

Servheen, Chris

From: Servheen, Chris
Sent: Tuesday, September 18, 2012 3:46 PM
To: 'Mark Bruscino'; Frank T van Manen
Cc: Brian DeBolt; Kyle Bales; Luke Ellsbury; Haroldson, Mark A
Subject: RE: Fwd: bear mort for today (Tues the 18th)

The current criteria are every mortality east of Highway 120 does NOT count against the mortality limits. This is in the recovery plan demographic standards. This is from the Montana line to Thermopolis. So Mark is correct.

We will eventually change to the suitable habitat line inside this area but we haven't done that yet.

Chris

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator
USFWS
College of Forestry and Conservation
University Hall, Room 309
University of Montana Missoula, MT 59812
Phone 406-243-4903 Fax 406-329-3212
Email address: grizz@umontana.edu
<http://www.cfc.umt.edu/GrizzlyBearRecovery/>
<http://www.whitenosesyndrome.org/>

"If there are no dogs in heaven, then when I die I want to go where they went." - Will Rogers

From: Mark Bruscino [mailto:mark.bruscino@wyo.gov]
Sent: Tuesday, September 18, 2012 3:12 PM
To: Frank T van Manen
Cc: Brian DeBolt; Servheen, Chris; Kyle Bales; Luke Ellsbury; Haroldson, Mark A
Subject: Re: Fwd: bear mort for today (Tues the 18th)

Chris,

Is the current mortality threshold boundary the entire DPS or the Conservation Strategy Management Area?

Mark

On Tue, Sep 18, 2012 at 2:45 PM, Frank T van Manen <fvanmanen@usgs.gov> wrote:
Thanks Mark,

These 2 bears would indeed not count towards the threshold once there is a final rule regarding the revised mortality threshold and count line; although approved by the YES subcommittee, the FWS notice of action and public comment period have not been completed yet. Chris can provide more details on the time frame but it is our understanding that we currently cannot identify in our online mortality database which bears are, or are not, counted towards the threshold.

Once we have a final rule, I envision a system in which we still keep track of all mortalities and identify for each record whether it was inside the new count line or not.

Best,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

From: Mark Bruscano <mark.bruscano@wyo.gov>
To: "Haroldson, Mark A" <mharoldson@usgs.gov>, Frank Van Manen <fvanmanen@usgs.gov>, Chris Servheen <chris.servheen@cfc.umt.edu>
Cc: Brian DeBolt <brian.debolt@wyo.gov>, Luke Ellsbury <luke.ellsbury@wqf.state.wy.us>, Kyle Bales <kyle.bales@wqf.state.wy.us>
Date: 09/18/2012 02:18 PM
Subject: Fwd: bear mort for today (Tues the 18th)

Guys,

Both the Sleeper bear (today) and the Ralston bear (9/7) where captured east of Hwy 120 so they do not count towards the threshold--FYI

----- Forwarded message -----

From: **Brian DeBolt** <brian.debolt@wyo.gov>
Date: Tue, Sep 18, 2012 at 12:43 PM
Subject: bear mort for today (Tues the 18th)
To: Mark Bruscano <mark.bruscano@wyo.gov>, Kyle Bales <kyle.bales@wyo.gov>, Luke Ellsbury <luke.ellsbury@wyo.gov>

Guys,
The IGBST mort # for the Sleeper bear is 201232.
Thanks

--

Brian DeBolt

Wyoming Game and Fish Department
Large Carnivore Conflict Coordinator
260 Buena Vista
Lander, WY 82520
307-332-7723 x250
307-330-6977 (mobile)
e-mail address: Brian.DeBolt@wyo.gov

E-Mail to and from me, in connection with the transaction of public business, is subject to the Wyoming Public Records Act and may be disclosed to third parties.

--
NOTICE: my email address has changed to: mark.bruscino@wyo.gov

Please update your address book. Thanks!

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Mark Bruscano
Large Carnivore Management Section Supervisor
Wyoming Game and Fish Dept.
2820 State Hwy 120
Cody, WY 82414
(307) 899-8157
mark.bruscino@wyo.gov
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NOTICE: my email address has changed to: mark.bruscino@wyo.gov

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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Shoemaker, Rebecca

From: Servheen, Chris
Sent: Wednesday, September 19, 2012 10:36 AM
To: mark_haroldson@usgs.gov; rmace@mt.gov; Chuck Schwartz; Shoemaker, Rebecca
Subject: FW: next steps toward changing demographic criteria

The mail I sent you bounced so here it is again.

C

From: Servheen, Chris
Sent: Wednesday, September 19, 2012 10:25 AM
To: 'Frank T van Manen'; Kerry Gunther; Mark Haroldson; bryan.aber@idfg.idaho.gov; Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; Rich Harris; Pat Hnilicka; higgs@math.montana.edu; Rick Mace; dmeints@idfg.idaho.gov; Chris Servheen; Rebecca Shoemaker; daniel.thompson@wyo.gov; dtyers@fs.fed.us; Mark Haroldson; Chad A Dickinson; Craig L Whitman; Lisa Landenburger; jclark1@utk.edu; White,Gary; Dave Garshelis; Chuck Schwartz; spodruzny@fs.fed.gov; millerS@nwf.org
Cc: Losinski,Gregg; Mary_Gibson_Scott@nps.gov; 'pflowers@mt.gov'; Daryl Meints; David_Hallac@nps.gov
Subject: next steps toward changing demographic criteria

Folks,

Thanks to all of you the IGBST has completed this comprehensive report (and posted it on their website) on updated grizzly bear vital rates 2002-2011, new methods to estimate population size, and sustainable mortality limits for grizzlies in the Yellowstone ecosystem. There are a few more analyses to be completed on this project (as noted in the report) that should be finished by late 2012. Once those analyses are complete, we will be in a position in early 2013 to decide if we will propose to amend the Yellowstone chapter of the Recovery Plan and the demographic section of the Conservation Strategy with: 1) new methods to estimate population size; 2) a revised area where we count mortalities against mortality limits; and 3) revised sustainable mortality limits for different cohorts.

The amendment process would involve: 1) a Notice of Availability for comment in the Federal Register; 2) a public comment period; and 3) a concurrent peer review. The peer reviewers will be nominated by the IBA (Frank will have to recuse himself of course) and the Wildlife Society. The FWS will select 3 peer reviewers from those nominated by these professional societies.

Once the comment period closed and we responded to appropriate public and peer review comments, we will make the decision on changing the details of the Recovery Plan and the Conservation Strategy. In summary, at this time we are waiting for the completion of the final analyses to be completed in late 2012 to decide on moving forward with these possible changes.

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"If there are no dogs in heaven, then when I die I want to go where they went." - Will Rogers

From: Frank T van Manen [<mailto:fvanmanen@usgs.gov>]
Sent: Tuesday, September 11, 2012 1:34 PM
To: Kerry Gunther; Mark Haroldson; bryan.aber@idfg.idaho.gov; Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; Rich Harris; Pat Hnilicka; higgs@math.montana.edu; imgsgsche@math.montana.edu; Rick Mace; dmeints@idfg.idaho.gov; Chris Servheen; Rebecca Shoemaker; daniel.thompson@wyo.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov; Mark Haroldson; Karrie K West; Chad A Dickinson; Craig L Whitman; Chad E Hockenbary; Kyle E Orozco; Nicholas J Miles; Frank T van Manen; Lisa Landenburger; jclark1@utk.edu; White,Gary; Dave Garshelis; Chuck Schwartz; spodruzny@fs.fed.gov; millerS@nwf.org
Cc: Stephanie L Schmitz
Subject: IGBST Workshop Report

Dear IGBST members and workshop participants,

We just finished the report summarizing the findings of the 3 IGBST workshops held in 2011 and 2012. Thanks for all the comments and input we received, which have been incorporated and improved the report.

The report can be found at our website:
<http://www.nrmssc.usgs.gov/files/norock/IGBST/GYEGBMonMortWksRpt2012.pdf>

Please let me know if you have any questions.

Best regards,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

Shoemaker, Rebecca

From: Mark A Haroldson <mharoldson@usgs.gov>
Sent: Wednesday, September 19, 2012 1:55 PM
To: Shoemaker, Rebecca
Subject: Fw: 2012 GYE Mortalities
Attachments: GYE_Morts2012-09-18.jpg

FYI

Mark A. Haroldson
USGS Northern Rocky Mountain Science Center
Interagency Grizzly Bear Study Team
2327 University Way, Suite 2
Bozeman MT 59715
Phone 406-994-5042
Cell 406-570-7754
Fax 406-994-6416

----- Forwarded by Mark A Haroldson/BRD/USGS/DOI on 09/19/2012 13:54 -----

From: Mark A Haroldson/BRD/USGS/DOI
To: mark.bruscino@wyo.gov, Chris Servheen <chris.servheen@cfc.umt.edu>, KFrey@mt.gov, Frank T van Manen/BRD/USGS/DOI@USGS
Date: 09/19/2012 13:49
Subject: 2012 GYE Mortalities

FYI. The attached graphic displays the locations of GYE grizzly bear mortalities I have records for as of today. Two mortalities occurred outside the Conservation Management Area. Eight occurred outside the new smoothed count line. Specific information pertaining to each recorded mortality is available using the unique identifier on the Web mortality list.

Sincerely,

Mark

PS Craig went to pick up a collar yesterday near Odell Crk in the Centennials. Collar was found in the creek with a large rock on top of it, with a log on top of the rock, 20 meters from a camp site hunters had just vacated. Craig is back there today with a MT warden.

