fig. 12 on page 37. (Status and Trends of Northern Spotted Owl Habitats. Raymond J. Davis, Bruce		
		Hollen, Jeremy Hobson, Julie E. Gower, and David Keenum, March 2016 Pacific Northwest Research Station.) The figure in the study is		
		specific to Oregon and shows the most increase on the coastal range. Similar conditions can be assumed in Washington and California		
		based on similar fire, harvest, and protection (NWFP) histories along the West Coast.		
		A resource on the NWFP and recruitment of old growth is Tom Spies at Oregon State. A second resource is Norm Johnson who just		
		retired from OSU and is publishing a book on ecological forestry. Tom has been involved in NWFP monitoring work in addition to spotted	Look for additional	
		owl habitat recruitment and other related topics. I have read three monitoring reports and one phone conversation to confirm my	information sources and	
R	CQ 6c	understanding of the issue with Tom.	then discuss with WG	Social
		FSC should avail itself of the Forest Plan monitoring reports for the National Forest System lands for information on status of old growth		
		stands on public lands. As stated above, threats to public land old growth forests are at risk from factors outside of forest management,		
R	CQ 6c	and the designation of risk for public lands may negatively impact old growth forests.	Discuss with WG	Economic
Χ	CQ 6c	Same comment as above		Environmental

	_	reform our perspective, public lands containing old-growth are not threatened by forest management activities. For example, in the	Т	1
		southern Appalachian region on public lands, very minimal forest management activity have occurred in the past 20 years. Given this		
		situation, more forest management is actually needed to restore these systems, enhance wildlife habitat, and protect the forests from		
		uncharacteristically-severe wildfires. There are numerous reports and publications detailing the limited amount of harvesting on U.S.		
		National Forests, for example. NEPA and Forest Service planning requirements are adequate to protect these areas for the values that		
		they encompass.		
		Priority Forest Types: Mesophytic Cove Sites		
		The NRA identifies a broad geographic area as having Specified Risk for Mesophytic Cove Sites. This area appears to include portions of		
		several ecological regions (e.g., Appalachian Highlands) that vary in terms of biophysical factors that influence occurrence of Mesophytic		
		Cove Sites. The NRA could be strengthened by refining their delineation of the area having Specified Risk for this Priority Forest Type to		
		omit areas with little potential to include the two ecological systems related to this Priority Forest Type, i.e., Southern and Central Appalachian Cove Forest (CES 202.373).		
		With respect to Mesophytic Cove Sites, the NRA (pg. 205) states that "threats also include incompatible forest management that results		
		in alterations to the structure and composition of the forest or conversion to other forest types (white pine), climate change, chronic		
		deer herbivory, harvesting of herbs and pollution." It further states (pg. 205) that forestry practices can "affect herbaceous species		
		composition or abundance and therefore the quality and functioning of the system." Thus, the NRA appears to consider changes in		
		forest structure as a threat to this Priority Forest Type but presents no supporting scientific evidence. Harvesting cove sites can increase		
		abundance at the stand level of plant and animal species associated with younger forests and diminish abundance of those associated		
		with older forest. However, the implications of these changes for biodiversity obviously will vary depending upon the site-specific		
		alterations to forest structure and the spatial and temporal scales of assessment. In some cases, responses to harvesting can be		
		minimal. For example, Ford et al. (2000) surveyed cove-hardwood stands aged 15, 25, 50, and >85 years in the Southern Appalachian		
		Mountains of northern Georgia. Of 69 species and/or genera of spring-late summer herbaceous plants recorded, the abundance of only		
		four species differed among stand ages surveyed.		
		We encourage FSC US to recognize that short-term changes to forest structure, such as those associated with forest harvesting, do not	Look for additional	
			inforamtion sources and	
R	CQ 6c	issues identified as threats (e.g., deer herbivory, climate change, harvesting of herbs, pollution) appear to be outside the scope of an	then discuss with WG	Economic
x	CQ 6c	Not additionally at this time.		Environmental
			Review additional	
			inforamtion sources and	
R	CQ 7a	It seems like the Clean Water Act reporting requirements may be a valuable source of information here.	discuss with WG	Economic
x	CQ 7a	No		Economic
			Consider additional	
		Review and consult state watershed protection plans, Clean Water Act reporting requirements (303d lists), and any regional and local	information sources and	
R	CQ 7a	water management plans.	discuss with WG	Economic
1		· · · · · · · · · · · · · · · · · · ·		

		No, though I think more emphasis should be placed on additional ecosystem services besides those relating to water. Though erosion		
		control and other important services were mentioned, they were not of focus in the designation of HCV4 forests. Presumably this is	Consider additional	
		because the dataset available considered water issues alone. We hope that datasets suggested through this commentary review can be	information sources and	
R	CQ 7a	utilized in future analyses.	discuss with WG	Environmental
х	CQ 7a	No		Economic
			Consider additional	
			information sources and	
R	CQ 7a	State watershed protection plans, Clean Water Act reporting requirements, regional water plans	discuss with WG	Economic
			Consider additional	
			information sources and	
R	CQ 7a	State watershed protection plans, Clean Water Act reporting requirements, regional water plans	discuss with WG	Economic
Х	CQ 7a	No		Economic
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	60.75	No.		F
^	CQ 7a	No		Economic
x	CQ 7a	No		Economic
	ΕQ 7α			Leonomie
Х	CQ 7a	No		Economic
X	CQ 7a	No		Economic
x	CQ 7a	The challenge is about datasets that match the coarse scale of the NRA. Given this scale many datasets may not make sense.		Economic
		Not at this time, though with increasing impacts from climate change-related events, forest ecosystem services such as preventing		
Х	CQ 7a	erosion and mudslides may become increasingly relevant.		Environmental
Α	CQ 7b	The Low Risk designation is appropriate in our opinion.		Economic

R	CQ 7b	Forestry BMPs are based on a substantial body of scientific research that has identified the most important causes of NPS pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state regulatory authority (NCASI 2009, NASF 2015).  State Forestry/DNR Agencies	Look for additional information regarding BMP implementation in CBAs; note that the scale of the HCV4 and HCV1 assessments are different; discuss with WG	Economic
R	CQ 7b	NCASI has evaluated the effectiveness of forestry BMP's through numerous scientific studies. We would defer to their comments on this question.	discuss with WG	Economic
х	CQ 7b	No	Consider additional	Economic
	1		information sources and	

		Journal of Forestry January 2016:		
		Introduction: Symposium on Forestry Best Management Practice (BMP) Effectiveness in the Eastern United States. Erik B. Schilling.		
		Research Articles:		
		Estimated Erosion, Ground Cover, and Best Management Practices Audit Details for Postharvest Evaluations of Biomass and		
		Conventional Clearcut Harvests. Scott M. Barrett, Scott M., W. Michael Aust, M. Chad Bolding, William A. Lakel III, and John F. Munsell.		
		Can the Water Erosion Prediction Project Model Be Used to Estimate Best Management Practice Effectiveness from Forest Roads?		
		Kristopher R. Brown, Kevin J. McGuire, W. Cully Hession, and W. Michael Aust.		
		Effects of Timber Harvest on Water Quantity and Quality in Small Watersheds in the Piedmont of North Carolina. Johnny Boggs, Ge Sun,	0 1 1 1 1	
		and Steven McNulty.	Consider additional	
<u> </u>	CO 7h	, , ,	information sources and	F:-
R	CQ 7b	Barton, Jeffrey W. Stringer, Randall K. Kolka, and Mac A. Cherry As a NCAST member, we rely neavily on their scientific expertise and evaluation of the draft NRA. We therefore will incorporate NCAST	discuss with WG	Economic
		comments on this question.		
		For several CBAs, the NRA indicates that forestry operations are adversely affecting water quality. For example, "operations that are not		
		using best management practices" and "extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation"		
		are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially due to loss of near-stream		
		forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe erosion of river		
		banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these threats for the		
		Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point source pollution		
		(including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. Thus, the NRA		
		appears to conclude that forestry practices are having a pervasive and adverse effect on water quality in many of the CBAs.		
		The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state		
		forestry agencies. Furthermore, the statements conflict with NRA Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes		
		that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high		
		likelihood that HCV 4 [Critical Ecosystem Services] are being effectively protected throughout the assessment area through the	Look for additional	
		implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.	information regarding BMP implementation in	
		In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism	CBAs; note that the scale	
		for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP	of the HCV4 and HCV1	
		programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log	assessments are	
		landings, skid trails, streamside management zones, and stream crossings. Twenty-five states had written new BMP guidelines or	different and that BMPs	
		revised their guidelines within five years of the survey by Cristan et al. (2017). Information about BMP recommendations,	are designed to protect	
		implementation rates, and research findings is available through the National Association of State Foresters at	water quality but their	
		https://stateforesters.org/action-issues-and-policy/state-forestry-BMPs-map-o-o.	effectiveness at	
		Forestry BMPs are based on a substantial body of scientific research that has identified the most important causes of nonpoint source	protecting biodiversity is	
		(NPS) pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are	not fully understood;	
R	CQ 7b	effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state	discuss with WG	Economic

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		The Low Risk designation is appropriate and reasonable in the NRA.		
		Although the NRA and Annexes describe limited availability of data related to HCV 4 there are additional information sources and legal		
		(or state policy) protections that should be noted such as: protections for water quality provided under the Clean Water Act (CWA) that		
		are implemented by each state, and the variety of water supply protection plans and watershed protection plans in place at the local		
		level around the U.S.		
		As an example, local water supply planning assistance has been provided in Ohio since the 1980s through resources available from Ohio		
		Department of Natural Resources, Division of Water and the Ohio EPA, Division of Drinking & Ground Waters. This type of planning is		
		essential to maintain dependable drinking water supplies that are essential for the health and social well-being of all Ohioans. Likewise,		
		Indiana has developed a statewide water supply and storage plan (2009 and updated in 2015). The purpose of this plan is to provide the		
		State of Indiana with an effective and systematic plan to assess and manage the State's water resources during a water shortage or		
		potential water shortage to respond, to the maximum extent practicable, to the needs of its water users while protecting its	Consdier additional	
		environment. These examples are provided because these are the states where we have facilities, not necessarily where we currently,	information soures and	
		or would in the future, source CW. There are no doubt similar regional, state, and local water resource planning efforts around the U.S.	incorporate as	
A,I	CQ 7b	that should be considered and consulted for determinations regarding HCV4. For several CBAS, the NKA indicates that forestry operations are adversely affecting water quality. For example, operations that are not	appropriate	Economic
		using best management practices" and "extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation"		
		are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially due to loss of near-stream		
		forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe erosion of river		
		banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these threats for the		
		Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point source pollution		
		(including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. Thus, the NRA		
		appears to conclude that forestry practices are having a pervasive and adverse effect on water quality in many of the CBAs.		
		The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state		
		forestry agencies. Furthermore, the statements conflict with NRA Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes		
		that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high		
		likelihood that HCV 4 [Critical Ecosystem Services] are being effectively protected throughout the assessment area through the		
		implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to		
		here is water quality.	Look for additional	
			information regarding	
		for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP	BMP implementation in	
		programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log	CBAs; note that the scale	
		landings, skid trails, streamside management zones, and stream crossings. Twenty-five states had written new BMP guidelines or	of the HCV4 and HCV1	
		revised their guidelines within five years of the survey by Cristan et al. (2017). Information about BMP recommendations,	assessments are	
		implementation rates, and research findings is available through the	different and that BMPs	
		National Association of State Foresters at https://stateforesters.org/action-issues-and-policy/state-forestry-BMPs-map-o-o.	are designed to protect	
		Forestry BMPs are based on a substantial body of scientific research that has identified the most important causes of nonpoint source	water quality but their	
		(NPS) pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are	effectiveness at	
		effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state	protecting biodiversity is	
		regulatory authority (NCASI 2009, NASF 2015).	not fully understood;	
R	CQ 7b	Thirty-two states have conducted BMP implementation studies (Cristan et al. 2017). Nationally, rates of BMP compliance and	discuss with WG	Economic

x	CQ 7b	No No		Environmental
R	CQ 7b	Please refer to comments submitted by NCASI.	Discuss with WG	Economic
		The Low Risk designation is appropriate and reasonable in the NRA. Although the NRA and Annexes describe limited availability of data related to HCV 4 there are additional information sources and legal (or state policy) protections that should be noted.  a. Legal protection for water quality is provided under the Clean Water Act (CWA). Each state has to assess water quality in streams, lakes, and estuaries and determined if those waters are meeting their designated uses. If they are not meeting their designated uses then Total Maximum Daily Loads (TMDLs) are developed and TMDL implementation plans are put into place to address the sources of impairment. Point and non-point sources of impairment are covered in TMDLs.  b. Beyond the CWA, there are also a variety of water supply protection plans and watershed protection plans in place at the local level. For example, the State of Georgia requires watershed protection plans for municipalities and counties with a certain size of service area and wastewater treatment capacity (generally 1 million gallons a day). Those plans are designed to incorporate BMPs to improve and protect water quality in those areas. Water quality monitoring as well as biotic assessments (fish and macroinvertebrate communities) are required so there is a great deal of information available to determine existing threats to water quality and ecosystem services from land use changes and development activities.  c. Also using the State of Georgia as an example, there are Regional Water Plans, completed for the entire State in 2011. The plans were reviewed and revised in 2016-2017. These plans were developed through a highly stakeholder driven process and include information on water resource assessments, future water demands based on growth projections (through a 2050 planning horizon), and management practices to meet regional visions and goals and address future needs. The plans and their supplemental materials are available at https://waterplanning.georgia.gov/. These plans, and others like th	Consdier additional information sources and incorporate as	
A,I	CQ 7b	and trends.	appropriate	Economic

