

**From:** [McCormick, Melissa](#)  
**To:** ["Jennifer Stanhope"](#)  
**Subject:** RE: SWP  
**Date:** Friday, October 13, 2017 10:38:55 AM

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That works!

Cheers,

Melissa

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**From:** Jennifer Stanhope [mailto:[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)]  
**Sent:** Friday, October 13, 2017 10:22 AM  
**To:** McCormick, Melissa <[mccormickm@si.edu](mailto:mccormickm@si.edu)>  
**Subject:** RE: SWP

Melissa,

They do make sense. Do you think this statement captures what you are saying:

There is also not a consistent relationship between stem count and area of a colony or potential suitable habitat.

Thanks!

Jen

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**From:** McCormick, Melissa [mailto:[mccormickm@si.edu](mailto:mccormickm@si.edu)]  
**Sent:** Thursday, October 12, 2017 3:00 PM  
**To:** 'Jennifer Stanhope'  
**Subject:** RE: SWP

Jen,

Well, since we define the colony by where stems are, it would be reasonable to say that the larger colonies are generally ones with more stems. However, one example might be the Seneca State Forest colony, where we identified plants in 4 separate locations, but all are within about 100m, so for the data I sent you I called them one colony. That would spread it over a larger area. I think, in general, plants are pretty evenly spaced within a colony, so fewer stems means a smaller colony. We do have some colonies where a few plants are dispersed over a much larger area that would still be considered one colony, so the number of stems being related to the area covered by a colony isn't universal.

I hope my observations here aren't too muddled to make sense.

Cheers,

Melissa

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**From:** Jennifer Stanhope [mailto:[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)]  
**Sent:** Thursday, October 12, 2017 2:07 PM  
**To:** McCormick, Melissa <[mccormickm@si.edu](mailto:mccormickm@si.edu)>  
**Subject:** RE: SWP

Melissa,

Thank you for the information!

Quick question. Do you think the # of stems in a colony varies with the area that the colony occupies? I didn't think it was related but wanted to confirm with you in case someone asks.

Thanks,  
Jen

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**From:** McCormick, Melissa [mailto:[mccormickm@si.edu](mailto:mccormickm@si.edu)]  
**Sent:** Wednesday, October 11, 2017 4:29 PM  
**To:** 'Stanhope, Jennifer'  
**Subject:** RE: SWP

Okay. So it helps if I actually attach the file. Sorry.  
Melissa

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**From:** McCormick, Melissa  
**Sent:** Wednesday, October 11, 2017 4:28 PM  
**To:** 'Stanhope, Jennifer' <[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)>  
**Subject:** RE: SWP

Jen,  
It was good talking to you. Here are the data I promised. I hope they're helpful. Please let me know if you have any questions.  
Melissa

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**From:** Stanhope, Jennifer [mailto:[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)]  
**Sent:** Wednesday, October 11, 2017 3:26 PM  
**To:** McCormick, Melissa <[mccormickm@si.edu](mailto:mccormickm@si.edu)>  
**Subject:** Re: SWP

Hi Melissa,

We can chat if you want and I can follow-up with Troy if needed. I'm available until 4pm today.

Please give me a call at my #.

Jen

On Wed, Oct 11, 2017 at 3:21 PM, McCormick, Melissa <[mccormickm@si.edu](mailto:mccormickm@si.edu)> wrote:

Hi Jen,  
I have been trying reach Troy Andersen about a newly (?) found population of SWP in Washington and Jefferson National Forest that may need some monitoring and was wondering if you might have some time to chat about it. My understanding was that if I reached Troy, he'd likely want to conference you in. I left a voice mail for Troy, but he

hasn't called me back yet and I don't have an email address for him. If you have a suggestion of a good time to try to chat, I can likely make that work.

Cheers,  
Melissa

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

From: Jennifer Stanhope [mailto:[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)]  
Sent: Tuesday, August 29, 2017 9:29 AM  
To: Applegate, Jason R CIV USARMY USAG (US) <[jason.r.applegate.civ@mail.mil](mailto:jason.r.applegate.civ@mail.mil)>  
Cc: Whigham, Dennis <[whighamd@si.edu](mailto:whighamd@si.edu)>; McCormick, Melissa <[mccormickm@si.edu](mailto:mccormickm@si.edu)>  
Subject: RE: [Non-DoD Source] SWP 1 pager and light availability

Jason,

Thanks for your quick responses and locating the source.

Melissa,

Would you be ok if I cited you as personal communication regarding "Preliminary results suggest that a 30% increase in light availability is sufficient"? What are your thoughts on if light availability is much higher than that? My thoughts are that there may be negative impacts, possibly due to increased competition, changes in soil humidity and temperature? Could it negatively affect the mycorrhizal fungi? Please let me know what you think.

Thanks,  
Jen

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

From: Applegate, Jason R CIV USARMY USAG (US)  
[mailto:[jason.r.applegate.civ@mail.mil](mailto:jason.r.applegate.civ@mail.mil)]  
Sent: Tuesday, August 29, 2017 8:56 AM  
To: Jennifer Stanhope  
Cc: Whigham, Dennis; McCormick, Melissa  
Subject: RE: [Non-DoD Source] SWP 1 pager and light availability

Jennifer,

This was put together by Melissa McCormick at SERC for the National Park Service. She is cc'd on this email and can provide you with the pertinent information.

v/r,

Jason

Jason R. Applegate CE, CF, CMNRP | Natural Resources Specialist | Environmental & Natural Resources Division | Directorate of Public Works | Fort A.P. Hill

Phone: 804-633-8465 | Fax: 804-633-8443

Address: Building 308 | 13832 Anderson Camp | Fort A.P. Hill, VA 22427-3167

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Fort A.P. Hill Website - <http://aphill.army.mil> Environmental Handbook - <http://fortaphill.worlpress.com/enrd/>

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

From: Jennifer Stanhope [mailto:[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)]

Sent: Monday, August 28, 2017 12:13 PM

To: Applegate, Jason R CIV USARMY USAG (US) <[jason.r.applegate.civ@mail.mil](mailto:jason.r.applegate.civ@mail.mil)>; Whigham, Dennis <[whighamd@si.edu](mailto:whighamd@si.edu)>

Subject: [Non-DoD Source] SWP 1 pager and light availability

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Hi Jason and Dennis,

I came across this document (managing SWP in the mid-Atlantic) while working on the Ft AP Hill Biological Opinion and I'm pretty sure it came from one of the files that Jason sent me.

Can you verify/confirm who created this document and where it came from?

Also would it be ok if I cited it, in particular the part about "Preliminary results suggest that a 30% increase in light availability is sufficient"?

If you are not comfortable with me citing the document specifically, I can also use personal communication with Dr. Whigham or whoever you recommend.

My interest in this statement is that preliminary evidence indicates increased light availability (~30%) may provide beneficial effects to SWP but there may be negative impacts at higher light levels (possibly due to increased competition, changes in soil humidity and temperature, etc).

Thanks so much for your help!

Jen

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Jennifer Stanhope

Fish and Wildlife Biologist

U.S. Fish and Wildlife Service

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Jennifer Stanhope

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