Mark A. Haroldson
USGS Northern Rocky Mountain Science Center
Interagency Grizzly Bear Study Team

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Fax 406-994-6416

Shoemaker, Rebecca

From: Mark A Haroldson <mharoldson@usgs.gov>
Sent: Wednesday, September 19, 2012 2:54 PM
To: mark.bruscino@; Servheen, Chris; KFrey@mt.gov; Frank T van Manen
Cc: Shoemaker, Rebecca
Subject: Fw: 2012 GYE Mortalities
Attachments: GYE_Morts2012-09-18.jpg

Kevin saw that 691's (201216) removal was missing from the plot. I had made an error when entering the UTM (put it Canada). With that error corrected 9 of the 2012 mortalities are outside the new count line. See the corrected graphic

Mark A. Haroldson
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Phone 406-994-5042
Cell 406-570-7754
Fax 406-994-6416

----- Forwarded by Mark A Haroldson/BRD/USGS/DOI on 09/19/2012 14:49 -----

From: Mark A Haroldson/BRD/USGS/DOI
To: mark.bruscino@wyo.gov, Chris Servheen <chris.servheen@cfc.umn.edu>, KFrey@mt.gov, Frank T van Manen/BRD/USGS/DOI@USGS
Date: 09/19/2012 13:49
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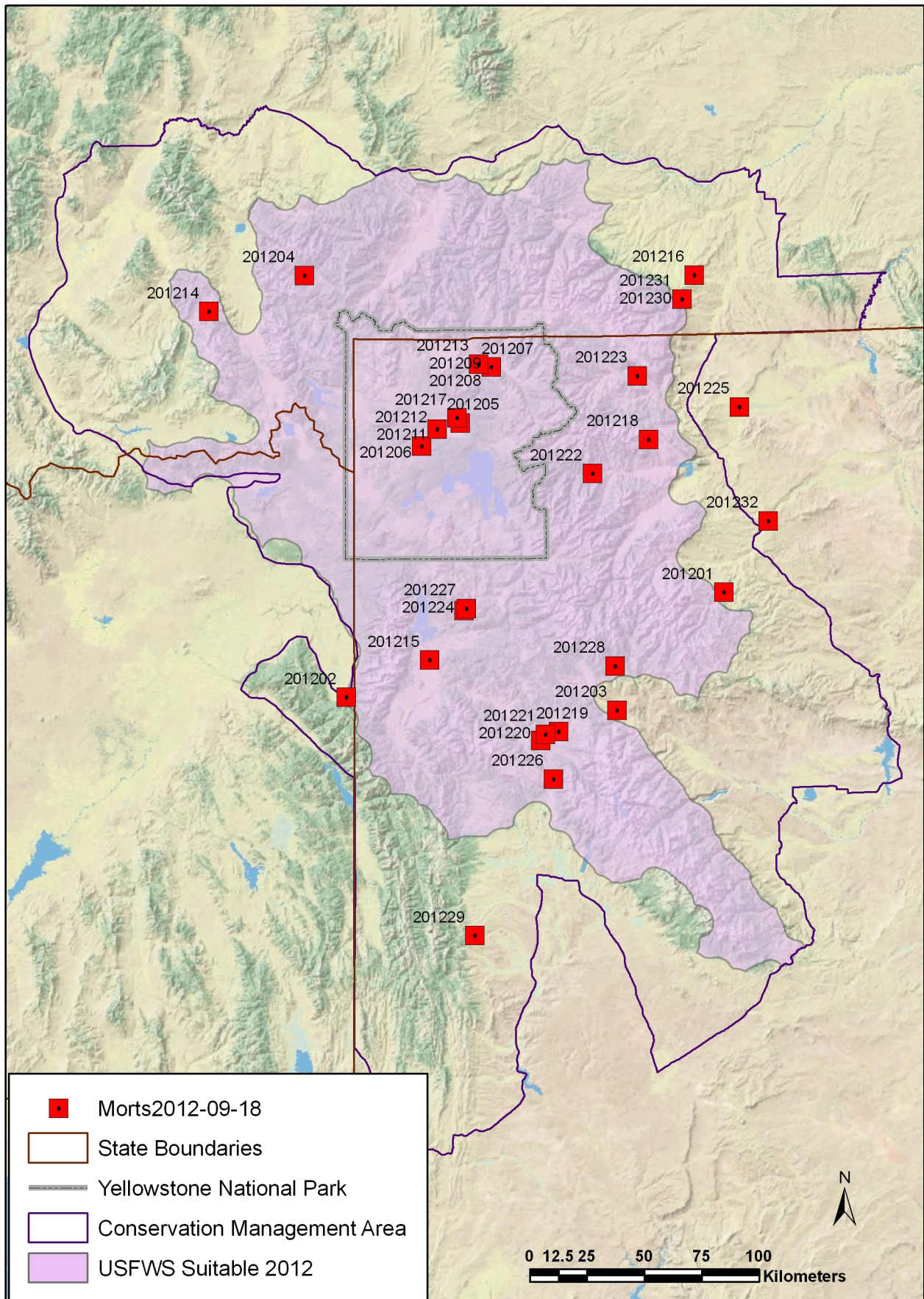
Sincerely,

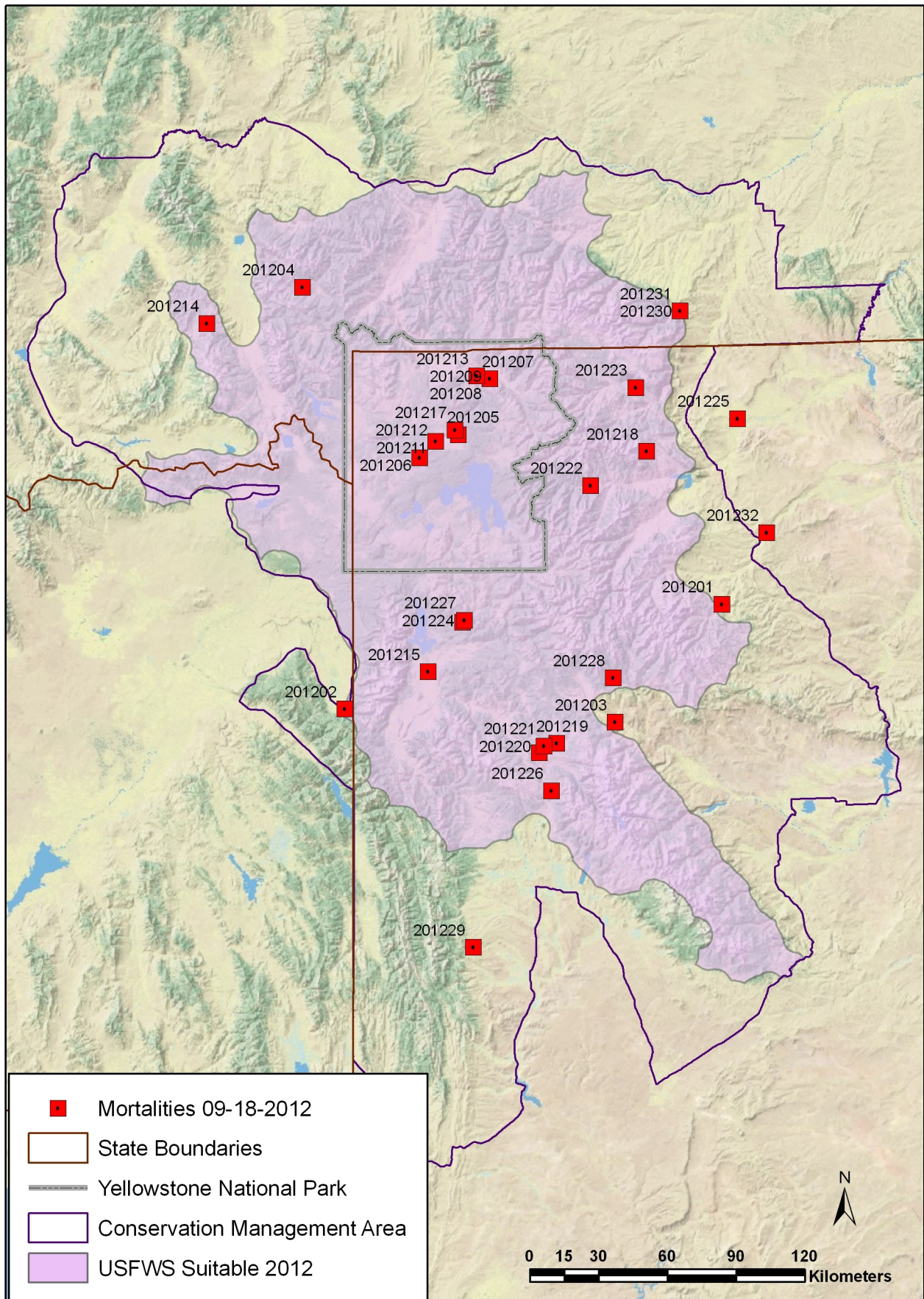
Mark

PS Craig went to pick up a collar yesterday near Odell Crk in the Centennials. Collar was found in the creek with a large rock on top of it, with a log on top of the rock, 20 meters from a camp site hunters had just vacated. Craig is back there today with a MT warden.

[attachment "GYE_Morts2012-09-18.jpg" deleted by Mark A Haroldson/BRD/USGS/DOI]

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2327 University Way, Suite 2
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Phone 406-994-5042
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Fax 406-994-6416





Servheen, Chris

From: Servheen, Chris
Sent: Wednesday, September 19, 2012 1:40 PM
To: 'Kerry_Gunther@nps.gov'
Subject: RE: next steps toward changing demographic criteria

Probably it will be discussed at the fall meeting.

C

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and
Conservation University Hall, Room 309 University of Montana Missoula, MT 59812
Phone 406-243-4903 Fax 406-329-3212 Email address: grizz@umontana.edu
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"If there are no dogs in heaven, then when I die I want to go where they went." - Will Rogers

-----Original Message-----

From: Kerry_Gunther@nps.gov [mailto:Kerry_Gunther@nps.gov]
Sent: Wednesday, September 19, 2012 10:49 AM
To: Servheen, Chris
Subject: Re: next steps toward changing demographic criteria

Will this be discussed at all at November's YES meeting? Or not until the Spring meeting? Just need to know when to brief the YNP Superintendent.