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		The Low Risk designation is appropriate and reasonable in the NRA.		
		Although the NRA and Annexes describe limited availability of data related to HCV 4 there are additional information sources and legal		
		(or state policy) protections that should be noted.		
		a. Legal protection for water quality is provided under the Clean Water Act (CWA). Each state has to assess water quality in streams,		
		lakes, and estuaries and determined if those waters are meeting their designated uses. If they are not meeting their designated uses		
		then Total Maximum Daily Loads (TMDLs) are developed and TMDL implementation plans are put into place to address the sources of		
		impairment. Point and non-point sources of impairment are covered in TMDLs.		
		b. Beyond the CWA, there are also a variety of water supply protection plans and watershed protection plans in place at the local level.		
		For example, the State of Georgia requires watershed protection plans for municipalities and counties with a certain size of service area		
		and wastewater treatment capacity (generally 1 million gallons a day). Those plans are designed to incorporate BMPs to improve and		
		protect water quality in those areas. Water quality monitoring as well as biotic assessments (fish and macroinvertebrate communities)		
		are required so there is a great deal of information available to determine existing threats to water quality and ecosystem services from		
		land use changes and development activities.		
		c. Also using the State of Georgia as an example, there are Regional Water Plans, completed for the entire State in 2011. The plans		
		were reviewed and revised in 2016-2017. These plans were developed through a highly stakeholder driven process and include		
		information on water resource assessments, future water demands based on growth projections (through a 2050 planning horizon), and		
		management practices to meet regional visions and goals and address future needs. The plans and their supplemental materials are		
		available at https://waterplanning.georgia.gov/. These plans, and others like them, done at regional or statewide scales, contain	Consdier additional	
		information relevant to HCV 3 concerns (and they should be identified and referenced for future iterations of the NRA and for guiding	information soures and	
		decision making coming out the planned Regional Meetings). They are also informative for HCV 4 concerns related to growth magnitude		
A,I	CQ 7b	and trends.	appropriate	Economic
7 1,1	CQ 75	res: nere are a sampling:	арргорпасс	Leonomie
		• Kentucky's Timber Harvesting BMP Implementation Study: Preliminary Results – University of Kentucky Cooperative Extension Services		
		– FORFS 97-4		
		• Silviculture Best Management Practices 2007 Implementation Survey Report – Florida Division of Forestry (February 2008)		
		• Vowell and Frydenborg. 2004. A biological assessment of best management practice effectiveness during intensive silviculture and		
		forest chemical application. Water, Air, and Soil Pollution: Focus: 4 (297-307)		
		• Vowell, J. 2001. Using stream bioassessment to monitor best management practice effectiveness. Forest Ecology and Management		
		143: 237-244		
		• Phillips and Blinn. 2004. Best management practices compliance monitoring approaches for forestry in the eastern United States.		
		Water, Air, and Soil Pollution: Focus: 4 (263-274)		
		• Ice, Dent, et al. 2004. Programs implementation and effectiveness of state forest practices rules and BMPs in the west. Water, Air,		
		and Soil Pollution: Focus: 4 (143-169)		
		• Kilgore, Ellefson, and Phillips. 2004. BMP compliance monitoring programs in the eastern United States. Water, Air, and Soil Pollution:		
		Focus: 4 (119-130)		
		• Ireland and Connors. 1994. State nonpoint source programs affecting foresztry: The 12 northeastern states. Northern Journal of		
		Applied Forestry 11 (1): 5-11.		
		• Briggs, Cormier, and Kimball. 1998. Compliance with Foretsry Best Management Practices in Maine. Northern Journal of Applied		
		Forestry 15 (2): 57-68.		
		• Ellefson, Kilgore, and Phillips. 2001. Monitoring compliance with BMPs: the experience of state forestry agencies. Journal of Forestry		
		99 (1): 11-17.		
		• Husak, Grado, Bullard, and Moffat. 2005. Silvicultral best management practice compliance monitoring programs in the southern		
		United States. SOutherm Journal of Applied Forestry 29 (1): 48-52.		
		Adams. 1998. Implementation monitoring of forestry Best Management Practices for site preparation in South Carolina. Southern	Consdier additional	
		Journal of Applied Forestry 22 (2): 74-80.	information soures and	
		• Phillips and Blinn. 2007. Practices evaluated and approaches used to select sites for monitoring the application of best management	incorporate as	
A,I	CQ 7b	practces: a regional summary. Journal of Forestry. 105 (4): 179-183.	appropriate	Economic

A,I	CQ 7b	BMP compliance and the benefits are fairly well documented at the state level. Additionally, you can review state data for the miles of impaired streams due to silvicultural activity and find that it is very small.	Consdier additional information soures and incorporate as appropriate	Economic
		For several CBAs, the NRA indicates that forestry operations are adversely affecting water quality. For example, "operations that are not using best management practices" and "extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation" are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially due to loss of near-stream forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe erosion of river banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these threats for the Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point source pollution (including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. Thus, the NRA appears to conclude that forestry practices are having a pervasive and adverse effect on water quality in many of the CBAs.  The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state forestry agencies. Furthermore, the statements conflict with NRA Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV 4 [Critical Ecosystem Services] are being effectively protected throughout the assessment area through the implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP programs that address multiple categori	Look for additional information regarding BMP implementation in CBAs; note that the scale of the HCV4 and HCV1 assessments are different and that BMPs are designed to protect water quality but their effectiveness at protecting biodiversity is not fully understood;	
R	CQ 7b	regulatory authority (NCASI 2009, NASF 2015).	discuss with WG	Economic
R	CQ 7b	Glatfelter incorporates by reference the set of comments submitted by the National Council for Air and Stream Improvement (NCASI) on this question.	Discuss with WG	Economic

using best management practices" and "estensive manipulation of vegetative cover that affects inflittation and runoff of precipitation" are identified as a threat for the Ouchitra River Valley CBA (pg. 100). **Preduced water quality partably due to loss of near-stream forested habitat", "sedimentation associated with forestry practices" and **Preduced water quality partably due to loss of near-stream forested habitat", "sedimentation associated with forestry practices and base demonstrated that possible of the Southers Application (A.G., the NRA (pg. 10.1). The NRA abilities many of these threats for the Southers Application (A.G., the NRA (pg. 10.2)) demonstrated "point and non-point source pollution (including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. Thus, the NRA appears to conclude that forestry paratices are having a penarety end advence effect on water quality in many of the CBAs.  The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state forestry agencies, Furthermore, the statements conflict with NRA Section NC - Official Ecosystems excise a public and the implementation of the effectiveners of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV4 (Circial Ecosystems Services and the primary mechanism for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log landings, skid trails, streamed consumed the program consumed to a substantial beginning in a valuable to the program stream of the survey by cristan et al. (2017) information about BMP recommendations, information are programs are typically backed by mandatory compliance with the Federic Near Near Applications with the federal programs are principly		1	peor several CBAS, the INRA indicates that forestry operations are adversely affecting water quality. For example, operations that are not	I	
are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially lave to loss of near-stream forested abilitaty" sedimentation associated with forestry practices," "lack of BMP implementation," and "severe recision of river banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these threats for the Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point source pollution (including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. This, the NRA appears to conclude that forestry practices are having a pervasive and adverse effect on water quality are many of the CBAs.  The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state forestry agencies. Furthermore, the statements conflict with NRA Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes that "Fevidence of the effectiveness of forestry BMPs associated with State notes upon the survey of the survey by Cristian to the implementation of forestry BMPs are sociated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution programs with address multiple categories of practices such as time branches; government of the states have forestry BMP and programs are typically state of the survey by Cristian et al. (2017). Information about BMP recommendation, information source and different and that BMPs					
forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe enosion of river bank" are identified as threats for the Southern Appalachian CBA (pg. 10.1). For the Florida Panhandle CBA, the NRA (pg. 10.2) identifies "point and non-point source pollution (including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. This, the NRA appears to conclude that forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. This, the NRA appears to conclude that forestry operations are having a pervasive and adverse effect on water usery conducted by state forestry agencies. Furthermore, the statements conflict with NRA Section HOVA Critical Ecosystem Services (pg. 12.3) which concludes that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV 4 (Critical Ecosystem Services) are being effectively protected throughout the sessessment area through the implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log landings, skild trails, streams and research findings is available through the National Association of State Forestres at high the programs and policystate forestres, a					
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forestry agencies. Furthermore, the statements conflict with NRA Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV 4 (Critical Ecosystem Services) are being effectively protected throughout the assessment area through the implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log landings, skid trails, streamside management zones, and stream crossings. Twenty-five states had written new BMP guidelines or revised their guidelines within five years of the survey by Cristan et al. (2017) reports that all 500 states have to the HCV4 and HCV1 assessments are different and that BMPs are based on a substantial body of scientific research that has identified the most important causes of nonpoint source (NPS) pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state regulatory authority (NCASI 2009, NASF 2015).  R CQ 7b No  Thirty-two states have conducted BMP implementation studies (Cristan et al. 2017). Nationally, rates of BMP compliance and discuss with WG  Economic  AF&PA incorporates by reference the comments submitted by NCASI on this question.  Discuss with WG  Economic  Conditional information sources and forests and has demonstrated that the PS control and mitigation management a					
that "Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high likelihood that HCV 4 (Critical Ecosystem Services) are being effectively protected throughout the assessment area through the implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to here is water quality.  In the decades following passage of the Clean Water Act, the States led development and approval of BMPs as the primary mechanism for controlling non-point source pollution from forestry operations. Cristan et al. (2017) reports that all 50 states have forestry BMP programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log landings, skid trails, streamside management zones, and stream crossings. Twentiten new BMP gludelines or revised their guidelines within five years of the survey by Cristan et al. (2017). Information about BMP recommendations, implementation rates, and research findings is available through the National Association of State Foresters at https://stateforesters.org/action-issues-and-policy/state-forestry-BMPs-map-o-o.  Forestry BMPs are based on a substantial body of scientific research that has identified the most important causes of nonpoint source (NPS) pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state protecting blodiversity is not fully understood; discuss with WG   CQ 7b No  CQ 7b No  AF&PA incorporates by reference the comments submitted by NCASI on this question.  Discuss with WG  Economic  R CQ 7b AFRC incorporates by reference the comments submitted by NCASI on this question.			, , , , , , , , , , , , , , , , , , , ,		
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R CQ 7b AF&PA incorporates by reference the comments submitted by NCASI on this question.  Discuss with WG Economic  Consdier additional information sources and		CQ 75			Legitorine
R CQ 7b AFRC incorporates by reference the comments submitted by NCASI on this question.  Consdier additional information sources and	Х	CQ 7b	No		Economic
R CQ 7b AFRC incorporates by reference the comments submitted by NCASI on this question.  Consdier additional information sources and					
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				Consdier additional	
Suggest National Association of State Foresters if this source not already consulted. https://stateforesters.org/ . They may be aware of lincorporate as				information soures and	
			Suggest National Association of State Foresters if this source not already consulted. https://stateforesters.org/ . They may be aware of		
I CQ 7b studies or Oregon State University School of Forestry or Yale School of Forestry. appropriate Economic	1	CQ 7b	studies or Oregon State University School of Forestry or Yale School of Forestry.	appropriate	Economic
Consdier additional				Consdier additional	
Yes. The Sustainable Forestry Initiative (SFI) program has been actively promoting, monitoring, tracking, and reporting BMP information sources and			Yes. The Sustainable Forestry Initiative (SFI) program has been actively promoting, monitoring, tracking, and reporting BMP		
implementation and effectiveness for many years. Many (perhaps most) of their engaged network of land management and wood incorporate as			implementation and effectiveness for many years. Many (perhaps most) of their engaged network of land management and wood	incorporate as	
CO 7b procurement companies are also engaged member and stakeholders of the FSC program.	li .	CQ 7b	procurement companies are also engaged member and stakeholders of the FSC program.	appropriate	Economic
Yes. The Sustainable Forestry Initiative (SFI) program has been actively promoting, monitoring, tracking, and reporting BMP information sources and implementation and effectiveness for many years. Many (perhaps most) of their engaged network of land management and wood incorporate as		CQ 7b	AFRC incorporates by reference the comments submitted by NCASI on this question.  Suggest National Association of State Foresters if this source not already consulted. https://stateforesters.org/. They may be aware of studies or Oregon State University School of Forestry or Yale School of Forestry.  Yes. The Sustainable Forestry Initiative (SFI) program has been actively promoting, monitoring, tracking, and reporting BMP implementation and effectiveness for many years. Many (perhaps most) of their engaged network of land management and wood	Discuss with WG  Consdier additional information soures and incorporate as appropriate  Consdier additional information soures and incorporate as	Economic

