
From: Russell, Daniel </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D84F6C6D50E74230B05C507F1800FB6D-DANIEL_RUSS>
To: Livingston, Sue; Willy, Elizabeth
Sent: 3/6/2020 3:42:06 PM
Subject: Re: draft cumulative effects

we just have to be very careful in talking about uncertainties...kerry jumps all over us about that.

i know i kept some language in with regard to the unpredictability of wildfire severity due to varied terrain, etc.

i don't know if this will even get past her.

so just a thought...if you want to try adding something for climate, go ahead, but keep kerry in the back of your mind as you do so!

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From: Livingston, Sue <sue_livingston@fws.gov>
Sent: Friday, March 6, 2020 12:16 PM
To: Russell, Daniel <daniel_russell@fws.gov>; Willy, Elizabeth <elizabeth_willy@fws.gov>
Subject: RE: draft cumulative effects

Here's some added language for fuels reduction. Also a comment RE the determination for trapping. Maybe all is fine the way it is, but wanted to make sure you were aware.

Final thought. RE climate change, seems like we could also incorporate variable effects related to local variations that can't be predicted, as well as the greater uncertainty as to the degree of change in precipitation and whether it will get wetter or drier (at least in Oregon, but maybe not so much in CA). Thinking out loud and I haven't checked the climate change section to see if this is even mentioned, but could add to it if it seems valuable (think we talked about some of this in the species report).

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From: Russell, Daniel <daniel_russell@fws.gov>

Sent: Friday, March 6, 2020 11:44 AM

To: Livingston, Sue <sue_livingston@fws.gov>; Willy, Elizabeth <elizabeth_willy@fws.gov>

Subject: Re: draft cumulative effects

Thank you...would you be able to provide feedback on how to re-word that second one?

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From: Livingston, Sue <sue_livingston@fws.gov>

Sent: Friday, March 6, 2020 11:41 AM

To: Russell, Daniel <daniel_russell@fws.gov>; Willy, Elizabeth <elizabeth_willy@fws.gov>

Subject: RE: draft cumulative effects

RE Elizabeth's comments, the one RE "limited" effects of veg mgmt. seems accurate to me, given that there is only a 2 percent loss in habitat per decade. Don't know if there was a specific portion of that comment that appeared to minimize effects that I'm missing?

RE the fuels reduction activities as veg mgmt., yes, Elizabeth is correct—and maybe this is what she was getting at in the previous comment? I think this one gets couched by way of reducing fuels sufficient to reduce fire risk, while retaining structural features important to fishers and their prey. This retains elements of fisher habitat on the landscape while reducing the likelihood of large-scale habitat loss due to severe wildfires.

I'll review the rest of the CE document now.

Sue Livingston

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From: Russell, Daniel <daniel_russell@fws.gov>

Sent: Friday, March 6, 2020 8:04 AM

To: Livingston, Sue <sue_livingston@fws.gov>; Willy, Elizabeth <elizabeth_willy@fws.gov>

Subject: Fw: draft cumulative effects

Hi Sue,

When you get a chance (!), let me know what you think of two of Elizabeth's comments, WE5 and WE6.

Also, the attached doc with today's date is my attempt to incorporate Elizabeth's other comments, so if you can take a look at those and let me know if I addressed them adequately, I'd appreciate it.

Thanks,

Dan

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From: Willy, Elizabeth <elizabeth_willy@fws.gov>
Sent: Friday, March 6, 2020 7:01 AM
To: Russell, Daniel <daniel_russell@fws.gov>
Subject: Re: draft cumulative effects

Hi Dan,

Thank you for the work on this! I have a few thoughts (see attached) and apologize that I do not have more time to spend on this before taking care of other commitments today.

Elizabeth

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**From:** Russell, Daniel <[daniel\\_russell@fws.gov](mailto:daniel_russell@fws.gov)>  
**Sent:** Thursday, March 5, 2020 3:07 PM  
**To:** Crowell, Heidi <[heidi\\_crowell@fws.gov](mailto:heidi_crowell@fws.gov)>; Willy, Elizabeth <[elizabeth\\_willy@fws.gov](mailto:elizabeth_willy@fws.gov)>; Glenne, Gina <[gina\\_glenne@fws.gov](mailto:gina_glenne@fws.gov)>; Livingston, Sue <[sue\\_livingston@fws.gov](mailto:sue_livingston@fws.gov)>; Drake, Madeline K <[madeline\\_drake@fws.gov](mailto:madeline_drake@fws.gov)>; Eyes, Stephanie A <[stephanie\\_eyes@fws.gov](mailto:stephanie_eyes@fws.gov)>; Hull, Josh <[Josh\\_Hull@fws.gov](mailto:Josh_Hull@fws.gov)>; Picco, Angela <[Angela\\_Picco@fws.gov](mailto:Angela_Picco@fws.gov)>  
**Subject:** draft cumulative effects

In case you haven't read it yet, please see my chat to the group about this.  
Thanks,  
Dan

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