Kerry Gunther
Bear Management Office
Yellowstone National Park

307-344-2162

"Servheen, Chris"
<grizz@umontana.edu>

To

Frank T van Manen
09/19/2012 10:25 AM <fvanmanen@usgs.gov>, Kerry Gunther
<Kerry_Gunther@nps.gov>, Mark
Haroldson <mharoldson@usgs.gov>,
"bryan.aber@idfg.idaho.gov"
<bryan.aber@idfg.idaho.gov>,
"Dan.Bjornlie@wyo.gov"
<Dan.Bjornlie@wyo.gov>,
"mark.bruscino@wyo.gov"
<mark.bruscino@wyo.gov>, Steve Cain
<Steve_Cain@nps.gov>,
"KFrey@mt.gov" <KFrey@mt.gov>, Rich
Harris <rharris@montana.com>, Pat
Hnilicka <Pat_Hnilicka@fws.gov>,
"higgs@math.montana.edu"
<higgs@math.montana.edu>, Rick Mace
<rmace@mt.gov>,
"dmeints@idfg.idaho.gov"
<dmeints@idfg.idaho.gov>,
"Servheen, Chris"
<grizz@umontana.edu>, "Shoemaker,
Rebecca"
<rebecca.shoemaker@cfc.umt.edu>,
"daniel.thompson@wyo.gov"
<daniel.thompson@wyo.gov>,
"dtyers@fs.fed.us"
<dtyers@fs.fed.us>, "Mark
Haroldson" <mharoldson@usgs.gov>,
Chad A Dickinson
<chad_dickinson@usgs.gov>, Craig L
Whitman <cwhitman@usgs.gov>, Lisa
Landenburger
<lisa_landenburger@usgs.gov>,
"jclark1@utk.edu"
<jclark1@utk.edu>, "White, Gary"
<Gary.White@colostate.edu>, Dave
Garshelis
<dave.garshelis@state.mn.us>, Chuck
Schwartz <chuck_schwartz@usgs.gov>,
"spodruzny@fs.fed.gov"
<spodruzny@fs.fed.gov>,
"millerS@nwf.org" <millerS@nwf.org>
cc
"Losinski, Gregg"

<gregg.losinski@idfg.idaho.gov>,
"Mary_Gibson_Scott@nps.gov"
<Mary_Gibson_Scott@nps.gov>,
"pflowers@mt.gov"
<pflowers@mt.gov>, Daryl Meints
<daryl.meints@idfg.idaho.gov>,
"David_Hallac@nps.gov"
<David_Hallac@nps.gov>

Subject
next steps toward changing
demographic criteria

Folks,

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we are waiting for the completion of the final analyses to be completed in late 2012 to decide on moving forward with these possible changes.

Chris

Christopher Servheen, Ph.D.

Grizzly Bear Recovery Coordinator

Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation University Hall, Room 309 University of Montana Missoula, MT 59812

Phone 406-243-4903 Fax 406-329-3212 Email address: grizz@umontana.edu

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"If there are no dogs in heaven, then when I die I want to go where they went." - Will Rogers

From: Frank T van Manen [mailto:fvanmanen@usgs.gov]

Sent: Tuesday, September 11, 2012 1:34 PM

To: Kerry Gunther; Mark Haroldson; bryan.aber@idfg.idaho.gov;

Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; Rich Harris; Pat Hnilicka; higgs@math.montana.edu; imsgsche@math.montana.edu; Rick

Mace; dmeints@idfg.idaho.gov; Chris Servheen; Rebecca Shoemaker;

daniel.thompson@wyo.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov; Mark Haroldson;

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Orozco; Nicholas J Miles; Frank T van Manen; Lisa Landenburger; jclark1@utk.edu;

White, Gary; Dave Garshelis; Chuck Schwartz; spodruzny@fs.fed.gov;

millerS@nwf.org

Cc: Stephanie L Schmitz

Subject: IGBST Workshop Report

Dear IGBST members and workshop participants,

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The report can be found at our website:

<http://www.nrmssc.usgs.gov/files/norock/IGBST/GYEGBMonMortWksRpt2012.pdf>

Please let me know if you have any questions.

Best regards,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

Servheen, Chris

From: Servheen, Chris
Sent: Thursday, September 20, 2012 8:37 AM
To: Steve_Cain@nps.gov
Subject: Re: next steps toward changing demographic criteria

Steve,
Yes, Mary can make this an update topic and send this summary to YES.
Thanks,
Chris

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
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On 9/20/12 8:22 AM, "Steve_Cain@nps.gov" <Steve_Cain@nps.gov> wrote:

>
>Hi Chris,
>
>My thought is to make this an update topic at the fall YES meeting.
>Would you like Mary to send this to YES before then?
>
>Steve
>+++++
>Steve Cain
>Senior Wildlife Biologist
>Grand Teton National Park
>P.O. Box 170
>Moose, WY 83012
>(307)739-3485
>+++++
>"If there are no dogs in Heaven, then when I die I want to go where

>they went." Will Rogers

>----- Forwarded by Steve Cain/GRTE/NPS on 09/20/2012 08:21 AM -----

>

>

> Mary Gibson Scott

>

> <mary_gibson_scot

>

> t@nps.gov>

>To

> Steve Cain <Steve_Cain@nps.gov>

>

> 09/20/2012 04:47

>cc

> AM

>

>

>Subject

> Fwd: next steps toward changing

>

> demographic criteria

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>Should I share with yes? Or has Chris done that?

>

>Sent from my iPad

>

>Begin forwarded message:

>

> From: "Servheen, Chris" <grizz@umontana.edu>
> Date: September 19, 2012 10:25:29 AM MDT
> To: Frank T van Manen <fvanmanen@usgs.gov>, Kerry Gunther <
> Kerry_Gunther@nps.gov>, Mark Haroldson <mharoldson@usgs.gov>, "
> bryan.aber@idfg.idaho.gov" <bryan.aber@idfg.idaho.gov>, "
> Dan.Bjornlie@wyo.gov" <Dan.Bjornlie@wyo.gov>,
> "mark.bruscino@wyo.gov"
> <mark.bruscino@wyo.gov>, Steve Cain <Steve_Cain@nps.gov>, "
> KFrey@mt.gov" <KFrey@mt.gov>, Rich Harris <rharris@montana.com>, Pat
> Hnilicka <Pat_Hnilicka@fws.gov>, "higgs@math.montana.edu" <
> higgs@math.montana.edu>, Rick Mace <rmace@mt.gov>, "
> dmeints@idfg.idaho.gov" <dmeints@idfg.idaho.gov>, "Servheen, Chris"
><
> grizz@umontana.edu>, "Shoemaker, Rebecca" <
> rebecca.shoemaker@cfc.umn.edu>, "daniel.thompson@wyo.gov" <
> daniel.thompson@wyo.gov>, "dtyers@fs.fed.us" <dtyers@fs.fed.us>,
> "Mark Haroldson" <mharoldson@usgs.gov>, Chad A Dickinson <
> chad_dickinson@usgs.gov>, Craig L Whitman <cwhitman@usgs.gov>, Lisa
> Landenburger <lisa_landenburger@usgs.gov>, "jclark1@utk.edu" <
> jclark1@utk.edu>, "White, Gary" <Gary.White@colostate.edu>, Dave
> Garshelis <dave.garshelis@state.mn.us>, Chuck Schwartz <
> chuck_schwartz@usgs.gov>, "spodruzny@fs.fed.gov" <
> spodruzny@fs.fed.gov>, "millerS@nwf.org" <millerS@nwf.org>
> Cc: "Losinski, Gregg" <gregg.losinski@idfg.idaho.gov>, "
> Mary_Gibson_Scott@nps.gov" <Mary_Gibson_Scott@nps.gov>, "
> pflowers@mt.gov" <pflowers@mt.gov>, Daryl Meints <
> daryl.meints@idfg.idaho.gov>, "David_Hallac@nps.gov" <
> David_Hallac@nps.gov>
> Subject: next steps toward changing demographic criteria
>
> Folks,
> Thanks to all of you the IGBST has completed this comprehensive
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> vital
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> Christopher Servheen, Ph.D.

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> Region 6 White Nose Syndrome Coordinator

> USFWS

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> <http://www.whitenosesyndrome.org/>

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> Sent: Tuesday, September 11, 2012 1:34 PM

> To: Kerry Gunther; Mark Haroldson; bryan.aber@idfg.idaho.gov;

> Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain;

>KFrey@mt.gov

> ; Rich Harris; Pat Hnilicka; higgs@math.montana.edu;

> imsgsche@math.montana.edu; Rick Mace; dmeints@idfg.idaho.gov; Chris

> Servheen; Rebecca Shoemaker; daniel.thompson@wyo.gov;

> dtyers@fs.fed.us; fvanmanen@usgs.gov; Mark Haroldson; Karrie K West;
> Chad A Dickinson; Craig L Whitman; Chad E Hockenbary; Kyle E Orozco;
> Nicholas J Miles; Frank T van Manen; Lisa Landenburger;
> jclark1@utk.edu; White, Gary; Dave Garshelis; Chuck Schwartz;
> spodruzny@fs.fed.gov; millerS@nwf.org
> Cc: Stephanie L Schmitz
> Subject: IGBST Workshop Report
>

> Dear IGBST members and workshop participants,
>

> We just finished the report summarizing the findings of the 3 IGBST
> workshops held in 2011 and 2012. Thanks for all the comments and
> input we received, which have been incorporated and improved the
> report.
>

> The report can be found at our website:
>

> <http://www.nrmssc.usgs.gov/files/norock/IGBST/GYEGBMonMortWksRpt2012.pdf>
>

> Please let me know if you have any questions.
>

> Best regards,
>

> Frank
>

> *****
>

> Frank T. van Manen, Ph.D.
> Interagency Grizzly Bear Study Team
> Northern Rocky Mountain Science Center
> 2327 University Way, Suite 2
> Bozeman, MT 59715
> 406-994-5043
>

> *****
>

Chris Servheen

From: Steve_Cain@nps.gov
Sent: Friday, September 23, 2011 11:33 AM
To: Chris Servheen
Cc: Chuck Schwartz; Katharine_Wilmot@nps.gov; Mark Haroldson; Rich Harris
Subject: RE: presentation to YES

Chris,

This sounds good and we are in agreement. Mark, as for the study team meeting, keep in mind that a few of us, probably including you and Chris, as well as Dan Tyers, will have a one hour executive session on the GYCC agenda from 11-12 am Thursday morning. This is so that we can brief the federal managers on the YES agenda and allow them to ask questions during an executive session. This will not require presentations just brief 5 minute summaries by topic of what we intend to present. The 2 hour version of this worked very well last spring so we are continuing with an abbreviated session this fall. So, we should plan on ending the study team meeting by 11am Thursday. By early next week I would like estimates from you guys on how much time your agenda items will take.