		https://stateforesters.org/action-issues-and-policy/state-forestry-BMPs-map-o-o Literature review in Forest Ecology and Management: Effectiveness of forestry best management practices in the United States:	Consdier additional information sources and	
		https://stateforesters.org/sites/default/files/issues-and-policies-document-	incorporate as	
1	CQ 7b	attachments/Literature%20Review%20published%20in%20Forest%20Ecology%20and%20Management.pdf	appropriate	Economic
А	CQ 7b	I support the Low Risk designation.		Social
R	CQ 7b	WestRock incorporates by reference the comments submitted by NCASI on this question.	Discuss with WG	Economic
I	CQ 7b	Journal of Forestry January 2016: Introduction: Symposium on Forestry Best Management Practice (BMP) Effectiveness in the Eastern United States. Erik B. Schilling. Research Articles: Estimated Erosion, Ground Cover, and Best Management Practices Audit Details for Postharvest Evaluations of Biomass and Conventional Clearcut Harvests. Scott M. Barrett, Scott M., W. Michael Aust, M. Chad Bolding, William A. Lakel III, and John F. Munsell. Can the Water Erosion Prediction Project Model Be Used to Estimate Best Management Practice Effectiveness from Forest Roads? Kristopher R. Brown, Kevin J. McGuire, W. Cully Hession, and W. Michael Aust. Effects of Timber Harvest on Water Quantity and Quality in Small Watersheds in the Piedmont of North Carolina. Johnny Boggs, Ge Sun, and Steven McNulty. Influence of Variable Streamside Management Zone Configurations on Water Quality after Forest Harvest. Emma L. Witt, Christopher D. Barton, Jeffrey W. Stringer, Randall K. Kolka, and Mac A. Cherry	Consdier additional information soures and incorporate as appropriate	Economic
ı	CQ 7b	Yes.  • Cristan, Richard & Aust, W & Chad Bolding, M & M. Barrett, Scott & F. Munsell, John. (2017). National status of state developed and implemented forestry best management practices for protecting water quality in the United States. Forest Ecology and Management. 10.1016/j.foreco.2017.07.002. https://www.researchgate.net/publication/318435678_National_status_of_state_developed_and_implemented_forestry_best_management_practices_for_protecting_water_quality_in_the_United_States	Consdier additional information soures and incorporate as appropriate	Economic
I	CQ 7b	There is a great deal of information on the effectiveness of forestry BMPS and state monitoring of implementation. Christan et al 2017 provides a broad and detailed summary that references multiple other sources that can be utilized. The NRA would benefit from a clearer acknowledgement of BMP effectiveness, implementation monitoring and the protections they afford. Sources of information citing lack of BMP implementation or inadequate BMPs should be verified against the breadth of credible information available.	Consdier additional information soures and incorporate as appropriate	Economic
R	CQ 7b	See NCASI comments.	Discuss with WG	Economic
х	CQ 7b	Not at this time.		Environmental
х	CQ 8	No		Economic
х	CQ 8	No		Economic

	1		I	1
		No.		
		We assume FSC has reached out to FSC member and non-member organizations concerned with native lands or consisting of majority	Reach out to tribes and	
		native membership. Obviously, the communities (native and non-native) in question would have the most information about their own	experts and then discuss	
R	CQ 8	needs, and could perhaps give valuable commentary.	with WG	Environmental
Χ	CQ 8	No		Economic
Χ	CQ 8	No		Economic
Χ	CQ 8	No.		Economic
Χ	CQ 8	No		Economic
X	CQ 8	No .		Economic
		I support the low risk designation. However, as a social chamber member I would like to raise a process concern.		
		FSC must make sure our standards protect our forests and achieve our values. I strongly believe we must protect HCV 1, 2, 3, and 4. However, it is not a net sum game. As a social chamber member, I have seen our core values run up against one another. For example		
		IFLs has run up against ICLs. Do we honor indigenous communities' autonomy and cultural landscapes or do we place IFL rules on		
		communities in ICL areas. Community health and welfare vs forest preservation can be seen in real ways in rural communities in the US.		
		I have a deep concern about how the "precautionary approach" is being used. We are using specified risk as the default for the		
		precautionary approach when there is uncertainty on HCV 1-4 issues. However, protection for HCV 5 when it comes to resource		
		dependent rural communities means a low risk default.		
		Low risk is critical to make sure we are not limiting log supply beyond what is required to legitimately protect 1, 2, 3, and 4. If we		
		heavily weight our process to specified risk, we make it harder for FSC mills to source logs. Basic community needs conflicts with over		
		application of HCV1-4 protection.		
		Using the precautionary approach to raise specified risk puts resource dependent rural communities at risk of not having access to		
		critical timber volumes and markets to keep rural mills open, infrastructure, and jobs in place. Mill jobs are basic necessities for		
		communities with >50% of employment directly connected to a mill. One of the main reasons mills close in the US is because of lack of		
		log availability.		
		Log availability means food on the table for families in many rural communities in the US.		
		We must consider low risk as a precautionary approach for ensuring the basic needs of local rural communities. This should not be used	Discuss with WC	Cosial
A,I	CQ 8	as an excuse for overharvest but should be considered a relevant social chamber issue in the US.	Discuss with WG Reach out to tribes and	Social
		No, however consultation with organizations such as the Affiliated Tribes of the NW Indians and the United Tribes of the South and East		
R	CQ 8	could provide additional, useful information.	with WG	Environmental
N	CQ o	Louid provide additional, disertif information.	Reach out to tribes and	LiiviiOiiiileiital
			experts and then discuss	
R	CQ 8	Not at this time though we expect expert opinion, included indigenous communities to have been or to be consulted.	with WG	Environmental
	500	The at this time though the expect expert opinion, motoded margenous communities to have seen or to be consulted.	***************************************	Z. T. T. O. III C. II.
х	CQ 9a	No		Economic
<u> </u>	1	11.5		

	<u> </u>			
х	CQ 9a	No		Economic
		See above		
		While the information was the military and the military of this leaves of the language of the same of	Danah aut ta teibaa and	
		While the information may not be public because of the private nature of tribal ceremonies, there may be an opportunity for direct communication between the groups suggested above and decision makers (such as FSC). This apparently was done in the case of a	Reach out to tribes and experts and then discuss	
R	CQ 9a	Sacred Lands Task force advising the Forest Service.	with WG	Environmental
1,	50,50	Stated Lands Tusk Toroc datishing the Forest service.	With WG	Environmental
Х	CQ 9a	No		Economic
Х	CQ 9a	No		Economic
<u> </u>	60.0	N.		F
Х	CQ 9a	No		Economic
×	CQ 9a	No		Economic
^	CQ 9a	INO INO		LCOHOITIC
		No, there are no known issues, concerns or threat to sacred areas/sites from forestry in the US. This would be a good example of what		
Α	CQ 9a	seems to be a perceived problem, yet is unsupported by any real evidence to the contrary.		Economic
		Yes. Over the last few years, several tribes and Native American-led organizations have submitted formal, written letters to the		
		Washington Forest Practices Board with concerns about the management of private forests in Eastern Washington State. These	Look for additional	
	00.0	concerns center around aerial application of chemicals and lack of consultation with tribes when management activities effect cultural	inforamtion sources and	
K	CQ 9a	resources.	then discuss with WG Consdier additional	Environmental
			information soures and	
			incorporate as	
ı	CQ 9a	No, Sustainable Biomass Program and FSC Stakeholder Consultations resulted in no feedback.	appropriate	Economic
			Reach out to tribes and	
			experts and then discuss	
R	CQ 9a	Not at this time though we expect expert opinion, included indigenous communities to have been or to be consulted.	with WG	Environmental
V	CQ 9b	No		Faanamia
^	CQ 90	INO		Economic
Х	CQ 9b	No		Economic
x	CQ 9b	I am not		Environmental

x	CQ 9b	No		Economic
	20,32			Legitottie
Х	CQ 9b	No		Economic
x	CQ 9b	No		Economic
	0000			
x	CQ 9b	No. Same as immediately above.		Economic
			Reach out to tribes and	
		Same comment as above and, throughout the West and likely the entire country, cultural values and resources are widespread in	experts and then discuss	
R	CQ 9b	forested areas. Consultation with local tribes will indicate specific threats.	with WG	Environmental
	-	·	Consdier additional	
			information soures and	
			incorporate as	
I	CQ 9b	No, Sustainable Biomass Program and FSC Stakeholder Consultations resulted in no feedback.	appropriate	Economic
Х	CQ 9b	Not at this time.		Environmental
	6034	Vaa		F
А	CQ21	Yes		Economic
		Enviva supported NCASI Comment		
		NOTE: Many of the Consultation Questions are focused on implementation issues or topics outside our forestry expertise. Where there is		
		no forest science basis for a response, we have answered "No Comment". Throughout our comments we cite scientific publications and		
V		data presented in Appendices. These references and appendices can be found in the attached document "NCASI_Technical		F
Х	General	Comments_FSCUSNRA.pdf"		Economic
		Allegheny Wood Products is a manufacturer of hardwood lumber with facilities focues on the Appalachian Region of the U.S., particularly		
<u></u>		West Virginia. Our company is potentially impacted by proposed changes to the FSC Chain of Custody standard and requirements for		F
Х	General	Controlled Wood. We submit the floowing comments relative to FSC-US National Risk Assessment.		Economic
		I am emailing to let you know that PCA supports the written comments from AF&PA and NCASI in regards to		
D 6	C	the draft NRA from FSC US. I do not have separate comments, I feel AF&PA and NCASI articulated it best.	Diaman ida MC	F
R,C	General	Please respond if you have questions for me.	Discuss with WG	Economic

		I am writing to provide feedback on Version 2.0 of the Draft National Risk Assessment (NRA) for Controlled Wood (CW). I apologize for not using the official comment form, but many of my concerns and recommendations for the NRA do not easily fit within the framework of the comment form. Hopefully I have organized these comments in a manner that facilitates cross-walking them with the draft NRA and your analyses of stakeholder feedback.	
		I am writing based on over twenty-five years experience with researching and evaluating forest management and conservation topics and forest certification systems in the United States, especially but not only in Western states. My experience with FSC certification in the US is of similar duration, and includes serving as a regional standards coordinator, past board member, national standards committee member, and most saliently, a member of the prior incarnation of the FSC US Controlled Wood NRA Working Group (WG), during which time I submitted considerable information to the WG and FSC US regarding risk levels for many of the CW categories, and potential control measures.	
		I also have spent many years working with NGOs dedicated to forest conservation and ecosystem restoration in the US, both on their behalf and in the course of coordinating with them on behalf of FSC projects, client projects, and other initiatives. While I have not had the opportunity to solicit environmental NGOs' input to these comments, I did actively engage a number of FSC environmental chamber members and other environmental NGOs while serving on the prior incarnation of the CW NRA WG, and believe I have a good sense of their concerns and priorities, and the role they expect the FSC to play in the broader conservation and sustainable markets landscape.	
Х	General	Thank you for considering the perspectives below. I hope they enable FSC US to produce a final NRA that achieves a more reasonable and effective balance.	Environmental
		The FSC's official policies and standards for Controlled Wood and NRAs notwithstanding, it's my understanding and expectation that:  NRAs are intended to replace company-based risk assessments, in part because many were found to be ineffective and inaccurate, presumably as a result of certificate-holders' self-interest in under-estimating and avoiding risk designations and adoption of control measures.  NRAs should find a genuine balance between meaningful environmental and social protections, and practical, cost-efficient approaches to managing forest product supply chains. Controlled Wood isn't and shouldn't be about avoiding every possible risk in every possible place – but it should be reasonably effective at minimizing the risk of the highest priority controversial sources entering into FSC products. And the Controlled Wood system should clearly require certificate holders to take effective actions when there are serious, known controversial sources in their supply chains.	
Х	General	The current draft NRA is much improved over its predecessors in some specific regards, especially its organization and clarity. The improvements in the document's presentation are important and should be maintained. The NRA's further development of the idea of regional meetings also appears constructive, as far as it goes.	Environmental

