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From: [Tyler Bogardus](#)
To: [Mike Murray](#); [Darrell Echols](#)
Cc: [Thayer Broili](#); [Britta Muiznieks](#)
Subject: Gateway Electric Fencing Questions
Date: 07/29/2009 08:28 AM
Attachments: [MVC-882Frev.JPG](#)

To all,

I contacted Bruce Lane with Gateway Recreation Area about there use of electric fences and his comments are below. He also attached a pic of one of them setting up the electric fence.

At this time I do not see the need for us to set up an electric wire outside of our PIPL exclosures like gateway does.

Our setup is going to be a little different then gateways. He recommends two wires, the scientific papers and fencing companies recommend 5 to 6 wires. We are going to be using 5 wires up to a total height of 44 inches. People have documented fox and coyote jumping electric wires that are under about 36 inches.

We will have the flexibility of determining how many wires and the spacing when setting up the fence. I do have a plan for this and will start to get that stuff in writing coming up this fall. I am going to need to produce a JHA for working with the fence, as well as a protocol and methods. Also will be working on signage for the fence.

I do really feel that this is going to be a great non-lethal management option for the bodie island colonial waterbirds.

Thanks, I have been doing research and will continue looking into this subject and I am going to include what I find in the methods and protocols this fall.
Thanks and let me know if there is anything else we need to do right now.

Tyler Bogardus
Resource Management Division
Cape Hatteras National Seashore
P.O. Box 190 Buxton, NC 27920
(252) 216-6872

-----Forwarded by Tyler Bogardus/CAHA/NPS on 07/29/2009 08:00AM -----

To: Tyler Bogardus/CAHA/NPS@NPS
From: Bruce Lane/GATE/NPS
Date: 07/27/2009 02:44PM
Subject: Re: Electric Fencing Questions

Tyler,

We are using battery operated fence chargers with our piping plover predator exclosures. We don't electrify the exclosure but we place a single wire around the exclosure about 8" off the ground and about 8" away from the exclosure. The wire is charged with a Zareba brand "Yellow Jacket" fence charger that can be easily found online from a number of agricultural supply companies. We charge them with a 6 volt rechargeable battery that usually lasts about two weeks before needing to be recharged.


The main predator we are trying to deter is red fox. The exclosures themselves are

working well for gulls and other birds as well as for the occasional cat or raccoon. The electric wire works well on the fox. Although they rarely get into an enclosure the fox do still cause some nest abandonment while trying to get in or circling around the enclosure.

I think this set up should work around a tern colony. You might need two wires because of the variety of animals you are trying to deter. One at about 8" and another at 12" - 14" might work. You just want to be sure the wire is high enough that it would not shock a tern if it was walking near or under the wire. Attached is a photo of the fence charger and (orange) electric wire.

Good luck with the electrified fence and give a call if you have any questions. Jeanne McArthur-Heuser (732-872-5936) is the primary endangered species person here at Sandy Hook and can also help you.

Bruce
732-872-5931

 Tyler Bogardus/CAHA/NPS

**Tyler
Bogardus/CAHA/NPS**

ToBruce Lane/GATE/NPS@NPS
cc

SubjectElectric Fencing Questions

07/24/2009 08:18 AM

Bruce,

Hi. I am the predator management/shorebird bio-tech here at Cape Hatteras National Seashore and had some general questions about Gateways use of electric fencing to protect PIPL and other nesting birds.

We have an active trapping program in progress targeting feral cats, opossum, raccoons, mink, red and grey fox and coyotes. Even with this removal program in place we are having very low productivity at one of our least tern colony sites. We generally have about 150-200 nesting pairs in this colony and fledge 0-10 birds annually. The main predators of this colony are coyotes, fox, raccoon and opossum. We are going to try an electric fence around this colony next year and are looking to other parks that currently use electric fencing for suggestions and comments.

So I was wondering what Gateway is currently using, what predator species you are dealing with, what your success has been and any recommendations or suggestions on this matter.

Thanks
Tyler Bogardus
Resource Management Division
Cape Hatteras National Seashore
P.O. Box 190 Buxton, NC 27920
(252) 216-6872

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