Steve

+++++

Steve Cain
Senior Wildlife Biologist
Grand Teton National Park
P.O. Box 170
Moose, WY 83012
(307)739-3485

+++++

"If there are no dogs in Heaven, then when I die I want to go where they went." Will Rogers

Chris Servheen
<chris.servheen@fc.umt.edu>

To

"Steve_Cain@nps.gov"

09/23/2011 10:39 AM <Steve_Cain@nps.gov>

cc

Chuck Schwartz
<chuck_schwartz@usgs.gov>,
"Katharine_Wilmot@nps.gov"
<Katharine_Wilmot@nps.gov>, Mark
Haroldson <mharoldson@usgs.gov>,
Rich Harris <rharris@montana.com>

Subject

RE: presentation to YES

I am still unclear on the status Gary's "new" method and what Megan and Gary are doing if anything related to his method. Mark or Rich, can you clarify that please?

Is Megan willing to present and has anyone spoken to her? She will get about 15 minutes of so if she does present.

The format of the presentations will be as follows:

Chuck (if he is willing) will give an overview of why we are re-looking at the demographic criteria in the CS with the technical work group. I can do this but I would prefer we pull briefly Chuck out of retirement for this.

Mark will summarize the work of the group to date (I still need a sense of how and if Gary's method will work or be pursued further. Will this be part of Mark's or Megan's presentations?).

Megan will present (if she is willing) the results of her work.

Either Mark or I will summarize and tell YES we will get back to them with formal recommendations for changes in the demographic monitoring and management sections of the CS this winter and we will need them to approve these. This discussion will include the stepwise process outlined below.

I spoke to Mark Bruscano this morning and told him my preference is to give YES an overview of where we are going with the work group (the technical group who has met twice on these issues) and then to tell YES we will have a formal recommendation to them this winter about proposed changes in lines where we count bear deaths, ways to estimate population size, and perhaps averaging of mortalities over a given period of years. This formal recommendation will be sent to the YES members in the form of a recommendation by the work group along with the final report of the work group. I told Mark we needed to meet as a study team for a couple of hours prior to the YES meeting to review this. He was good with this approach. Are we all in agreement that this is where we are going? We need the final report from the work group done by March at the latest so that:

- 1) Any changes in demographic monitoring and management systems can be recommended to YES,
- 2) YES approves them,
- 3) We put them out for comment,
- 4) We finalize the recommendations based on comments,
- 5) YES agrees to implement the changes,
- 6) The changes go into effect by the time the bears come out in 2012.

If we are in agreement here, we need to send this message to all members of the work group so we are all on the same page.

Thanks,
Chris

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation
University Hall, Room 309 University of Montana Missoula, MT 59812 Phone 406-243-4903 Fax
406-329-3212 Email address: grizz@umontana.edu
<http://www.cfc.umt.edu/GrizzlyBearRecovery/>
<http://www.fws.gov/whitenosesyndrome/>

From: Steve_Cain@nps.gov [Steve_Cain@nps.gov]
Sent: Wednesday, September 21, 2011 9:18 AM
To: Chris Servheen
Cc: Chuck Schwartz; Katharine_Wilmot@nps.gov; Mark Haroldson; Rich Harris
Subject: RE: presentation to YES

Sounds good to me.

+++++

Steve Cain
Senior Wildlife Biologist
Grand Teton National Park
P.O. Box 170
Moose, WY 83012
(307)739-3485

+++++

"If there are no dogs in Heaven, then when I die I want to go where they went." Will Rogers

Chris Servheen
<chris.servheen@c
fc.umt.edu>

To

"Steve_Cain@nps.gov"

09/21/2011 09:08 AM <Steve_Cain@nps.gov>, Chuck
Schwartz <chuck_schwartz@usgs.gov>

cc

"Katharine_Wilmot@nps.gov"
<Katharine_Wilmot@nps.gov>, Mark
Haroldson <mharoldson@usgs.gov>,
Rich Harris <rharris@montana.com>

Subject

RE: presentation to YES

Ok. To summarize where we are at this point, I will give an overview of why we are re-looking at the demographic criteria, Mark will summarize the work of the group to date, Megan will present (if she is willing) the results of her work. I still need a sense of how and if Gary's method will work or be pursued further. Will this be part of Mark's or Megan's presentations? Regarding the line change, I am willing to let the YES know that we are leaning in that direction and why, but I would prefer to also tell them we will have a final recommendation to them by a certain date this winter on this and perhaps other recommendations. That will allow us to have one integrated recommendation rather than several over several months. By presenting a single integrated recommendation we will have the opportunity to detail how all the recommendations will work together in one package.

We need to have a study team meeting prior to the YES meeting to discuss all this.
Chris

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation
University Hall, Room 309 University of Montana Missoula, MT 59812 Phone 406-243-4903 Fax
406-329-3212 Email address: grizz@umontana.edu
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<http://www.fws.gov/whitenosesyndrome/>

From: Steve_Cain@nps.gov [Steve_Cain@nps.gov]
Sent: Wednesday, September 21, 2011 8:18 AM
To: Chuck Schwartz
Cc: Chris Servheen; Katharine_Wilmot@nps.gov; Mark Haroldson; Rich Harris
Subject: RE: presentation to YES

Its fine with me if Mark gives the presentation - I keep forgetting that Megan is not being paid for any of this. Mark, just let me know how you and Megan decide to handle it. She seemed very willing when I talked to her about it, but maybe you could talk to her about it.

+++++

Steve Cain
Senior Wildlife Biologist
Grand Teton National Park
P.O. Box 170
Moose, WY 83012
(307)739-3485

+++++

"If there are no dogs in Heaven, then when I die I want to go where they went." Will Rogers

chuck_schwartz@us
gs.gov

09/20/2011 06:34
PM

To
Steve_Cain@nps.gov
cc

Chris Servheen
<chris.servheen@cfc.umt.edu>,
Katharine_Wilmot@nps.gov, Mark
Haroldson <mharoldson@usgs.gov>,
Rich Harris <rharris@montana.com>
Subject
RE: presentation to YES

Steve et al., the only reason I'd be inclined to have Mark give Megan's summary is because she is not getting paid for her labors. She has fulfilled her contract and then some. If you feel strongly that she should give the summary, then I suggest you pay her for her work.

Chuck Schwartz, Ph.D.
Emeritus Research Scientist
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043 (PHONE)
406-994-6416 (FAX)

From Steve_Cain@nps.gov
:

To: Chris Servheen <chris.servheen@cfc.umt.edu>

Cc: Chuck Schwartz <chuck_schwartz@usgs.gov>, Mark Haroldson
<mharoldson@usgs.gov>, Rich Harris <rharris@montana.com>,
Katharine_Wilmot@nps.gov

Date 09/19/2011 12:10 PM
:

Subj RE: presentation to YES
ect:

Colleagues,

I was out of the office the latter half of last week, so just now catching up.

First, one thing that Chris missed on his list of demographic workshop discussion items is the potential smoothing of the mortality data each year, like basing it on a 3-year or 5-year running average, so that the occasional spikes are less alarming and put more into a meaningful biological context.

As for the presentation at YES, I think Mark needs to present a summary of demographic workshop deliberations to date, since our work has been extensive and the YES membership is very much interested in our progress (even if we have few or no recommendations at this point). I would like to include a brief and to the point discussion by Megan (with Mark), but geared to the managers and without the mathematical fog, simply because there has been great optimism and anticipation about the potential new method and the need exists to tell the YES membership why it failed and we are moving away from it. In addition, is there any reason why we cannot recommend moving the line to the suitable habitat delineation at this point?

As for who does what, it strikes me that one alternative would be to have Chris could introduce the topic of demographic measurement, facilitate Mark and Megan's presentations, and then follow up with where we intend to go from here (including investigations of Gary and Megan's work, survival analysis, mortality smoothing, and moving limits to a population stabilization strategy). Chris could also recommend the moving to the suitable habitat line now, unless there is a reason to hold this one for now.

What do you think?

Steve

+++++

Steve Cain

Senior Wildlife Biologist

Grand Teton National Park

P.O. Box 170

Moose, WY 83012

(307)739-3485

+++++

"If there are no dogs in Heaven, then when I die I want to go where they went." Will Rogers

Chris Servheen

<chris.servheen@c

fc.umt.edu>

To

Mark Haroldson

09/14/2011 04:07

<mharoldson@usgs.gov>

PM

cc

Chuck Schwartz

<chuck_schwartz@usgs.gov>, Rich

Harris <rharris@montana.com>,
"Steve_Cain@nps.gov"
<Steve_Cain@nps.gov>
Subject
RE: presentation to YES

So, what do you guys want to say and who will say it?

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation
University Hall, Room 309 University of Montana Missoula, MT 59812 Phone 406-243-4903 Fax
406-329-3212 Email address: grizz@umontana.edu
<http://www.cfc.umt.edu/GrizzlyBearRecovery/>
<http://www.fws.gov/whitenosesyndrome/>

From: Mark A Haroldson [mharoldson@usgs.gov]
Sent: Wednesday, September 14, 2011 3:46 PM
To: Chris Servheen
Cc: Chuck Schwartz; Rich Harris; Steve_Cain@nps.gov
Subject: RE: presentation to YES

Guys,

At this point I will be very hard pressed to get the survival analysis done be for the YES meeting. I'm shooting for this fall now. I am dealing with a lot more "stuff" these days.