R,C	General	Unfortunately, the substance of the draft NRA often fails to provide balanced and effective approaches. The current draft not only fails to correct some important shortcomings of the prior draft NRA (e.g., those I outlined in previous memos to FSC US), but has also eliminated some of the prior draft's most valuable and important content, including recognition of serious risks to some important, high priority HCVs. Meanwhile, the draft NRA retains and expands on some amorphous and low priority HCV definitions and risk designations that sound nice, but that are unlikely to translate into priority conservation actions, while still requiring significant time on the part of FSC and certificate holders to address. Similarly, the draft NRA has failed to identify meaningful solutions to some gaps and challenges with the prior draft's Control Measures, and instead has defaulted to Control Measures that largely do not appear to require meaningful outcomes, and that suffer from additional loopholes.  In other words, the current draft's approach appears to be the worst of both worlds – for certificate holders, it would still require considerable time and effort, while for imperiled HCVs and the FSC's brand integrity, it may do very little, thus leaving the FSC and certificate holders vulnerable to potential concerns about highly controversial sources within FSC labeled products.	Discuss with WG	Environmental
1,,0	General		Discuss With We	Environmental
R,C	General	AF&PA incorporates by reference the set of comments submitted by the National Council For Air and Stream Improvement (NCASI) in their entirety. You will also find reference throughout the responses to specific incorporations of comments by NCASI.	Discuss with WG	Economic
R,C	General	AFRC incorporates by reference the set of comments submitted by the National Council For Air and Stream Improvement (NCASI) in their entirety. You will also find reference throughout the responses to specific incorporations of comments by NCASI.	Discuss with WG	Economic
E	General	There should be maps that clearly identifies specified risks in the country.	Consider incorporating small simple maps into the document	Economic
			Consider developing an executive summary after	
Е	General	An executive summary with general maps would be very helpful for CHs and CBs for the upcoming updating of DDSs.  The FSC program (COC, CW) is becoming increasingly complex and time consuming for certificate holders.	the NRA is approved	Economic
		As an example, to become properly educate on the new CW NRA and prepare comments for this document, we read nearly 420 pages of		
Х	General	material and participated in a webinar (as instructed by the website's "Recommended Review Process").		Economic
		Thank you for the opportunity to provide comment on the second draft of the FSC US Controlled Wood National Risk Assessment. As a FSC CoC/CW certificate holder Drax Biomass has considerable stake in the outcome of the NRA. These comments detail our praise and		
		criticism of the NRA as it applies to our sourcing area. We have also provided answers to pertinent questions posed by FSC on the		
Х	General	Controlled Wood National Risk Assessment – Second Public Consultation Comment Form, attached as Appendix A.		Economic
		Drax Biomass sincerely appreciates the opportunity to provide comment to FSC's U.S. NRA. Please do not hesitate to contact us for		
Χ	General	further input or clarification. We look forward to participation in the Controlled Wood Regional Meetings.		Economic

		Thank you for the opportunity to provide comment on the National Risk Assessment FSC-NRA-USA V2-0. PotlatchDeltic regularly		
		evaluates certification products to help us meet our stewardship goals, those of our customers and to meet market demand for certified		
		products in a cost-effective manner. Potlatch owns FSC certified forest lands and maintains CoC/CW certificates for manufacturing		
		facilities located in the Lake States and Southern FSC regions. We have been involved in FSC certification and standard development		
		since 2004. The following comments are provided in support of FSC's efforts to provide efficient certification standards that meet		
		environmental, social and economic objectives for CoC/CW certificate holders.		
ĺ		We appreciate the opportunity to have input on FSC's efforts to improve your certification products and to provide consistent resources		
		to certificate holders. All the literature cited in our comments is referenced by hyper link. Please feel free to contact either of us with		
Χ	General	questions.		Economic
		Recognition of PEFC Certification to Control for Specified Risk		
		The Program for the Endorsement of Forest Certification (PEFC) framework and PEFC recognized forest certification programs in the US		
		contain adequate measures to control for all NRA specified risks. All wood from PEFC recognized FM certification programs sourced		
		under a current, valid certificate should meet CW requirements and no additional control measures should be required. The NRA should		
C	General	state that PEFC recognized certification is an accepted control measure for all specified risks.	Discuss with WG	Economic
	55.16141	We fully support and endorse the NCASI comments dated 02-20-2018 and submitted to FSC-US as part of the public consultation,		200
		including the accompanying and separate narrative document that NCASI submitted, "NCASI Technical Comments FSCUSNRA.pdf."		
		The NCASI comments are to be considered fully incorporated into Resolute's comments herein. For the sake of brevity, the NCASI		
		comments are not copied and repeated herein, but they are to be considered as such. The comments herein are in addition to the NCASI		
		comments. Note that we may refer to certain of the NCASI comments for emphasis, but, again, all of the NCASI comments are to be		
R,C	General	considered incorporated into these comments, though they are not necessarily copied in or directly referred to.	Discuss with WG	Economic
r,c	General	The Society of American Foresters (SAF) appreciates the opportunity to submit comments on the Forest Stewardship Council's (FSC)	DISCUSS WITH WG	ECOHOITIC
		second draft of the US Controlled Wood National Risk Assessment (hereafter "Risk Assessment"). SAF is an independent, nonprofit,		
		professional society, focusing on the full spectrum of forestry issues that emerge throughout the US and representing a diverse		
		membership of 12,000 professionals across academia, government, private industry, and consulting.		
		SAF and its members are committed to promoting and improving sustainable forest management, which protects watersheds and soils,		
		improves air quality, creates wildlife habitat, supports well-paying jobs, and provides renewable energy and essential forest products. As		
		tools to promote active management and improve forestry practices, SAF supports all credible forest certification systems, including		
		FSC, the Sustainable Forestry Initiative, and the American Tree Farm System. Certification systems like these help drive improvements		
		in forest management practices and build greater awareness and understanding of the importance of forests and forest management to		
		society and our everyday lives.		
		SAF shares FSC's goal of continuously improving forest management practices and limiting forest conversion. Like FSC, SAF also believes		
		that increasing the demand for forest products will lead to a greater appreciation and investment in forests. With 58% of US forests on		
		private lands, creating value in forests, whether it be economic, social, or environmental, is an essential part of maintaining and		
		increasing forest cover across the US.		
		Thank you for this opportunity to submit comments. SAF and its members are invested in the promotion and improvement of forest		
Х	General	management activities and BMPs, and look forward to working with FSC in the future to continue these efforts.		Economic
1				
		Our shared goal remains responsible forest management supported and encouraged by viable forest certification systems on privately		
		owned forests, particularly for large landowners. The Risk Assessment must complement a viable US Controlled Wood Standard. The		
		limited availability of FSC 100% certified fiber in the US impacts certification decisions, and companies that maintain FSC certification		
		must consider implementation costs and how they compare to the benefits of certification. In addition, the benefits of "mitigation		
		actions" to consumers must be clearly articulated, economically feasible, and not overly burdensome. Without these assurances, the		
Χ	General	value of FSC certification for landowners in the US may be diminished, which would be a disservice to our shared goals.		Economic

		The National Council for Air and Stream Improvement, Inc. (NCASI) offers the following comments regarding the NRA. NCASI is a non-profit organization that serves the forest products industry as a center of excellence for providing technical information and scientific research needed to achieve the industry's environmental goals and principles. NCASI (http://www.ncasi.org) has a long history of research investigating forestry environmental and sustainability issues in collaboration with state and federal agencies, universities, and others. Because NCASI is interested in developing cost-effective measures for sustainable forest management and fiber sourcing, we		
		offer several observations regarding two sections of the NRA in particular: Controlled Wood Category 3, "Wood from forests in which		
V	Cananal	high conservation values are threatened by management activities," and Controlled Wood Category 4, "Wood from forests being		F
X	General	converted to plantations or non-forest use".  Recently, the Forest Stewardship Council® (FSC®) US released the second draft of the FSC US Controlled Wood National Risk		Economic
		Assessment2 (hereafter "NRA") for public consultation. Because NCASI is interested in developing cost-effective measures for		
		sustainable forest management and fiber sourcing, we offer several observations regarding the NRA in general and two sections in		
		particular: Controlled Wood Category 3, "Wood from forests in which high conservation values are threatened by management		
		activities," and Controlled Wood Category 4, "Wood from forests being converted to plantations or non-forest use". In general, the NRA	Review risk designations	
		includes statements about species and population trends, threats to HCVs, and impacts of forestry practices to HCVs that are not	for frequency and	
		supported by authoritative sources. The NRA also appears to sometimes treat ephemeral, rare, and even hypothetical events as serious,	severity of threats and	
		ongoing threats. We suggest that FSC US focus on frequent, systemic, and pervasive risks to forests due to forestry practices, and that	then discuss with WG as	
R	General	those effects be documented based on the scientific literature or some other authoritative source.	appropriate	Economic
		Good afternoon,		
		Our team at Danzer has reviewed the upcoming changes to the FSC CoC and CW standards and really, the main thing		
		we question is the critical biodiversity area like the Appalachian - where we could have potential sources. How did they		
		determine at threat to HCV in the USA when, in general, good forest management is in place and working to protect		
		our forests.		
Х	HCV 1: CBA	Thank you so much!		Economic

At least in the Pacific Coast Region, the NRA's focus on Critical Biodiversity Areas appears to be diverting the FSC and certificate holders' limited resources away from HCV occurrences that are of higher conservation priority, that will correspond to more focused and meaningful Control Measures and conservation actions, and that can correspond to more serious brand and supply chain risk if left unaddressed.

In this region, the Klamath-Siskiyou sub-region and Central California Sierra Nevada mountains surely do constitute areas of high biodiversity. However, simply designating these large sub-regions as areas of risk is unlikely to translate to meaningful Control Measures that achieve high priority forest conservation and restoration objectives for imperiled forest resources and ecosystems. Partly this is an inherent, structural problem with identifying Control Measures for relatively large areas that are defined as HCV because of the entirety of their biodiversity, and that not only are highly biodiverse, but also contain a wide range of resource conditions, forest ownerships, forest management contexts, etc. Under such circumstances, there is little reason to think that any particular values will be properly addressed by Control Measures. Likewise, it will surely be impractical if not impossible for all values and situations in these areas to be properly addressed by Control Measures. Indeed, it is perhaps telling that in the discussion of risk in the Klamath-Siskiyou at page 98, the NRA fails to mention prominent threats such as serious gaps in streamzone protections for salmonids and steelhead on non-federal forests in Oregon, salvage logging on National Forests, exemptions that forest landowners have received or have proposed from the Endangered Species Act, logging of old growth on National Forests and BLM forests, etc. Similar deficiencies may well exist in the NRA's discussion of the Central California, and perhaps the other CBA regions covered by the NRA.

Of course one simple solution would be for Control Measures to state that any significant logging in these two regions – or in the NRA's other CBAs – is incompatible with maintaining the HCVs, given that their defining feature is all of their biodiversity. While this could be the best outcome for the ecosystems, it would presumably not be viewed as a balanced solution in keeping with the FSC's ethic. And for especially large CBAs like Central California, it again raises the question of whether the FSC is focusing its energy on the highest priority locales and HCVs.

