

# **ADVANCEMENTS IN CONTROLLING AVIAN DEPREDAATION**

by  
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of  
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## **✓ KNOW YOUR ADVASARY!**

- Determine your aquaculture concerns
- Personal observations
- Monitor bird activity
- Research individual avian species
- Involvement/Activities
- Final Outcome



**Double-crested Cormorant  
(DCCO)**



**American White Pelican  
(AWP)**



**Great Blue Heron  
(GBH)**



**Great Egret  
(GE)**

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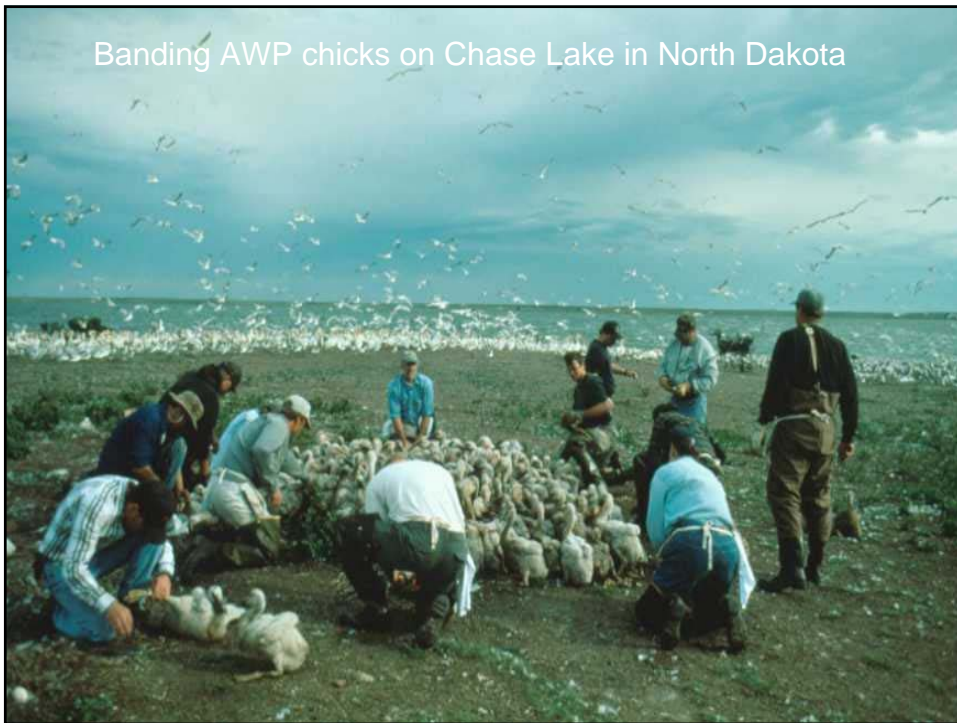


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## ***DCCO COSTS?***

- 1 DCCO consumes **2/3 lb.** of channel catfish per day
- +/- 70,000 DCCO were documented during the Mid-winter roost count in February of 2002
- DCCO begin winter migrations in late September and migrate again in mid April.
- If the price per lb. of catfish were at \$0.70 /lb. X 70,000 DCCO X 2/3 X 150 days of winter migration = 4.9 million X 5 (replacement cost of fingerling catfish to marketable product) = annual loss of 20-25 million dollars.

**U.S. Fish and Wildlife Service  
Federal Depredation Permits**



**UNITED STATES DEPARTMENT  
of  
AGRICULTURE  
/ ANIMAL PLANT HEALTH  
INSPECTION SERVICE /  
Wildlife Services  
or  
WS**





Propane cannon



Pyrotechnics



Shell crackers



Live Ammo

**Non-Lethal Methods**



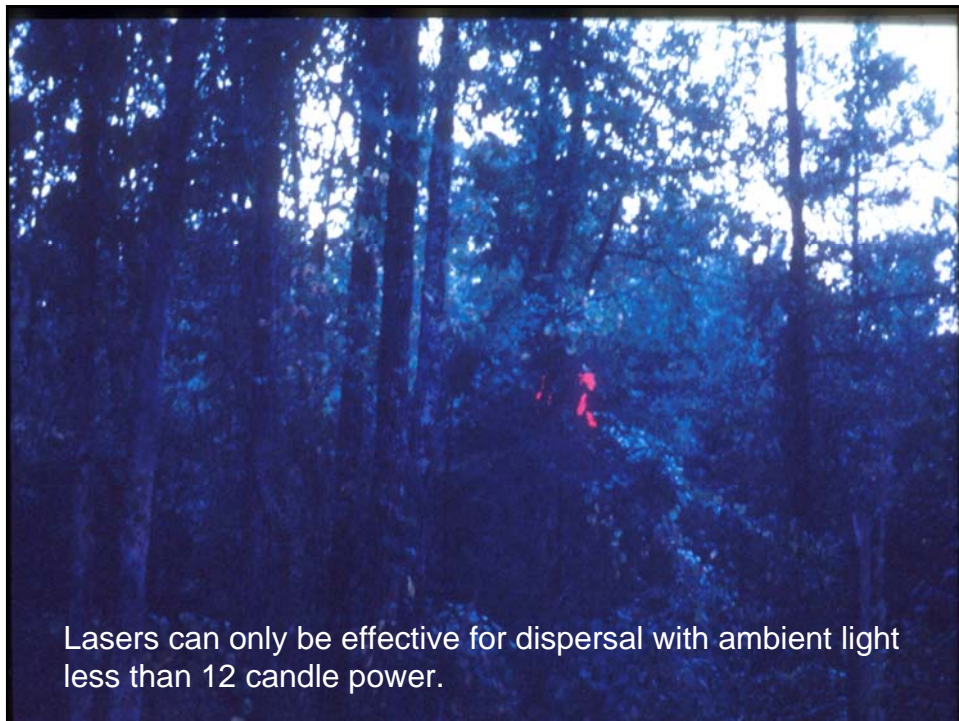
Hand held Lasers



Scaryman



**Desmand Laser effective range 700-1000yards**



Lasers can only be effective for dispersal with ambient light less than 12 candle power.



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