Mark

Mark A. Haroldson
USGS Northern Rocky Mountain Science Center Interagency Grizzly Bear Study Team
2327 University Way, Suite 2
Bozeman MT 59715
Phone 406-994-5042
Cell 406-570-7754
Fax 406-994-6416

From: Chris Servheen <chris.servheen@cfc.umt.edu>

To: Chuck Schwartz <chuck_schwartz@usgs.gov>, Mark Haroldson
<mharoldson@usgs.gov>
Cc: "Steve_Cain@nps.gov" <Steve_Cain@nps.gov>, Rich Harris
<rharris@montana.com>
Date: 09/14/2011 15:25
Subject: RE: presentation to YES

I recall that we decided that this method had too many uncertainties and that we were going to explore the method that Gary proposed. I don't think Megan needs to tell this to YES unless she wants to but the risk of mathematical fog is high.

I also recall that the survival analysis was to be complete prior to the YES meeting so we had this in hand when the discussion happened with YES.
We really need this survival analysis completed.

As I remember it (and Rebecca is in agreement here), we have 3 overall alternatives:

- 1) We use Gary's new method to come up with a better population estimate that would better reflect the actual number of bears. This is the preferred approach, at least to me. Where are we with Gary's method?
- 2) Rezoning the area to the suitable line, which would only count mortalities in the places where bears live successfully (as opposed to private lands full of cow/calf pairs). This would result in a lower over all number of mortalities and less chance of exceeding the limits.
- 3) Revising the limits to stabilize the population. This is the 9% to 11% approach and would be based on the work in the monograph and the reassessing methods report. 11% makes λ 1.005 instead of 1.028 (9%).

Given this, I don't see we are in a position to make any recommendations at this meeting. We do need to give them a date when we expect to have a recommendation and this needs to be before the spring YES meeting. This is the report on the workshop results and a recommendation(s).

What do you guys want to say and who will say it?

c

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation
University Hall, Room 309 University of Montana Missoula, MT 59812 Phone 406-243-4903 Fax
406-329-3212 Email address: grizz@umontana.edu
<http://www.cfc.umd.edu/GrizzlyBearRecovery/>
<http://www.fws.gov/whitenosesyndrome/>

From: Charles C Schwartz [mailto:chuck_schwartz@usgs.gov]
Sent: Wednesday, September 07, 2011 1:20 PM
To: Mark Haroldson
Cc: Chris Servheen; 'Mark Haroldson'; Steve_Cain@nps.gov
Subject: Re: presentation to YES

I think what Mark lays out is fine and he should present to YES. I'd suggest that if Megan summarizes her work she keep it simple and short or she will loose the group. I hope to be in the audience for once.

Chuck Schwartz, Ph.D.
Leader, Interagency Grizzly Bear Study Team Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043 (PHONE)
406-994-6416 (FAX)

From:

Mark A Haroldson/BRD/USGS/DOI

To:

Chris Servheen <chris.servheen@cfc.umt.edu>

Cc:

Chuck Schwartz <chuck_schwartz@usgs.gov>, 'Mark Haroldson'
<mark_haroldson@usgs.gov>, "Steve_Cain@nps.gov" <Steve_Cain@nps.gov>

Date:

09/06/2011 04:05 PM

Subject:

Re: presentation to YES

I was thinking Megan would be the best person to providing a brief summary of her work. Then I would provide a summary of the alternatives the group discussed to provide some relief to the managers relative to mortalities.

Those begin changing the count line, changing the sustainable mortality rate (from 9% to 11% for females), and/or implementing both of these changes. My recollection is that the group's recommendation at this time was to change the count line to the FWS Suitable line. I could (with your help) than provide the committee with the steps needed to implement this change. I think we should also inform the committee of the next pieces of work that are under way by Gary and Megan that use observations of unmarked and collared female with COY from the observation flights. As I understand it, this work may go a long way towards providing support for the notion that there are many more bears in the GYE than the number estimated by the FCOY method we currently employ. Also, with all that is going on these days I will be hard pressed to get the survival analysis that includes the last 8 years of data done before the YES meeting. When I do get this part done, and Gary and Megan get their new method worked up, then I think we need to convene a 3rd (and hopefully final) workshop to discuss findings of these works. As far as timing for a final product, or what that product might be, I think we are a few steps form that, unless we want to close the book on the ADR method Megan came up with.

All this said, if for some reason Chuck wants to participate at the YES meeting and feels he needs to see what he started though he is more than welcome to step up to the plate.

Sincerely,

Mark

Mark A. Haroldson
USGS Northern Rocky Mountain Science Center Interagency Grizzly Bear Study Team
2327 University Way, Suite 2
Bozeman MT 59715
Phone 406-994-5042
Cell 406-570-7754
Fax 406-994-6416

From:

Chris Servheen <chris.servheen@cfc.umt.edu>

To:

'Mark Haroldson' <mark_haroldson@usgs.gov>

Cc:

Chuck Schwartz <chuck_schwartz@usgs.gov>, "Steve_Cain@nps.gov"
<Steve_Cain@nps.gov>

Date:

09/06/2011 14:11

Subject:

presentation to YES

Mark,

We need a formal report to YES on the progress of the group that has met twice to look at revising the total population estimate and the mortality management system. I realize you are going to present the IGBST report to YES. We need someone who is not an "agency" person to present the results of the workshops to date, some possible recommendations and how and when these can be implemented, and when to expect the final product of this work. I asked Chuck to do this workshop presentation to YES at the July workshop meeting. Since Chuck is now retired, I need to know if you were planning on doing this workshop report or should I ask Chuck to do it as an "older and wiser" retiree? This message would be best coming from the study team rather than an "agency" representative.

Thanks,

Chris

Christopher Servheen, Ph.D.

Grizzly Bear Recovery Coordinator

**Region 6 White Nose Syndrome Coordinator USFWS College of Forestry and Conservation
University Hall, Room 309 University of Montana Missoula, MT 59812 Phone 406-243-4903 Fax
406-329-3212 Email address: grizz@umontana.edu**

<http://www.cfc.umt.edu/GrizzlyBearRecovery/>

<http://www.fws.gov/whitenosesyndrome/>

[attachment "Summary of workshop proceedings to address issues of unduplicated counts and mortality limits in the GYE_v1.1.docx" deleted by Mark A Haroldson/BRD/USGS/DOI]

[attachment "winmail.dat" deleted by Mark A Haroldson/BRD/USGS/DOI]

Shoemaker, Rebecca

From: Servheen, Chris
Sent: Tuesday, September 25, 2012 3:35 PM
To: Frank T van Manen; Kerry Gunther; Mark A Haroldson; bryan.aber@idfg.idaho.gov; Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; rharris@montana.com; Pat Hnilicka; higgs@math.montana.edu; imsgsche@math.montana.edu; rmace@mt.gov; dmeints@idfg.idaho.gov; Servheen, Chris; Shoemaker, Rebecca; daniel.thompson@wyo.gov; dtyers@fs.fed.us
Subject: Re: IGBST meeting 7 Nov - 8 AM to noon

I would like to go over the process and protocol to decide on changes in the criteria and the process of the final completion of the workshop report.

It would also be good to get an update on the WBP synthesis document.
Chris

Christopher Servheen, Ph.D.
Grizzly Bear Recovery Coordinator
Region 6 White Nose Syndrome Coordinator
USFWS
College of Forestry and Conservation
University Hall, Room 309
University of Montana Missoula, MT 59812
Phone 406-243-4903 Fax 406-329-3212
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<http://www.WhiteNoseSyndrome.org/>

"If there are no dogs in heaven, then when I die I want to go where they went." - Will Rogers

From: 'Frank van Manen' <fvanmanen@usgs.gov>
Date: Tuesday, September 25, 2012 1:06 PM
To: Kerry Gunther <Kerry_Gunther@nps.gov>, Mark Haroldson <mharoldson@usgs.gov>, Bryan Aber <bryan.aber@idfg.idaho.gov>, "Dan.Bjornlie@wyo.gov" <Dan.Bjornlie@wyo.gov>, Mark Bruscano <mark.bruscino@wyo.gov>, Steve Cain <steve_cain@nps.gov>, Kevin Frey <kfrey@mt.gov>, Rich Harris <rharris@montana.com>, Pat Hnilicka <Pat_Hnilicka@fws.gov>, "higgs@math.montana.edu" <higgs@math.montana.edu>, Steve Cherry <imsgsche@math.montana.edu>, Rick Mace <rmace@mt.gov>, "dmeints@idfg.idaho.gov" <dmeints@idfg.idaho.gov>, Chris Servheen <grizz@umontana.edu>, Rebecca Shoemaker <rebecca.shoemaker@cfc.umt.edu>, "daniel.thompson@wyo.gov" <daniel.thompson@wyo.gov>, Dan Tyers <dtyers@fs.fed.us>, 'Frank van Manen' <fvanmanen@usgs.gov>
Subject: IGBST meeting 7 Nov - 8 AM to noon
Resent-From: Chris Servheen <chris.servheen@cfc.umt.edu>

Dear IGBST members,

It's time to set our next IGBST meeting, which will be held in conjunction with the YES meeting Nov 7 and 8. We will meet

8 AM to noon on Nov 7 (Wednesday), prior to the YES meeting. I still need to find out whether we have a meeting room at the hotel or if we need to meet in our USGS conference room but will let you know ASAP.

Please send me any agenda items (I have several already); I will send out a final agenda prior to our meeting.