Surely it would make more sense for the NRA to focus on more narrowly and clearly defined HCVs, not just in these bio-regions but also HCV 1: CBA across the broader forest landscape, both from the standpoint of focusing Control Measures on more specific resource values and

Discuss with WG

Environmental

Ouachita River HCV CBA The designation of this CBA based on high endemism, it's inherent conservation value and location within a predominately forested area is supported by the best available data. However, it is not clear what objective data was used to assign specified risk to this CBA from forestry. The reference to "heavy biocides and fertilizers" associated with pine plantations threatening aquatic biodiversity is not supported by objective data within the NRA.  If there is additional objective information on forestry BMPs specific to the three-county area that support the following statement in the NRA (pg. 32), it should be referenced in the NRA and vetted with the AR Forestry Commission.  "Stresses caused by incompatible forestry practices include non-point source pollution (erosion & sedimentation) from operations that are not using best management practices, heavy use of biocides and fertilizers associated with plantations, and extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation."  Forestry BMP implementation rates are assessed in AR every two years using the Southern Group of State Forests BMP monitoring framework (http://www.southemforests.org/water/SGSF&20Regional%20BMP%20Framework\$20Protocol%20publication_2007.pdf).  The most recent information on BMP implementation assessed and reported by the Arkansas Forestry Commission indicated that the Ouachita physiographic region had the highest BMP implementation rate of all regions at 90% (range 86-90). BMP implementation rates were further divided and reported by Arkansas Forestry Commission District. Districts 2 and 6 overlap the Ouachita River CBA and implementation in both districts was the highest of any district – both at 191%, see AR BMP implementation survey (http://www.aad.arkansas.gov/Websites/aad/files/Content/S944990/2010-11_BMP_mp_Report_CORRECTED.pdf).  Look for additional inforamtion sources and then discuss with WG  The NRA (pg. 157-168) identifies areas that qualify as HCV 1 based on "a high	
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considered Critical Biodiversity Areas, based on an analysis by The Nature Conservancy. The NRA indicates that this threshold was selected to ensure known areas of high biodiversity were included.	
Some of the Critical Biodiversity Areas (CBAs) are quite large including, for example, approximately three-fourths of California, ≈35% of Florida, and a large area in the Appalachians. It is possible that the very large grid squares used for classification followed by the smoothing step to create regions led to these large CBAs. While it would be difficult to use maps with highly patchy areas of conservation priority, it is possible that the methods used went too far in the other direction. Thus, we encourage FSC US to re-evaluate	
their methods for delineating CBAs (e.g., evaluate implications of different grid sizes) to ensure that they encompass only areas with    HCV 1: CBA   high endemism of forest-associated species.   Discuss with WG	Economic

				1
		We also encourage FSC US to consider whether there are opportunities to address two additional aspects of their methods. First, as		
		acknowledged in the NRA (pg. 169), "One limitation of the NatureServe dataset is that it is driven by survey effort". In other words,		
		surveys for species have not been conducted uniformly across the landscape. Therefore, areas may appear to have a high level of species		
		1 1 /	Note that we are unable	
		opportunities to weight the index based on survey effort. Second, the NRA (pg. 169) acknowledges that "this index is influenced by non-	to manipulate the	
		' '	dataset in the ways	
		NRA (pg. 169) assumes that "in areas that are predominately forested or forest matrix (and where forest management activities are	suggested, because we	
		more likely occurring) it should be representative of biodiversity in those areas." However, when selecting Priority Species for	only have the index	
		assessment in the NRA, the authors of the NRA appear to have filtered species based on their association with forests. Basing the	number per data cell	
R	HCV 1: CBA	species richness index only on forest-associated species would strengthen the NRA.	with which to work.	Economic
		Forestry impacts on water quality		
		For several CBAs, the NRA indicates that forestry operations are adversely affecting water quality. For example, "operations that are not using best management practices," and "outensive manipulation of vegetative cover that affects infiltration and runoff of practicity."		
		using best management practices" and "extensive manipulation of vegetative cover that affects infiltration and runoff of precipitation"		
		are identified as a threat for the Ouachita River Valley CBA (pg. 100). "Reduced water quality partially due to loss of near-stream		
		forested habitat", "sedimentation associated with forestry practices", "lack of BMP implementation," and "severe erosion of river		
		banks" are identified as threats for the Central Appalachians CBA (pg. 101). The NRA also identifies many of these threats for the		
		Southern Appalachian CBA (pg. 101). For the Florida Panhandle CBA, the NRA (pg. 102) identifies "point and non-point source pollution		
		(including sediments from forestry operations due to insufficient ground cover and inadequate buffers)" as a threat. Thus, the NRA		
		appears to conclude that forestry practices are having a pervasive and adverse effect on water quality in many of the CBAs.		
		The statements above about threats to water quality are not supported by the scientific literature or by surveys conducted by state		
		forestry agencies. Furthermore, the statements conflict with Section HCV 4 Critical Ecosystem Services (pg. 213) which concludes that		
		"Evidence of the effectiveness of forestry BMPs, combined with the reported levels of compliance, indicates that there is a high		
		likelihood that HCV 4 [Critical Ecosystem Services] are being effectively protected throughout the assessment area through the		
		implementation of forestry BMPs associated with State nonpoint source pollution programs." The critical ecosystem service referred to	Look for additional	
		here is water quality.	information regarding	
			BMP implementation in	
			CBAs; note that the scale	
		,	of the HCV4 and HCV1	
		programs that address multiple categories of practices such as timber harvesting, forest road construction and maintenance, log	assessments are	
		landings, skid trails, streamside management zones, and stream crossings. Twenty-five states had written new BMP guidelines or	different and that BMPs	
		revised their guidelines within five years of the survey by Cristan et al. (2017). Information about BMP recommendations,	were designed to protect	
		implementation rates, and research findings is available through the National Association of State Foresters at	water quality but their	
		https://stateforesters.org/action-issues-and-policy/state-forestry-BMPs-map-o-o.	reffectiveness at	
		Forestry BMPs are based on a substantial body of scientific research that has identified the most important causes of nonpoint source	protecting biodiversity is	
		(NPS) pollution in managed forests and has demonstrated that the NPS control and mitigation measures embodied in BMPs are	not fully understood;	
R	HCV 1: CBA	effective. Forestry BMP programs are typically backed by mandatory compliance with the Federal Clean Water Act and by state	discuss with WG	Economic

		Herbicide Application		1
		The NRA identifies "herbicide application[s] that have the potential to inhibit native understory communities" as a threat to longleaf		
		biodiversity values in the Southern Appalachians CBA (pg. 101), the Cape Fear Arch CBA (pg. 102), and the Florida Panhandle CBA (pg.		
		102).		
		Herbicides are an important tool used to manage the composition and structure of plant communities, including herbaceous vegetation,		
		in commercially managed forests. For many reasons, herbicide use does not represent a threat to biological diversity. The objective of		
		herbicide use is not to provide complete control of competing vegetation, but to enhance survival and early growth of planted trees and		
		provide a temporary growth advantage (Miller and Miller 2004). Managers apply herbicides infrequently during a typical forest rotation,		
		use concentrations well below label maximums, and use many techniques and practices to reduce risks and the potential for herbicides		
		to affect non-target areas (NCASI 2015).		
		When establishing planted pine forests, targeted herbicides are often used to suppress young hardwoods, thus enhancing herbaceous		
		understory communities (Miller and Chamberlain 2008; Jones et al. 2009a; Lane 2010; Lane et al. 2011a, 2011b; Jones et al. 2012).		
		Miller et al. (1995, 2003) studied vegetation response to various levels of herbicide treatments at multiple sites across the Southeast.		
		Miller et al. (2003) concluded that "[h]ardwoods and shrubs remained suppressed on all sites 15 yr after early woody control		
		treatments, which altered not only stand structure but woody composition as well. It is apparent that intensive woody control		
		treatments during establishment can greatly limit woody species reoccupation through midrotation even in small stands within forested		
		landscapes."		
		Tarius capes.		
		Prescribed fire can also be used when establishing stands, but it is increasingly difficult to use on private lands due to concerns about		
		issues such as public opinion, risk of liability, air quality and smoke regulations, residential development, cost limitations, and limited		
		burning days (Haines et al. 2001, Melvin et al. 2015). Miller and Chamberlain (2008) found that, in eastern Louisiana, site preparation		
		with herbicides reduced woody plant cover and promoted development of the herbaceous plant community, but sites with burn-only site		
			Revisit information	
		preparation with fire and herbicide "may increase availability of early successional vegetation associations on managed forest	sources regarding	
		landscapes and may extend the time stands stay in this successional stage".	herbicide use as a threat	
R	HCV 1: CBA	· · · · · · · · · · · · · · · · · · ·	to biodiversity	Economic
		Fertilization	•	
		The NRA states that "heavy use of biocides and fertilizers associated with plantations" is a threat to the unique aquatic biota in the		
		Ouachita River Valley CBA (pg. 100). Managed forest stands are not all fertilized. When stands are fertilized, it is once or twice during a		
		30- to 60-year rotation at relatively low rates. For example, of approximately 44.4 million acres of pine plantation in the South (Miles		
		2018), only 500,000 to 1.2 million acres (1.1%-2.7%) are fertilized annually		
		(http://www.forestproductivity.net/fertilization/ror_estimates_sept_2010.pdf). On sites where fertilizers are used, streamside		
		management zones and other best management practices, which are implemented at high rates (Cristan et al. 2017), are effective at		
		protecting water quality (Cristan et al. 2016, Tatum et al. 2017). We encourage FSC US to recognize in the NRA that fertilizers are used	Review additional	
		infrequently in forestry and that forestry best management practices, which are implemented at high rates, are effective at protecting	information and then	
R	HCV 1: CBA	water quality. Operational use of fertilizers does not represent a pervasive threat.	discuss with WG	Economic

		Management of Longleaf Pine Forests  For several CBAs, the NRA suggests that forest management is adversely affecting biodiversity values associated with native longleaf pine forests. For example, the threat assessment for the Cape Fear Arch CBA, the NRA states that "Longleaf pine biodiversity values can be adversely affected by forest management activities via conversion of longleaf (Pinus palustris) to other pine types, and the use [of] management techniques, including herbicide application that have the potential to inhibit native understory communities" (pg. 102). Similar statements are included in the threat assessments for the Florida Panhandle CBA (pg. 102), the Southern Appalachians CBA (pg. 101), and the Native Longleaf Pine Systems Priority Forest Type (pg. 115).  We encourage FSC US to consider the information presented below related to Native Longleaf Pine Systems (Section 2.2.2.2). Based on the peer review literature, there is a strong technical basis to suggest that operational forest management in southern pine forests can be compatible with providing forest structure, ground cover characteristics, and prey suitable for many species associated with native longleaf pine forests subjected to historical disturbance regimes (Greene et al. 2016). Furthermore, the continued and expanded	Note that just because sustainable management can be implemented in LLP doesn't mean is is	
		markets for longleaf pine forest products is essential for the continued restoration of this species. A brochure addressing the importance	done consistently; review	
		of markets for restoration of this forest type is available through the Longleaf Alliance (office@longleafalliance.org) and was endorsed	additional information	
		by organizations such as the American Forest Foundation, Society of American Foresters, Southern Group of State Foresters, the U.S.	and then discuss with the	
R,E	HCV 1: CBA	Forest Service, the National Wildlife Federation, The Nature Conservancy, and the Southeastern Association of Fish & Wildlife Agencies.	WG	Economic
			Review additional	
		Management of Decesins	inforamtion sources	
		Management of Pocosins  The NRA indicates that establishment of planted pine forests results in the less of highly presty in pocosins (ng. 101). However, Mitshell,	regarding threats to cove	
		The NRA indicates that establishment of planted pine forests results in the loss of biodiversity in pocosins (pg. 101). However, Mitchell et al. (1995) found that the small mammal species in planted pine forests were similar to those in native pocosins with the addition of a	sites; note that basic ecology indicates that	
		few early successional types. Karriker (1993), in the same study area, found that bird communities in pocosins and planted pine forests	changest to structure and	
		were similar if forest structure was similar. Demarais et al. (2017), based on an extensive review of the literature, noted that "[a]	species composition will	
		typical intensively managed landscape contains a variety of stand ages, forest types, and other features (e.g., streams, mature forest	affect biodiversity;	
		stands, set-aside areas) that provide habitat for a diversity of terrestrial vertebrate species." Thus, we encourage FSC US to recognize	discuss the above with	
R,E	HCV 1: CBA	that establishment of planted pine forests does not inherently represent a threat to HCVs associated with pocosins.	the WG	Economic
		The NRA's threshold for identifying priority rare, threatened, and endangered (RTE) species is seriously off-target for an assessment of risk to RTE species and biodiversity in the US. As described at page 103 of the NRA, recognition was effectively limited to species listed as G1 in the NatureServe system (in addition to being limited based on their "S" rankings). In other words, only the very most globally threatened species were considered, largely regardless of their level of endangerment within the US despite the fact that many species are highly endangered within the US while not being listed as G1 due to their status in other countries or other reasons.  Just a few examples from Western states of the many species excluded by this methodology that are officially listed as threatened or endangered in the US, that are at least partly forest dependent, that are often threatened by forestry activities, and that that arguably of especially high conservation priority and high profile: various cutthroat trout, various Pacific salmonids and steelhead, bull trout, marbled murrelet, Northern spotted owl, Canada lynx, and woodland caribou.  Unfortunately, there are many forest species across the US that are endangered and at risk from forestry activities. Thus while it may		
		inherently involve some subjectivity and expert judgment, it makes sense for the NRA to focus on species that are of particular conservation concern, of particular public profile, and that can serve as indicator and "umbrella" species for threatened ecosystems and biodiversity more generally. This was precisely the approach taken with the prior draft NRA. At a minimum, future drafts of the NRA	Reach out to experts regarding identification of HCV 1 species and	
R	HCV 1: Specie	should also recognize the priority species identified in the prior NRA, and ensure they are covered by Control Measures.	then discuss with WG	Environmental