All the best,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

Shoemaker, Rebecca

From: Frank T van Manen <fvanmanen@usgs.gov>
Sent: Tuesday, September 25, 2012 1:06 PM
To: Kerry Gunther; Mark A Haroldson; bryan.aber@idfg.idaho.gov; Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; rharris@montana.com; Pat Hnilicka; higgs@math.montana.edu; imsgsche@math.montana.edu; rmace@mt.gov; dmeints@idfg.idaho.gov; Servheen, Chris; Shoemaker, Rebecca; daniel.thompson@wyo.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov
Subject: IGBST meeting 7 Nov - 8 AM to noon

Dear IGBST members,

It's time to set our next IGBST meeting, which will be held in conjunction with the YES meeting Nov 7 and 8. We will meet **8 AM to noon on Nov 7** (Wednesday), prior to the YES meeting. I still need to find out whether we have a meeting room at the hotel or if we need to meet in our USGS conference room but will let you know ASAP.

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All the best,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

Shoemaker, Rebecca

From: Kerry_Gunther@nps.gov
Sent: Tuesday, September 25, 2012 1:23 PM
To: Frank_T_van_Manen/BRD/USGS/DOI.USGS.NPSX@nps.gov
Cc: bryan.aber@idfg.idaho.gov; Servheen, Chris; daniel.thompson@wyo.gov; Dan.Bjornlie@wyo.gov; dmeints@idfg.idaho.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov; higgs@math.montana.edu; imsgsche@math.montana.edu; KFrey@mt.gov; Mark_A_Haroldson/BRD/USGS/DOI.USGS@nps.gov; mark.bruscino@wyo.gov; Pat_Hnilicka/R6/FWS/DOI.FWS@nps.gov; Shoemaker, Rebecca; rharris@montana.com; rmace@mt.gov; Steve_Cain@nps.gov
Subject: Re: IGBST meeting 7 Nov - 8 AM to noon

Frank,

I would like to add a discussion on the GYE Conflict Report to the agenda. Discussion to include: current format, ideas for future to make it more efficient for all agencies, which agency takes the lead, data requests, FOIA's for data, etc.

Kerry Gunther
Bear Management Office
Yellowstone National Park

307-344-2162

Frank T van Manen/BRD/USGS/DOI@USGS

09/25/2012 01:04 PM

To Kerry Gunther/YELL/NPS@NPS, Mark A Haroldson/BRD/USGS/DOI@USGS, bryan.aber@idfg.idaho.gov, Dan.Bjornlie@wyo.gov, mark.bruscino@wyo.gov, Steve Cain/GRTE/NPS@NPS, KFrey@mt.gov, rharris@montana.com, Pat Hnilicka/R6/FWS/DOI@FWS, higgs@math.montana.edu, imgsche@math.montana.edu, rmace@mt.gov, dmeints@idfg.idaho.gov, chris.servheen@cfc.umt.edu, rebecca.shoemaker@cfc.umt.edu, daniel.thompson@wyo.gov, dtyers@fs.fed.us, fvanmanen@usgs.gov

cc

Subject IGBST meeting 7 Nov - 8 AM to noon

Dear IGBST members,

It's time to set our next IGBST meeting, which will be held in conjunction with the YES meeting Nov 7 and 8. We will meet **8 AM to noon on Nov 7** (Wednesday), prior to the YES meeting. I still need to find out whether we have a meeting room at the hotel or if we need to meet in our USGS conference room but will let you know ASAP.

Please send me any agenda items (I have several already); I will send out a final agenda prior to our meeting.

All the best,

Frank

Frank T. van Manen, Ph.D.
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center

2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043

The Honorable Matthew Mead
Governor of Wyoming
State Capitol
Cheyenne, Wyoming 82002

Dear Governor Mead:

Thank you for your letter of May 24, 2012, concerning the delisting of the Yellowstone grizzly bear population. The population was delisted in 2007, and then returned to listed status after a Federal District Court ruling in 2009 that overturned this delisting.

The U.S. Fish and Wildlife Service (Service) appealed this Federal District Court ruling to the Ninth Circuit, and in the fall of 2011 the Ninth Circuit reversed part of the District court ruling but sustained another part. As you may be aware, there were four areas where the Service was challenged: 1) whether our evaluation of "significant portion of its range" was appropriate and in accordance with law, 2) whether our evaluation of the genetics of grizzly bear population was correct, 3) whether we evaluated the conservation strategy appropriately and in accordance with law, and 4) whether we appropriately evaluated the implication of whitebark pine on the status of the grizzly bear.

The Service prevailed on issues 1 and 2 at the District Court level. The Service subsequently prevailed on issue 3 on appeal to the Ninth Circuit. I want to emphasize the importance of prevailing on these first three issues, particularly issue number 3, and that the Service is in a far better position now to ultimately defend a delisting of the Yellowstone grizzly bear population. However, the issue that the Ninth Circuit sustained and remanded was the ruling that the Service had failed to establish that the decline in whitebark pine in the Yellowstone ecosystem was not a threat to the grizzly bear. The Service concurs with your desire to bring resolution to the grizzly bear issue quickly.

Immediately upon the ruling of the Ninth Circuit, the Service convened all the agency partners in the Interagency Grizzly Bear Study Team in the Yellowstone ecosystem, including members of the Wyoming Game and Fish Department, to discuss as a group how to proceed. We also brought in numerous outside experts in bear biology and statistics to give careful consideration on how we could provide a better explanation to the courts on the issue of why declines in whitebark pine do not pose a threat to grizzly bears. All agencies agreed that the Yellowstone grizzly population was recovered and that declines in whitebark pine do not threaten the future of this grizzly population.

The Service and our State and Federal partners were disappointed at the ruling and discussed the best way to improve the probability of success of a new proposed delisting if such a proposal was again challenged in court. After several meetings and input from all partner agencies, we arrived at an approach that we believe has the highest probability of success for any decision the

should it be said this way, it makes it sound predecisional. How about to give careful consideration to re-examination of whether the declines in whitebark pines poses a threat to grizzly bears sufficient to remain on the list of endangered and threatened species.

FILE SURNAME	
SOZ - George	(6/25)
JESUP	6/26/12
B. Roth	SOZ/DPW 6/27/12
Williams	SOZ 7/2/12

Acting Asst SOZ

intergovernmental
grizzly bear

U.S. Court

appellate

far group discussion

best

participants? entitled?

decision

developed

is the best

^{will}
Service makes, if challenged. This approach is to build a strong scientific synthesis of all the information we have on the relationship between whitebark pine and grizzly bears in the Yellowstone ecosystem and to use this synthesis as a foundation for a new proposed decision document. A timeline has been established to complete this synthesis within 18 months and then to develop and publish the new proposed rule by early 2014. All agencies are now working cooperatively on this synthesis document, which is being lead by U.S. Geological Survey.

In summary, we agree that the Yellowstone grizzly bear population is recovered and believe our earlier decision was sound. However, the Ninth Circuit Court decision requires that we revisit the implication of white bark pine to the grizzly bear. We are working with our agency partners through a carefully designed scientific process ~~that~~ ^{to do that.} maximizes the probability of success if again challenged, by building the strongest possible foundation of science to support the Service's decision-making.

We recognize that the State of Wyoming is a key partner in the recovery and management of the Yellowstone grizzly population. We also recognize that the State of Wyoming has invested significant amounts of expertise and funds in this recovery effort. We deeply appreciate the contributions of Wyoming to the recovery of the Yellowstone grizzly population and the State's commitment to the future welfare of the Yellowstone grizzlies. We look forward to a scientifically sound and legally defensible delisting as a validation of our successful State/Federal partnership and as one of the greatest success stories of the Endangered Species Act.

decision which will under

Sincerely,

based on the best
available science.

Ken Salazar

I think
Gov. Mead's
letter was
essentially asking
to expedite
this study.
Can we add a
sentence
explaining why
it will take
18 months...?

The Honorable Matthew Mead
Governor of Wyoming
State Capitol
Cheyenne, Wyoming 82002

Dear Governor Mead:

Thank you for your letter of May 24, 2012, concerning the delisting of the Yellowstone grizzly bear population. The population was delisted in 2007, but was returned to listed status after a United States District Court ruling in 2009 overturning the delisting.

The U.S. Fish and Wildlife Service (Service) appealed this ruling to the U.S. Court of Appeals for the Ninth Circuit, and in the fall of 2011 the Ninth Circuit reversed part of the District court ruling but sustained another part. As you may be aware, there were four areas where the Service was challenged whether: 1) our evaluation of “significant portion of its range” was appropriate and in accordance with law, 2) our evaluation of the genetics of the grizzly bear population was correct, 3) we evaluated the conservation strategy appropriately and in accordance with law, and 4) we appropriately evaluated the implication of whitebark pine on the status of the grizzly bear.

The Service prevailed on issues 1 and 2 at the district court level. The Service subsequently prevailed on issue 3 on appeal. I want to emphasize the importance of prevailing on these first three issues, particularly issue number 3, and that the Service is in a far better position now to ultimately defend a future delisting of the Yellowstone grizzly bear population. However, the issue that the Ninth Circuit sustained and remanded was the ruling that the Service had failed to establish that the decline in whitebark pine in the Yellowstone ecosystem was not a continuing threat to the grizzly bear.

The Service concurs with your desire to bring resolution to the grizzly bear issue quickly. Immediately upon the appellate ruling, the Service convened all the agency partners in the Interagency Grizzly Bear Study Team in the Yellowstone ecosystem, including members of the Wyoming Game and Fish Department, for group discussions how to best proceed. We also brought in numerous outside experts in bear biology and statistics to give careful consideration to reexamination of whether the declines in whitebark pine poses a threat to grizzly bears sufficient to remain on the lists of endangered or threatened species. All participants agreed that the Yellowstone grizzly population was recovered and that declines in whitebark pine do not threaten the future of this grizzly population.

The Service and our State and Federal partners were disappointed at the ruling and discussed the best way to improve the probability of success if a new decision was again challenged in court. After several meetings and input from all partner agencies, we developed the best approach. This approach will build a strong scientific synthesis of all the information we have on the relationship between whitebark pine and grizzly bears in the Yellowstone ecosystem and to use this synthesis as a foundation for a new proposed decision. A timeline has been established to

complete this synthesis within 18 months and then to develop and publish a new proposed rule by early 2014. All agencies are now working cooperatively on this synthesis document, which is being lead by U.S. Geological Survey.

In summary, we agree that the Yellowstone grizzly bear population is recovered and believe our earlier decision was based on the best available science. However, the court decisions require that we revisit the implication of white bark pine to the grizzly bear. We are working with our agency partners through a carefully designed scientific process that maximizes the probability of success if again challenged, by building the strongest possible foundation of science to support the Service's decision-making.

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Sincerely,

Ken Salazar

Chris Servheen/R6/FWS/DOI
10/09/2012 09:49 AM

To Rebecca Shoemaker/R6/FWS/DOI@FWS
cc
bcc
Subject Fw: DTS Assignment--Requests the Secretary work with the State of Wyoming to expedite the review to delist the grizzly bear under ESA.

----- Forwarded by Chris Servheen/R6/FWS/DOI on 10/09/2012 09:49 AM -----



Michael Thabault/R6/FWS/DOI
07/16/2012 10:42 AM

To Chris Servheen/R6/FWS/DOI@FWS
cc
Subject Fw: DTS Assignment--Requests the Secretary work with the State of Wyoming to expedite the review to delist the grizzly bear under ESA.

Left off the attachments. Sorry.

Michael Thabault
Assistant Regional Director - Ecological Services
Mountain Prairie Region
303-236-4252



----- Forwarded by Michael Thabault/R6/FWS/DOI on 07/16/2012 10:41 AM -----



Don Morgan/ARL/R9/FWS/DOI
07/16/2012 05:03 AM

To Michael Thabault/R6/FWS/DOI@FWS, Bridget Fahey/R6/FWS/DOI@FWS
cc Rick Sayers/ARL/R9/FWS/DOI
Subject Fw: DTS Assignment--Requests the Secretary work with the State of Wyoming to expedite the review to delist the grizzly bear under ESA.

Mike and Bridget,

I received the following DTS assignment, as well as a hard copy of this letter for revision. Attached you will find Gary's edits (mark-up copy) and my attempt to incorporate those edits. I have been asked to revise the document and coordinate with you on the response.

I wasn't sure if participants or entities was the correct term in the fourth paragraph? I incorporated Gary's suggestion with regard to potentially predecisional language in this paragraph, let me know what you think.

On Page two there is the comment in the second paragraph "to do that." It wasn't clear to me if he intended to conclude the paragraph that way or not?

Will you please assist me with Gary's question regarding the 18 month time frame on page two?

Thank you,

Don



Mead Response - Mark-up Copy.pdf



051693 Mead Revised 7-13.docx

Don R. Morgan
Chief, Branch of Recovery and State Grants
Endangered Species Program
4401 N. Fairfax Dr., Room 434B
Arlington, VA 22203
Phone (703) 358-2444
Fax (703) 358-1735

----- Forwarded by Don Morgan/ARL/R9/FWS/DOI on 07/16/2012 06:31 AM -----



DTS@fws.gov

07/13/2012 09:51 AM

To don_morgan@fws.gov, lois_wellman@fws.gov,
marjorie_nelson@fws.gov, rick_sayers@fws.gov
cc

Subject DTS Assignment--Requests the Secretary work with the
State of Wyoming to expedite the review to delist the grizzly
bear under ESA.

Hello and welcome to the DTS automated email alert!

Your office (AES-DCHR) has a task assigned.

Please log on to the Data Tracking System at the following URL Address:
<https://dts.fws.gov> and review Document Control Number (DCN)** 051693.

To move the document to the next office in the routing process, enter the task completed date in your office's routing in the routing screen and save the record. Then, add the next office, task assigned date, and task, and save the record.

Document Subject: Requests the Secretary work with the State of Wyoming to expedite the review to delist the grizzly bear under ESA.

Action Required: 6-Revise

Assigned By Office: AES User: Robert Barba

Thank you.

Shoemaker, Rebecca

From: Servheen, Chris
Sent: Tuesday, October 09, 2012 9:39 AM
To: Shoemaker, Rebecca
Subject: Emailing: CS edits 051693 Mead Revised 7-13.docx
Attachments: CS edits 051693 Mead Revised 7-13.docx

Your message is ready to be sent with the following file or link attachments:

CS edits 051693 Mead Revised 7-13.docx

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

The Honorable Matthew Mead
Governor of Wyoming
State Capitol
Cheyenne, Wyoming 82002

Dear Governor Mead:

Thank you for your letter of May 24, 2012, concerning the delisting of the Yellowstone grizzly bear population. The population was delisted in 2007, but was returned to listed status after a United States District Court ruling in 2009 overturning the delisting.

The U.S. Fish and Wildlife Service (Service) appealed this ruling to the U.S. Court of Appeals for the Ninth Circuit, and in the fall of 2011 the Ninth Circuit reversed part of the District court ruling but sustained another part. As you may be aware, there were four areas where the Service was challenged whether: 1) our evaluation of “significant portion of its range” was appropriate and in accordance with law, 2) our evaluation of the genetics of the grizzly bear population was correct, 3) we evaluated the conservation strategy appropriately and in accordance with law, and 4) we appropriately evaluated the implication of whitebark pine on the status of the grizzly bear.

The Service prevailed on issues 1 and 2 at the district court level. The Service subsequently prevailed on issue 3 on appeal. I want to emphasize the importance of prevailing on these first three issues, particularly issue number 3, and that the Service is in a far better position now to ultimately defend a future delisting of the Yellowstone grizzly bear population. However, the issue that the Ninth Circuit sustained and remanded was the ruling that the Service had failed to establish that the decline in whitebark pine in the Yellowstone ecosystem was not a continuing threat to the grizzly bear.

The Service concurs with your desire to bring resolution to the grizzly bear issue quickly. Immediately upon the appellate ruling, the Service convened all the agency partners in the Interagency Grizzly Bear Study Team in the Yellowstone ecosystem, including members of the Wyoming Game and Fish Department, for group discussions how to best proceed. We also brought in numerous outside experts in bear biology and statistics to give careful consideration to reexamination of whether the declines in whitebark pine poses a threat to grizzly bears sufficient to remain on the lists of endangered or threatened species. All participants agreed that the Yellowstone grizzly population was recovered and that declines in whitebark pine do not threaten the future of this grizzly population.

The Service and our State and Federal partners were disappointed at the ruling and discussed the best way to improve the probability of success if a new decision was again challenged in court. After several meetings and input from all partner agencies, we developed the best approach. This approach will build a strong scientific synthesis of all the information we have on the relationship between whitebark pine and grizzly bears in the Yellowstone ecosystem and to use this synthesis as a foundation for a new proposed decision. A timeline has been established to

complete this synthesis within 18 months and then to develop and publish a new proposed rule by early 2014. The synthesis involves a significant amount of re-analysis of the existing data on the relationship between white bark pine changes and grizzly bear vital rates, as well as adding the data sets from the 2002 -2013 time period to the data to better evaluate these factors. This re-analysis will strengthen the scientific approach we will use to again propose delisting. All agencies are now working cooperatively on this synthesis document, which is being lead by U.S. Geological Survey.

In summary, we agree that the Yellowstone grizzly bear population is recovered and believe our earlier decision was based on the best available science. However, the court decisions require that we revisit the implication of white bark pine to the grizzly bear. We are working with our agency partners through a carefully designed scientific process that maximizes the probability of success if again challenged, by building the strongest possible foundation of science to support the Service's decision-making.

We recognize that the State of Wyoming is a key partner in the recovery and management of the Yellowstone grizzly population. We also recognize that the State of Wyoming has invested significant amounts of expertise and funds in this recovery effort. We deeply appreciate the contributions of Wyoming to the recovery of the Yellowstone grizzly population and the State's commitment to their future welfare. We look forward to a scientifically sound decision which will validate our State/Federal partnership and as one of the greatest success stories under the Endangered Species Act.

Sincerely,

Ken Salazar

Shoemaker, Rebecca

From: Servheen, Chris
Sent: Tuesday, October 09, 2012 9:40 AM
To: Shoemaker, Rebecca
Subject: Emailing: Mead_response_Thabault_edits.docx
Attachments: Mead_response_Thabault_edits.docx

Your message is ready to be sent with the following file or link attachments:

Mead_response_Thabault_edits.docx

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

DRAFT

Governor Matthew Mead
State Capitol
Cheyenne, WY 82002

Dear Governor Mead,

Thank you for your letter of May 24 concerning the delisting of the Yellowstone grizzly bear population. The population is currently relisted after having been delisted in 2007 and then returned to listed status after a Federal District Court ruling in 2009 that overturned this delisting. The Fish and Wildlife Service (Service) appealed this federal District Court ruling to the Ninth Circuit and in the fall of 2011 the Ninth Circuit reversed part of the District court ruling and sustained part of this ruling. As you may be aware there were four areas where the Service was challenged; 1) was our evaluation of significant portion of the range appropriate and in accordance with law, 2) was our evaluation of the genetics of grizzly bear population correct, 3) did we evaluate the conservation strategy appropriately and in accordance with law, and 4) did we appropriately evaluate the implication of whitebark pine on the status of the grizzly bear. The Service prevailed on issues 1 and 2 identified about at the District Court level. The Service subsequently prevailed on issue 3 at the Ninth Circuit Court level. I want to emphasize the importance of prevailing on these first three issues, particularly issue number 3, and that the Service is in a far better position now than if it had not prevailed. However, the issue that the Ninth Circuit sustained and remanded was the ruling that the Service had failed to convince the court that the decline in whitebark pine in the Yellowstone ecosystem was not a threat to the grizzly bear. The Service concurs with your desire to bring resolution to the grizzly bear issue quickly.