		The inclusion of ivory-billed wood pecker as a specified risk is a distraction to risks that certificate holders can respond to and significantly undermines the NRA's credibility. The last documented ivory-billed woodpecker sightings were in Cuba in the 1970s and in the United States they were last documented on the Singer tract in Tensas Parish, LA in 1944, USFWS. https://www.fws.gov/ivorybill/photoalbum/		
		The Luneau sighting in April 2004 was never confirmed and its credibly was challenged within the ornithological community, see Sibley et al. (http://science.sciencemag.org/content/311/5767/1555.1.full?ijkey=8Rlu7gVofPs4Y&keytype=ref&siteid=sci).		
R	HCV 1: Species	Some of the less tangible aspects surrounding the Luneau sighting were described by Jack Hitt in Bunch of Amateurs. Admittedly this is not a purely scientific reference, however, the Hitt reference, pages 75-81, provides extended context to the credibility issues that including the ivory-billed woodpecker in the NRA creates. We offer it with a smile and an appreciation for the task of wading through the depths of science that are necessarily part of a FSC NRA comment review (https://books.google.com/books?id=UsNEKAa8nTsC&pg=PA81&lpg=PA81&dq=ivory+billed+woodpecker+ghost+whisperer&source=bl&ots=vXYGK_rRgL&sig=KnB0cRhB4cPA-4PEGdf7h6-hg-l&hl=en&sa=X&ved=0ahUKEwij_l-hoL3ZAhVS22MKHT-lCeYQ6AEIXzAM#v=onepage&q=ivory%20billed%20woodpecker%20ghost%20whisperer&f=false).	Consider filtering HCV 1 to include only species with documented occurrences in the last two decades; discuss with WG	Economic
R	HCV 1: Species	In general, indicators of risk for Priority Species are conservation status ranks assigned by NatureServe and threats are derived from qualitative descriptions of threats prepared by conservation organizations and agencies. The designation of the Ivory Billed Woodpecker (Campephilus principalis) as a Priority Species is apparently the basis for the Specified Risk designation for HCV 1 in the Mississippi Alluvial region (NRA pg. 95). The last confirmed sightings of the Ivory Billed Woodpecker were in the 1940s in Louisiana, and it has been presumed extinct for many decades. Although two sightings were reported in 1999 and 2004, there was no confirmation of those sightings and there is no evidence that this species is extant. Even though this species has not been confirmed to exist, the NRA states that logging is among "historic major threats and would likely still be if the species is extant". Thus, the NRA assigns Specified Risk to this likely extinct species on the basis of a hypothetical threat, which is in turn used to assign Specified Risk to the Mississippi Alluvial region. Even though this species is included in the NatureServe database, we encourage FSC US to remove it from the NRA, to focus on factors that potentially represent frequent, systemic, and pervasive risks to species and ecosystems, and to base the NRA on documented evidence that these factors are adversely affecting the species or ecosystem of interest.	Consider filtering HCV 1 to include only species with documented occurrences in the last two decades; discuss with WG	Economic
R	HCV 1: Species	The NRA also designates the Dusky Gopher Frog (Lithobates sevosus) as a Priority Species. Although the map on the U.S. Fish & Wildlife Service Environmental Conservation System4 suggests that the Dusky Gopher Frog is distributed throughout two counties in Mississippi, it is known from only a few isolated wetlands. Because the dusky gopher frog moves a limited distance (<1,000 feet) from breeding ponds primarily into upland pine-dominated forests, the geographic area designated as being at specified risk because of this species could be delineated with finer resolution, i.e., focused on occupied ponds and the areas immediately surrounding them. More detailed information about the location of occupied ponds is available in the recovery plan5 for the Dusky Gopher Frog.	Look for more refined species range data and then discuss with WG	Economic
R	HCV 2: IFLs	Intact Forest Landscapes (IFLs) are both relatively rare within the US and a global conservation priority – including for the FSC. Equally important, the FSC requires that NRAs be developed at scales at which areas of risk can be distinguished from areas of non-risk. Thus it makes no sense for the NRA to deny recognition and protection to those IFL occurrences that are unprotected, even while most occurrences do have some level of protection. As noted in the NRA at page 110, there are IFL occurrences outside of protected areas. Moreover, to the extent these areas are covered by the Forest Service's Roadless Rule, that Rule is not a form of permanent protection, but rather could be rescinded by an Administration such as the current one. Indeed, contrary to the NRA's statement at page 110, the Roadless Rule does not constitute "legislative" protection. It is correct that the roadless rule is an administrative rule, used to implement legislation. In itself, the Roadless Rule is not legislative.	Discuss with WG	Environmental

			T	T
E	HCV 3: Late Successional Bottomland Hardwoods	1st sentence. Bottomland hardwoods or floodplain forests are commonly inundated during the dormant season. If done during the growing season you'd never get any seedling reproduction and, secondarily, harvesting costs would increase.	Review information sources and edit as appropriate	Economic
V	HCV 3: Late Successional Bottomland	Late succession species do not maintain themselves. Sooner or later, barring a catastrophic event such as fire or hurricane they succumb to shade tolerant species, such as hornbeam and beech in bottomlands. Where they do hold are in extended flooded area such as muck swamps. Trees are like people: they live to a given age and die. The adage that we want to restore the forest to the time Columbus discovered is wishful thinking. Yes, most stands had reached maturity, but other stands were in different stages of	арргорпасс	
X	Hardwoods	development.		Economic
R	HCV 3: Late Successional Bottomland Hardwoods	Late succession at 80 years is not valid. I know of sweetgum stands at 80 years old that are being succeeding by more shade tolerant oaks.	Look for additional inforamtion sources and then discuss with WG	Economic
		Disagree that harvesting systems in the Coastal Plain are usually done during periods of high water. Accessibility has a large effect on harvesting. Anyone ignoring that is incurring added harvesting costs. Likewise, the notion that bottomland hardwood forests harvested for pellet production is often portrayed that everything is processed for pellets. The landowner or the outfit doing the logging would be	Review information	
E		out of their mind to do that. The procedure is that anything of higher value would be sent for the manufacture of lumber, or veneer, or	sources and edit as appropriate	Economic
		pallets, or pulp. Economics come into play just as it would for any other forest activity. A significant difference between the Mississippi variey (MV) and Coastal Plain (CP) is that the shelterwood system (and other partial harvests) are more successful in the MV. The reasons are the prevalence of Nuttall and to a lesser degree Shumard oaks. The CP has Shumard to the south, but Nuttall is uncommon in our area.		
		This HCV could benefit from some refinement and clarification along with a more thorough review of available research.		
		First, it is unclear what the FSC NRA is trying to protect. Is it the bottomland hardwood system or just "late successional" bottomland stands? It does not seem appropriate to protect a seral stage unless the purpose is to promote old-growth on the landscape. And if that is the case, it should not be approached through this HCV designation.		
		The designation of a seral stage infers that the act of regeneration degrades the bottomland system. Temporary alteration of stand age structure should not be considered degrading to the system. A recent report by the Forest Stewards Guild (Ecological Forestry Practices for Bottomland Hardwood Forests of the Southeastern United States) recognizes this. This report details how active management and harvesting can help restore and maintain ecological function in bottomland hardwood stands. In addition, McKee et al. 2012 investigated the resilience of tupelo-gum forests to harvesting in the Mobile Tensaw River Delta (Long term site productivity of a tupelo cypress swamp). (hyperlinks in comment document)		
		According to Dr. Bob Kellison, former Director of the Hardwood Research Cooperative and NCSU professor (now retired), it is not realistic to expect a forest to remain in a static late successional phase, "Sooner or later, barring a catastrophic event such as fire or hurricane they succumb to shade tolerant species, such as hornbeam and beech in bottomland". Also, Dr. Kellison added that to "restore the forest to the time Columbus discovered is wishful thinking. Yes, most stands had reached maturity, but other stands were in different stages of development." (Kellison, personal communication, February 2018).		
		It might be argued that some form of uneven-aged management could be used on a limited basis (i.e. single-tree selection) which	Review the LSBH section	
Е		might maintain the predominant late-successional age structure of a stand, however, this could lead to degradation of the forest from both an economic and ecological standpoint. In fact, according to Kellison et al. 1997 (Kellison and Young 1997),	and consider edits for accuracy	Economic

		This HCV is not clear. The specified risk for late successional bottomland hardwood HCV references hardwood trees 70-80 years old and older and a cover type predominated by hardwood. These criteria do not provide a usable risk or a specific HCV. Hardwood trees older than 70-80 and/or stands of trees with hardwood trees older than 70-80 are harvested from FSC FM certified sources and flow through the system as certified content. Many hardwood species reach financial maturity at older age classes and many of the objectives in the FSC FM standard encourage older age classes on FSC certified lands and do not prohibit or discourage harvest. Management and harvest in these forest types and age classes is consistent with maintaining high conservation values on certified, working forest lands. CW criteria more stringent and/or less specific than FSC FM criteria is confusing and is not something CW certificate holders can respond to.		
		In addition to the lack of specificity FIA data do not indicate a decline of older age hardwood nor do FIA data indicate a decline in hardwood cover types.		
		If the HCV is old growth or primary hardwood forest this would be a small subset of stands containing 70-80+ year old hardwood trees and would need to be defined and supported with mapping of the refined HCV.  If the risk to this HCV is conversion of hardwood to pine or miss management of hardwood forests, as might be suggested by the reference to lack of forester training on hardwood management, those references are not supported by FIA and NRI data, which is the	Review the LSBH section and consider edits for accuracy; review additional information and then discuss with	
R,E		best available data sources on extent and trends of forest cover type and age class.  The NKA assigns specified kisk to late successional bottomiana narawood forests in the Mississippi Alluvial valley and in the portion of	WG	Economic
		the Southeast region that is in the Coastal Plain (pg. 208). The NRA (pg. 207) states that "'Late successional' is typically defined as beginning in the 70-80-year age range". Estimates from FIA (Appendix D) indicate that across the South, approximately 675 acres per year of late-successional bottomland hardwood forest were converted to nonforest conditions during the most recent inventory cycle. However, an average of >350,000 acres per year will be added to the late-successional cohort (>80 years old) over the next decade. Thus, each acre of late-successional bottomland hardwood lost annually to conversion over the last inventory cycle will be replaced by over 520 acres over the next ten years.		
		Threats identified in the NRA (pg. 208) include "incompatible forest management (results in changes to canopy age and structure, to hydrology and to available dead and down woody debris), pollution" and other factors. The NRA further states that "Forest management occurring within bottomland hardwoods is not necessarily in itself a threat, but how the management is applied". Kellison and Young (1997) reported that many bottomland hardwood forests in the eastern U.S. are "occupied by a degraded mixture of tree species, caused largely by repeated, incomplete harvests" and that "[the] recommended procedure for perpetuating viable hardwood forests is by management." Hicks et al. (2004) explain that many hardwood stands, either due to their stage of development or neglect, are in need of intermediate management operations such as thinning and improvement cutting. Authors such as Meadows and Stanturf (1997), Hicks et al. (2004), and Rousseau (2009) have provided guidance related to management of bottomland hardwood forests. A common theme of these papers is that harvesting practices such as clearcut, patch clearcut, and seedtree harvesting, which provide abundant light to the forest floor, have proven successful for regenerating bottomland hardwood forests, and that intermediate treatments such as thinning can further enhance success.		
	Successional		Review additional inforamtion sources and	
R		al. 2012, 2013; Sain et al. 2012). Harvesting in bottomland hardwood forests can increase abundance at the stand level of plant and	discuss with WG	Economic
11	I lai aw oous	par. 2012, 2013, Jam et al. 2012). Harvesting in bottomand hardwood forests call morease abundance at the stand level of plant and	aiscuss With WVO	LCOHOITIC

		The chart at Annex C of the FSC US Controlled Wood Risk Assessment; "Risk Designations by FSC US Region," under the heading "HCV3: Rare Ecosystem" specifies that this risk involves a Priority Forest Type: Mesophytic Cove Sites. Documents readily available to us do not detail how it was concluded that these sites are "rare." We find that to the contrary, professional foresters practicing in the region disagree that these sites are rare. To that point in a personal communication with Jamie Schuler, Ph.D. professor of silviculture, West Virginia University, Dr. Schuler confirmed that these sites are "very common."  Importantly, by their very nature, these cove sites include a stream which mandates that the core of hte site be treated as a Streamside Management Zone under West Virginia Silvicultural Best Management Practices.		
		We believe this risk designation greatly overstates the importance of and the threats to this forest type in West Virginia. Mesophytic		
		Cove Sites are not rare in West Virginia; rather they are common and typical of the topography of the state. These sites, according to		
	HCV 3:	FSC US Controlled Wood Risk Assessment, are not under significant threat from logging. To impose the costly and time consumptive	Review additional	
	Mesophytic	process detailed in the report is greatly burdensome to AWP and the landowner/supplier community for little if any benefit to the	inforamtion sources and	
R	Cove Sites	resource. We urge that FSC reconsider designating these sites as rare or threatened by forest management activity.	discuss with WG	Economic
		The NRA identifies a broad geographic area as having Specified Risk for Mesophytic Cove Sites. This area appears to include portions of several ecological regions (e.g., Appalachian Highlands, Coastal Plain, Interior Plateaus) that vary in terms of biophysical factors that influence occurrence of Mesophytic Cove Sites. The NRA could be strengthened by refining their delineation of the area having Specified Risk for this Priority Forest Type to omit areas with little potential to include the two ecological systems related to this Priority Forest Type, i.e., South Central Interior Mesophytic Forest (CES 202.887) and Southern and Central Appalachian Cove Forest (CES 202.373). With respect to Mesophytic Cove Sites, the NRA (pg. 205) states that "threats also include incompatible forest management that results in alterations to the structure and composition of the forest or conversion to other forest types (white pine), climate change, chronic deer herbivory, harvesting of herbs and pollution." It further states (pg. 205) that forestry practices can "affect herbaceous species composition or abundance and therefore the quality and functioning of the system." Thus, the NRA appears to consider changes in forest structure as a threat to this Priority Forest Type but presents no supporting scientific evidence. Harvesting cove sites can increase abundance at the stand level of plant and animal species associated with younger forests and diminish abundance of those associated with older forest. However, the implications of these changes for biodiversity obviously will vary depending upon the site-specific alterations to forest structure and the spatial and temporal scales of assessment. In some cases, responses to harvesting can be minimal. For example, Ford et al. (2000) surveyed cove-hardwood stands aged 15, 25, 50, and >85 years in the Southern Appalachian Mountains of northern Georgia. Of 69 species and/or genera of spring-late summer herbaceous plants recorded, the abundance of only four species differed among stand a		
		We encourage FSC US to recognize that short-term changes to forest structure, such as those associated with forest harvesting, do not		
	HCV 3:		Consider additional	
		issues identified as threats (e.g., deer herbivory, climate change, harvesting of herbs, pollution) appear to be outside the scope of an	information sources and	
R	Cove Sites	assessment of risk associated with sourcing wood.	discuss with WG	Economic

		The longleaf pine system developed under a historic fire dominated disturbance regime. As stated in the NRA, lack of fire is the biggest threat to this system. Without consistent fire on the landscape, harvesting can be considered an important tool to manage stand density (best if paired with fire). Very appropriately, the NRA does not list harvesting as a risk to the forest system. It also		
		acknowledges that this community type can be regenerated by planting (if the previous forest cover was native longleaf pine). It might be helpful to directly mention that harvesting is not a threat to the system so sourcing from and replanting longleaf areas is not inadvertently discouraged.		
		Also, it may be important to acknowledge and track the increase in longleaf pine acreage that has occurred in the recent decades as a concerted effort by private, federal, and state cooperators. The Longleaf Alliance, America's Longleaf Restoration Initiative, the Conservation Reserve Program, the Wildlife Habitat Incentive Program, and the Environmental Quality Incentives Program are prime examples of these efforts. While conversion of this type is still a concern, recognition of its potential increase due to active forest management is warranted.	Review text and consider edits as appropriate; consider organizations as	
		Finally, it is worth mentioning that many of the attributes associated with native longleaf pine systems can be achieved through management of other southern yellow pine species such as loblolly and slash. In a literature review conducted by Greene et al. (2016) managed pine forests, including loblolly and slash, provided the vegetation structure and composition for many species which were	participants for the regional meetings and/or in association with control measures; note	
	HCV 3:	historically associated with open pine conditions. Similarly, longleaf pine establishment (especially when it is driven by subsidies), can	the ecological impact of	
	Native	result in stands established on inappropriate soils or managed in a manner inconsistent with desired ecological values. In these	changing dominant	
	Longleaf	circumstances harvest and regeneration with another species may be entirely appropriate. Suggestion is that FSC recognizes these	species and/or structure	
E	Pine	complexities when considering the scope of this HCV and its associated mitigation measures.  For several CBAS, the NKA suggests that forest management is adversely affecting produversity values associated with native longiear.	on biodiversity	Economic
		pine forests. For example, in the threat assessment for the Cape Fear Arch CBA, the NRA states that "Longleaf pine biodiversity values		
		can be adversely affected by forest management activities via conversion of longleaf (Pinus palustris) to other pine types, and the use of		
		management techniques, including herbicide application that have the potential to inhibit native understory communities" (pg. 102).		
		Similar statements are included in the threat assessments for the Florida Panhandle CBA (pg. 102), the Southern Appalachians CBA (pg.		
		101), and the Native Longleaf Pine Systems Priority Forest Type (pg. 115).		
		Over the last several decades, many conservation programs and initiatives have supported efforts to increase the area of longleaf pine		
		forest in the Southeast and enhance the value of pine forests for species associated with open pine forests. Examples include the		
		Longleaf Alliance, America's Longleaf Restoration Initiative, the American Forest Foundation Habitat Credit Trading Program, the		
		Conservation Reserve Program, the Wildlife Habitat Incentive Program, the Environmental Quality Incentives Program, the American		
		Reinvestment and Recovery Act, and others. Strong markets for wood also enable landowners to invest in the management practices		
		required to establish and manage longleaf pine forests. As a result, the area in longleaf pine forest type and longleaf dominated forests		
		have been increasing for more than 15 years (Appendix C). At present, there are an estimated 4.7 million acres in longleaf-dominated		
		forests (personal communication; Robert Abernethy, Longleaf Alliance), and area in the longleaf pine forest type increased by 8%		
		between 2010 and 2016 (Figure C1 in Appendix C).		
		FSC US should not assume that modern forestry practices, including application of forestry herbicides, adversely affect biodiversity		
		values associated with longleaf pine forests. Rather, modern forestry practices provide opportunities to enhance biodiversity values in		
		pine-dominated forest types regardless of the overstory species. In South Georgia, Hedman et al. (2000) characterized plant		
		communities in 49 plots located in forest stands with overstories dominated by longleaf, loblolly (P. taeda), or slash pine (P. elliottii).	Note that just because	
		Their ordination and classification procedures consistently placed herbaceous plots into two groups which they described as "longleaf	the acreage is increasing,	
	HCV 3:	pine benchmark" (34 plots) and "nonbenchmark" (15 plots). Benchmark plots typically contained numerous herbaceous species	doesn't mean that it isn't	
	Native		rare; consider additional	
   D	Longleaf Pine		information sources and	Economic
<u></u>	rille	group consisted of plots in which the dominant overstory tree species differed including 12 naturally regenerated longleaf plots and 22	then discuss with WG	Economic

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		To its credit, the NRA still flags old growth in the Pacific Coast and Rockies regions as being at risk.		
		However, some of the NRA's language on old growth (at page 111) incorrectly dismisses logging-related threats and calls for		
		management that mimics fire, which sounds like long-discredited proposals to commercially log forests under that rubric. This		
		language needs to be corrected, lest it improperly inform subsequent development of Control Measures. While it is true that in some		
		specific forest types, past fire suppression has led to understory growth that increases fire risk, this needs to be tempered with an		
		understanding that these are often forests that are naturally fire adapted and even fire dependent, and that if any fuels reduction		
		occurs, it must be carefully limited to activities that do not include any commercial logging, road construction, etc., and that ideally rely		
		on controlled burns. Meanwhile, commercial logging and other forest management activities continues to be a serious threat to old		
		growth and late successional forests, e.g., on BLM and National Forests in West Coast states, and in some Western state forests.		
			Look for additional	
	HCV 3: Old	When revising the language on old growth, I would recommend consulting with Dominick DellaSala of the Geos Institute, who is an	inforamtion sources and	
R	Growth	expert of these ecosystems and their management, including in relation to fire risk, and who is quite familiar with the FSC.	then discuss with WG	Environmental
		The NRA (Pg. 110) indicates that there is Specified Risk on publicly-owned lands in the Pacific Coast and Rocky Mountain regions that		
		are not permanently protected (as demonstrated by GAP Status 1 & 2 areas in the U.S. Geological Survey's PAD US dataset). Publicly-		
		owned lands that are permanently protected in the Pacific Coast and Rocky Mountain regions and privately-owned lands are determined		
		to have low risk (pgs. 110-111).		
		The NRA (pp 199-200) includes a map for the western U.S. that shows essentially all forest land in the region as potentially having old		
		growth. It is unclear whether the map excludes public forests in Gap Status 1 & 2. While we are unaware of any published map of old-		
		growth forest per se, designating Specified Risk for all publicly owned forests in the Western U.S. that do not fall into Gap Status 1 or 2		
		implies that sourcing wood from all public lands is problematic. Many public lands provide timber from forests that are not old growth		
		and many forests classified as Gap Status 3 are managed under rigorous state and federal standards. We encourage FSC US to use a		
		finer resolution when identifying areas where harvest from old-growth forests could occur.		
		The NRA (pg. 111) also indicates that "[in] the western conterminous U.S., threats to old-growth forests include a lack of managing		
		younger forests with a goal of creating old-growth forests, invasive species, pests, pathogens, forest fragmentation, fire suppression,		
		catastrophic wildfires and especially climate change." While these factors may affect existing old-growth forests and the structure and		
			Reassess rationale for	
		significant current threats may not be due directly to logging/harvest". Because the stated focus of the NRA is to assess the risk of	specified risk; consider	
		sourcing materials deemed unacceptable by FSC, factors such as management of young forests, climate change, pests, etc. appear to be	additional information	
		outside the scope of the NRA. Further, the designation of Specified Risk for all publicly-owned forests in the Western U.S. that do not	sources and then discuss	
R	Growth	fall into Gap Status 1 or 2 will preclude management actions that could enhance earlier old growth development from younger forests.	with WG	Economic