Immediately upon the ruling of the Ninth Circuit, the Service convened all the agency partners in the Interagency Grizzly Bear Study Team in the Yellowstone ecosystem, including members of the Wyoming Game and Fish Department, to decide as a group how to proceed. We also brought in numerous outside experts in bear biology and statistics to give careful consideration on how we could provide a better explanation to the courts on the issue of why declines in whitebark do not pose a threat to grizzly bears. All agencies agreed that the Yellowstone grizzly population was recovered and that declines in whitebark do not threaten the future of this grizzly population. The task, however, is to a scientifically defensible **and** legally supportable decision document.

The Service and our State and Federal partners were disappointed at the ruling and universally thought we could develop a new proposed rule to delist the species. We discussed the best way to improve the probability of success of a new proposed delisting if such a proposal was again challenged in court. After several meetings and input from all partner agencies we arrived at an approach that we believe has the highest probability of success for any decision the Service makes, if challenged.

This approach is to build a strong scientific synthesis of all the information we have on the relationship between whitebark pine and grizzly bears in the Yellowstone ecosystem and to use this synthesis as a foundation for a new proposed decision document. A timeline has been established to complete this synthesis within 18 months and then to develop and publish the new proposed rule by early 2014. All agencies are now working cooperatively on this synthesis document, which is being lead by USGS.

In summary, we agree that the Yellowstone grizzly bear population is recovered and believe our earlier decision was sound. However, we are working with our agency partners through a carefully designed scientific process that maximizes the probability of success if challenged. We believe that, a prudent approach is to move forward carefully after building a strong foundation of science to support the Services decision-making.

We recognize that the state of Wyoming is a key partner in the recovery and management of the Yellowstone grizzly population. We also recognize that the state of Wyoming has invested significant amounts of expertise and funds in this recovery effort. We deeply appreciate the contributions of Wyoming to the recovery of the Yellowstone grizzly population and the state's commitment to the future welfare of the Yellowstone grizzlies. We look forward to scientifically sound and legally defensible decision as a validation of our successful State/Federal partnership and as one of the greatest success stories of the Endangered Species Act.

Sincerely,

Shoemaker, Rebecca

From: Frank T van Manen <fvanmanen@usgs.gov>
Sent: Wednesday, October 31, 2012 12:52 PM
To: Kerry Gunther; Mark A Haroldson; Bryan Aber; Dan.Bjornlie@wyo.gov; mark.bruscino@wyo.gov; Steve Cain; KFrey@mt.gov; rharris@montana.com; Pat Hnilicka; higgs@math.montana.edu; imsgsche@math.montana.edu; rmace@mt.gov; dmeints@idfg.idaho.gov; Servheen, Chris; Shoemaker, Rebecca; daniel.thompson@wyo.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov
Subject: IGBST meeting 7 Nov 2012 (8 AM to noon)
Attachments: Fall 2012 IGBST meeting.docx

Hi Everyone,

Attached is the agenda for our IGBST meeting Wednesday, **7 Nov 2012**. We will be meeting in the **Goldenrod Board Room** at the Hilton Garden Inn (thanks to Steve Cain and GRTE for arranging the room).

Please let me know if you have any questions.

See you next week!

Frank

Frank T. van Manen
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043
<http://www.nrmssc.usgs.gov/research/igbst-home.htm>

Shoemaker, Rebecca

From: Frank T van Manen <fvanmanen@usgs.gov>
Sent: Wednesday, October 31, 2012 1:17 PM
To: Kerry Gunther
Cc: Bryan Aber; Servheen, Chris; daniel.thompson@wyo.gov; Dan.Bjornlie@wyo.gov; dmeints@idfg.idaho.gov; dtyers@fs.fed.us; higgs@math.montana.edu; imsgsche@math.montana.edu; KFrey@mt.gov; Mark A Haroldson; mark.bruscino@wyo.gov; Pat Hnilicka; Shoemaker, Rebecca; rharris@montana.com; rmace@mt.gov; Steve Cain
Subject: Re: IGBST meeting 7 Nov 2012 (8 AM to noon)

Kerry,

This would be an appropriate time to review so I will add that topic to the agenda.

Thanks,

Frank

Frank T. van Manen
Team Leader
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043
<http://www.nrmssc.usgs.gov/research/igbst-home.htm>

From: Kerry Gunther/YELL/NPS@NPS
To: Frank T van Manen/BRD/USGS/DOI@USGS@NPSX
Cc: Bryan Aber/R4/USDAFS@FSNOTES, chris.servheen@cfc.umt.edu, daniel.thompson@wyo.gov, Dan.Bjornlie@wyo.gov, dmeints@idfg.idaho.gov, dtyers@fs.fed.us, fvanmanen@usgs.gov, higgs@math.montana.edu, imsgsche@math.montana.edu, KFrey@mt.gov, Mark A Haroldson/BRD/USGS/DOI@USGS, mark.bruscino@wyo.gov, Pat Hnilicka/R6/FWS/DOI@FWS, rebecca.shoemaker@cfc.umt.edu, rharris@montana.com, rmace@mt.gov, Steve Cain/GRTE/NPS@NPS
Date: 10/31/2012 01:09 PM
Subject: Re: IGBST meeting 7 Nov 2012 (8 AM to noon)

Frank,

Do you think there would be time for one more agenda item? If so, the team could go over the list of species consumed by bears that I have compiled and make a call on each species if we think it is an actual food, or just something that was consumed incidentally while grizzly bears were foraging on other foods.

Kerry Gunther
Bear Management Office
Yellowstone National Park

307-344-2162

Frank T van Manen/BRD/USGS/DOI@USGS

10/31/2012 12:50 PM

To Kerry Gunther/YELL/NPS@NPS, Mark A Haroldson/BRD/USGS/DOI@USGS, Bryan Aber/R4/USDAFS@FSNOTES, Dan.Bjornlie@wyo.gov, mark.bruscino@wyo.gov, Steve Cain/GRTE/NPS@NPS, KFrey@mt.gov, rharris@montana.com, Pat Hnilicka/R6/FWS/DOI@FWS, higgs@math.montana.edu, imsgsche@math.montana.edu, rmace@mt.gov, dmeints@idfg.idaho.gov, chris.servheen@cfc.umt.edu, rebecca.shoemaker@cfc.umt.edu, daniel.thompson@wyo.gov, dtyers@fs.fed.us, fvmananen@usgs.gov

cc

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See you next week!

Frank

[attachment "Fall 2012 IGBST meeting.docx" deleted by Frank T van Manen/BRD/USGS/DOI]

Frank T. van Manen
Interagency Grizzly Bear Study Team
Northern Rocky Mountain Science Center
2327 University Way, Suite 2
Bozeman, MT 59715
406-994-5043
<http://www.nrmssc.usgs.gov/research/igbst-home.htm>

IGBST Meeting
7 Nov 2012 8 AM to noon
Goldenrod Board Room, Hilton Garden Inn, Bozeman, MT

AGENDA

1. Introductions
2. Update on executive session with YES committee (van Manen)
3. Update on WBP synthesis document (van Manen)
4. Process and protocol for amendment if GYE chapter of Recovery Plan with regard to a) new methods to estimate population size, b) revised limits for sustainable mortality, and c) revised area within which mortalities will be counted towards mortality limit (Servheen)
5. Annual report - conflict section (Gunther)
Discussion regarding current format, agency lead, efficiency, data and FOIA requests
6. Data and info sharing (Bruscino)
 - a) How do we classify bear mortalities that occur inside the new proposed mortality threshold boundary that are bears that we moved into the area from outside the threshold boundary as part of a management relocation?
 - b) Should we reconsider how we treat fates of weaned and orphaned yearling and COY in survival analyses?
 - c) Management of interjurisdictional roadside/human habituated bears (information sharing, decision making, what works and what doesn't).
 - d) Is setting a mortality threshold based on an unknown population size a scientifically creditable approach to population maintenance? Has it proven impractical?
 - e) What information is provided by mark-recapture analyses from our capture data?
 - f) Helicopter darting in wilderness areas (e.g. Buffalo Plateau) to fill gaps in distribution of radio-collared bears.
 - g) How, when, and where should observation areas and flights be expanded to ensure full coverage of FWS suitable habitat area?
7. Standardizing location information (Haroldson)
8. Miscellaneous announcements

Shoemaker, Rebecca

From: Kerry_Gunther@nps.gov
Sent: Wednesday, October 31, 2012 1:08 PM
To: Frank_T_van_Manen/BRD/USGS/DOI.USGS.NPSX@nps.gov
Cc: Bryan_Aber/R4/USDAFS.FSNOTES@nps.gov; Servheen, Chris; daniel.thompson@wyo.gov; Dan.Bjornlie@wyo.gov; dmeints@idfg.idaho.gov; dtyers@fs.fed.us; fvanmanen@usgs.gov; higgs@math.montana.edu; imsgsche@math.montana.edu; KFrey@mt.gov; Mark_A_Haroldson/BRD/USGS/DOI.USGS@nps.gov; mark.bruscino@wyo.gov; Pat_Hnilicka/R6/FWS/DOI.FWS@nps.gov; Shoemaker, Rebecca; rharris@montana.com; rmace@mt.gov; Steve_Cain@nps.gov
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Kerry Gunther
Bear Management Office
Yellowstone National Park

307-344-2162

Frank T van Manen/BRD/USGS/DOI@USGS

10/31/2012 12:50 PM

To Kerry Gunther/YELL/NPS@NPS, Mark A Haroldson/BRD/USGS/DOI@USGS, Bryan Aber/R4/USDAFS@FSNOTES, Dan.Bjornlie@wyo.gov, mark.bruscino@wyo.gov, Steve Cain/GRTE/NPS@NPS, KFrey@mt.gov, rharris@montana.com, Pat Hnilicka/R6/FWS/DOI@FWS, higgs@math.montana.edu, imsgsche@math.montana.edu, rmace@mt.gov, dmeints@idfg.idaho.gov, chris.servheen@cfc.umt.edu, rebecca.shoemaker@cfc.umt.edu, daniel.thompson@wyo.gov, dtyers@fs.fed.us, fvanmanen@usgs.gov

cc

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Northern Rocky Mountain Science Center
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