Areas Forests, or within BLM forests. discuss with WG  Hopefully this goes without saying, but it should also be remembered that CW NRAs, even at their best, are not a substitute for either more comprehensive or more site-specific HCV interpretations and assessments, or for similar interpretations and assessments for legality, conversion, Indigenous and civil rights, or GMOs. As noted above, there's an argument for having the FSC US NRA focus on a sub-set of higher priority HCV interpretations, for example, given the specific and limited role of CW in the FSC system, and the realities of purchaser companies' leverage within CW supply chains. However, this also means that CW NRAs will not sufficiently define and identify HCVs for other purposes, e.g., National Standards and HCV Frameworks. Nor are CW risk assessments a substitute for the more site-specific and fine-scale assessments required for FSC Forest Management certification.  The draft NRA dismisses some important, high priority High Conservation Value (HCV) forest risks identified in the prior draft, e.g., flagship endangered species like Pacific salmonids, Northern spotted owls, and marbled murrelets, and also uninventoried roadless areas on National Forests and Intact Forest Landscapes lacking permanent protection. These are precisely the types of HCV interpretations and occurrences that the NRA should focus on, including given these resources' high levels of endangerment, their		th th si rc a p A a ir lc ir th	The fact that there is no consistent database for roadless areas across all ownerships and landscapes in the US should not preclude them from being addressed where important and feasible. Perhaps contrary to the NRA's claim at page 111, the prior incarnation of the WG, when faced with the limitations of the datasets described at page 111, did not conclude that roadless area consideration hould be limited to inventoried roadless areas on National Forests. Rather, the prior WG concluded that the risk of unprotected oadless areas is greatest on National Forests and Bureau of Land Management (BLM) forests, inclusive of but not limited to inventoried reas. Meanwhile, the suggestion at page 112 that relatively few BLM Wilderness Study Areas (WSAs) exist in forest zones should not preclude recognition for those WSAs that are forested, nor should it preclude recognition for other roadless areas in BLM forests.  At a minimum, the NRA should be revised to recognize the risk to roadless areas on National Forests and BLM forests, for roadless areas of 1,000 acres in size, including but not limited to those that are inventoried or designated as WSAs. Indeed, those that are not inventoried by the Forest Service or designated as WSAs by the BLM are probably at greatest risk from road construction, commercial pagging, and other harmful development. Local and regional conservation organizations can be consulted to help identify these areas, including as a means of overcoming potential gaps in the Forest Service and/or BLM's available data. Meanwhile, 1,000 acres is a hreshold commonly cited by ecologists and forest conservation organizations, including in comments that FSC US has previously eceived from conservation organizations during the NRA process.		
Roadless Areas Stated in the NRA), it does not constitute permanent protection, and also does not protect uninventoried roadless areas on National Forests, or within BLM forests.  Hopefully this goes without saying, but it should also be remembered that CW NRAs, even at their best, are not a substitute for either more comprehensive or more site-specific HCV interpretations and assessments, or for similar interpretations and assessments for legality, conversion, Indigenous and civil rights, or GMOs. As noted above, there's an argument for having the FSC US NRA focus on a sub-set of higher priority HCV interpretations, for example, given the specific and limited role of CW in the FSC system, and the realities of purchaser companies' leverage within CW supply chains. However, this also means that CW NRAs will not sufficiently define and identify HCVs for other purposes, e.g., National Standards and HCV Frameworks. Nor are CW risk assessments a substitute for the more site-specific and fine-scale assessments required for FSC Forest Management certification.  The draft NRA dismisses some important, high priority High Conservation Value (HCV) forest risks identified in the prior draft, e.g., flagship endangered species like Pacific salmonids, Northern spotted owls, and marbled murrelets, and also uninventoried roadless areas on National Forests and Intact Forest Landscapes lacking permanent protection. These are precisely the types of HCV interpretations and occurrences that the NRA should focus on, including given these resources' high levels of endangerment, their	HC	CV 3: Li	ikewise, the NRA should be revised to recognize that while the Roadless Rule for National Forest lands has been relatively effective (as		
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The draft NRA dismisses some important, high priority High Conservation Value (HCV) forest risks identified in the prior draft, e.g., flagship endangered species like Pacific salmonids, Northern spotted owls, and marbled murrelets, and also uninventoried roadless areas on National Forests and Intact Forest Landscapes lacking permanent protection. These are precisely the types of HCV interpretations and occurrences that the NRA should focus on, including given these resources' high levels of endangerment, their	нс	m le si o	nore comprehensive or more site-specific HCV interpretations and assessments, or for similar interpretations and assessments for egality, conversion, Indigenous and civil rights, or GMOs. As noted above, there's an argument for having the FSC US NRA focus on a ub-set of higher priority HCV interpretations, for example, given the specific and limited role of CW in the FSC system, and the realities of purchaser companies' leverage within CW supply chains. However, this also means that CW NRAs will not sufficiently define and dentify HCVs for other purposes, e.g., National Standards and HCV Frameworks. Nor are CW risk assessments a substitute for the more		Environmental
HCVs - risk with them. Indeed, if one of the fundamental purposes of Controlled Wood is to avoid potential branding risk associated with supply designation chain inputs from non-certified forests, then these are precisely the types of resources the NRA should address, rather than exclude.  Discuss with WG	нс	T fl a ir fu CVs - risk w	The draft NRA dismisses some important, high priority High Conservation Value (HCV) forest risks identified in the prior draft, e.g., lagship endangered species like Pacific salmonids, Northern spotted owls, and marbled murrelets, and also uninventoried roadless areas on National Forests and Intact Forest Landscapes lacking permanent protection. These are precisely the types of HCV interpretations and occurrences that the NRA should focus on, including given these resources' high levels of endangerment, their unction as indicators and "umbrellas" for more systematic ecosystem risks, and the high level of public interest and concern associated with them. Indeed, if one of the fundamental purposes of Controlled Wood is to avoid potential branding risk associated with supply	Discuss with WC	Environmental

			T T	
R	HCVs - risk designation HCVs - risk	For Controlled Wood Category 3, The NRA assessed risk for HCV1 Species Diversity based on potential impacts to Critical Biodiversity Areas (CBAs) and individual species. Some of the CBAs are quite large and apparently were identified based on richness of all species rather than forest-associated species only. Basing the species richness index only on forest-associated species, potentially weighting it based on survey effort, and examining the implications of different grid sizes may help ensure that CBAs encompass only areas with high endemism of forest-associated species. The NRA identifies forestry effects on water quality, forest-bridges, fertilizers, management of longleaf pine forests, and management of pocosins as threats to several CBAs. However, there is strong scientific evidence that forestry BMPs are being implemented at high rates, are effective at protecting water quality, and protect habitat for species associated with aquatic and riparian ecosystems. Forest herbicides and fertilizers are applied at relatively low rates and used infrequently. Furthermore, there is a strong technical basis to suggest that operational forest management of southern pine forests can be compatible with providing forest structure, ground cover characteristics, and many species associated with pocosins and native longleaf pine forests subjected to historical disturbance regimes. Because there have been no confirmed sightings of the Ivory-billed Woodpecker, we encourage FSC US to remove it from the list of Priority Species. We also suggest delineating the geographic area designated as having specified risk for the Dusky Gopher Frog with greater resolution by focusing no congelop ponds and the areas immediately surrounding them. For HCV 3 (Rare Ecosystems), the NRA considered three factors: old-growth forest (including primary forest), roadless areas, and Priority Forest Types. We encourage FSC US to use a finer resolution when identifying areas where harvest from old-growth forests could occur. In addition, while forest m	Review content and additional information sources and then disuss with WG  Review soures for validity and relevancy; review additional sources; review assessments for appropriate consideration fo frequency and severity of threast; discuss the above wth the WG	Economic
L,11	acaignation	and this appears to consider epitemeral, raic, and even hypothetical events as serious, ongoing threats.	above will tile WO	LCOHOITIC
E	Pg 102	limate change	edit	Economic
E	Pg 102	limate change	edit	Economic

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F	Pg 120	Intension	edit	Economic
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	. 8		Cart	200
		'FSC-US Draft HCVF Assessment Framework,' and 'Common Guidance for the Identification of HCV.' are both referenced without proper		
E	Pg 91, 166	citation.	cite accurately	Economic
	,		,	
		FSC-US Draft HCVF Assessment Framework,' and 'Common Guidance for the Identification of HCV.' are both referenced without proper		
E	Pg 91, 166	citation.	cite accurately	Economic
			Review accuracy of text	
E	Pg 98	"The portion of the CBA in the Rocky Mountain region"	and edit as appropriate	Economic
			<u> </u>	
_			Review accuracy of text	
E	Pg 98	"The portion of the CBA in the Rocky Mountain region"	and edit as appropriate	Economic
		Specificity in Risk Assignment and Conservation Values		
		When enumerating a specified risk, it is helpful for FSC to provide as much specificity as possible on the factors that are elevating risk		
	Risk	and the conservation value that is threatened. Specifics help CoC/CW certificate holders develop processes and tools to address the risk and/or exclude unacceptable materials from sourcing. For example, late successional bottomland hardwood is identified as a HCV with	Davian taxt and add	
	_	1 '	Review text and add	
D	Designation	threats and/or to develop control measures to avoid it as an unacceptable source.	additional specificity as appropriate	Economic
N	3	The NRA's Control Measures also contain a wide-open loophole, as a result of a mis-application of the concept of Scale, Intensity, and	арргорнате	LCOHOITIC
		Risk (SIR) at CMs 3.c and 4.c (at pages 120 and 134). Inasmuch as different Control Measures are appropriate for different size		
		Organizations, or in response to other SIR variables, then those alternate Control Measures should be defined by FSC US, with their		
	Scale,	applicability subject to thresholds for Organizational size (or other relevant SIR variables) that are also specified by FSC US. Certificate		
	Intensity,	holders have an inherent self-interest in underestimating the risk and intensity of their operations, and any SIR-based approaches should	Review and discuss with	
C	and Risk	be developed through more objective processes.	WG	Environmental
	una ma	De dereloped allough more objective processes.		Z.IVII OIIIIICIICAI
		The NRA contains multiple citations that refer to non-peer reviewed literature as evidence of real HCV threats. These sources, such as	Review soures for validity	
		regional conservation plans, contain assumptions that are not backed up by evidence or controlled scientific investigation. It is not	and relevancy; review	
	Sources of	appropriate to assign risks based on assumptions. Recommendation is to conduct a more comprehensive literature search and remove	additional sources and	
E,R		perceived risks which do not have adequate evidence, therefore cannot be considered "frequent, systemic, or pervasive".	edit text as appropriate	Economic
		II		

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		1. Ouachita River Valley CBA –There is an unsubstantiated claim of "heavy biocides and fertilizers" associated with pine plantations		
		threatening biodiversity. There is also an assumption that lack of BMP implementation is leading to erosion and sedimentation.		
		State BMPs address erosion and sedimentation as well as fertilizer and herbicide application. A survey by Cristan et al. 2017 reveals		
		that BMPs are implemented at relatively high rates across the entire United States. Fox et al. 2007 specifically examined the		
		effectiveness of BMP mandated Stream Side Management Zones (SMZs) for protecting water quality following fertilization. Tatum et	Review additional	
	Sources of	al 2017, reviewed the effectiveness of BMPs for reducing the risk to aquatic organisms from forest herbicide applications. (hyperlinks in	inforamtion sources and	
R	Information	comment document)	discuss with WG	Economic
		2. Southern Appalachians CBA & Central Appalachians CBA – In both CBAs "Hydrologic alteration partially due to forestry practices and		
		conversion from hardwood forests to non-native pine plantations" is listed as a threat. The references supporting these statements, like		
		the Quachita River CBA, are regional conservation plans which simply make statements of perceived threats without providing		
		supporting evidence to substantiate them. Clarification on what is meant by "hydrologic alteration" and its presumed causes would be		
		helpful.		
		The production of the producti		
		Forestry practices are subject to the federal Clean Water Act (CWA) which does not allow hydrologic alteration which would drain or		
		otherwise convert wetlands to non-wetlands. It is not apparent if this is the concern or if some other "hydrologic modification", directly		
		, , ,	Review additional	
		unsubstantiated threats from the NRA document so mitigation measures for real risks can be more effectively developed. Establishing	inforamtion sources and	
R		the practice of using good science will improve the integrity of the NRA and set a tone for the setting of mitigation measures.	discuss with WG	Economic
IX.	Intomiation	the practice of using good science will improve the integrity of the NKA and set a tone for the setting of initigation measures.	discuss with WO	LCOHOTTIC
		3. Ivory Billed Woodpecker –The last confirmed sighting of the ivory billed woodpecker occurred in the 1940s. Although two sightings		
		were reported in 1999 and 2004, these occurrences were never substantiated and were challenged by the scientific community (see	Consider filtering HCV 1	
		Sibley et al. 2006: http://science.sciencemag.org/content/311/5767/1555.1.full?ijkey=8Rlu7gVofPs4Y&keytype=ref&siteid=sci). FSC's	to include only species	
		procedure for identifying potential HCV 1 species may be appropriate (i.e. G1, LE designations), however there is absolutely no evidence	with documented	
		that current forestry operations pose a risk to the species. To effectively assess risk there must first be a population to evaluate.	occurrences in the last	
		Inclusion of this species as a HCV 1 undermines the effectiveness of the NRA by calling into question the credibility of the entire	two decades; discuss	F:-
R	Information	assessment and its methodology. The methodology must include how to best address the existence of outliers.	with WG	Economic
		4. Lack of subject area experts – FSC should consider the inclusion of subject area experts in the development and review of the draft		
		NRA. Based on the type of references provided, it is apparent that not enough emphasis was placed on evaluating the body of peer-		
		reviewed literature which exists prior to the determination of risk from forestry operations. Suggestion is to conduct a final literature		
		review of the selected HCVs and solicit involvement of experts who have published research and survey results in peer-reviewed		
		scientific journals. This would provide FSC confidence that the NRA represents real rather than perceived threats. If FSC hopes to		
		achieve conservation gain through their NRA and Controlled Wood program it is imperative that risks are accurately identified and	0	
_		mitigation measures are developed based on the best available science. Self-declared experts involved in the drafting of the NRA	Contact additional	
E	Information	should be considered with the appropriate weighting while the inclusion of credentialed experts prioritized and searched.	experts	Economic
		The National Council for Air and Stream Improvement (NCASI) is an excellent source of information. NCASI (http://www.ncasi.org) is a		
		non-profit organization that serves the forest products industry by facilitating scientific investigation of critical questions the industry		
		faces. The affect forest sourcing has on biodiversity and ecosystems is an on-going priority. Suggestion is to solicit NCASI review and	Review available	
I	Information	input in both the finalization of the NRA and the development of mitigation measures.	materials	Economic

		Scientific Experts, Scientific Sources and Technical Data When developing risk ratings FSC should ensure a breadth of perspectives and expertise is considered and avoid relying too heavily on a single source. The delineation of an expert should not be determined by affiliation with any organization or sector. Participation in an environmental organization does not convey any depth of expertise and the same is true for the forestry sector. A breadth of education,		
			Contact additional	
E			experts	Economic
	Sources of			
Х	Information	The NCASI comment memo includes 6 pages of references. Please see the memo for all sources.		Economic
E	Table on pg 1	CA Dept. of Fish & Game	Correct error	Economic