

New World Screwworm

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New World Screwworm (NWS)



SCREWWORM.GOV

New World Screwworm

(*Cochliomyia hominivorax*)



The name refers to the maggots' feeding behavior as they burrow (screw) into the wound, causing extensive (often deadly) damage by tearing at the hosts' tissue with sharp mouth hooks.

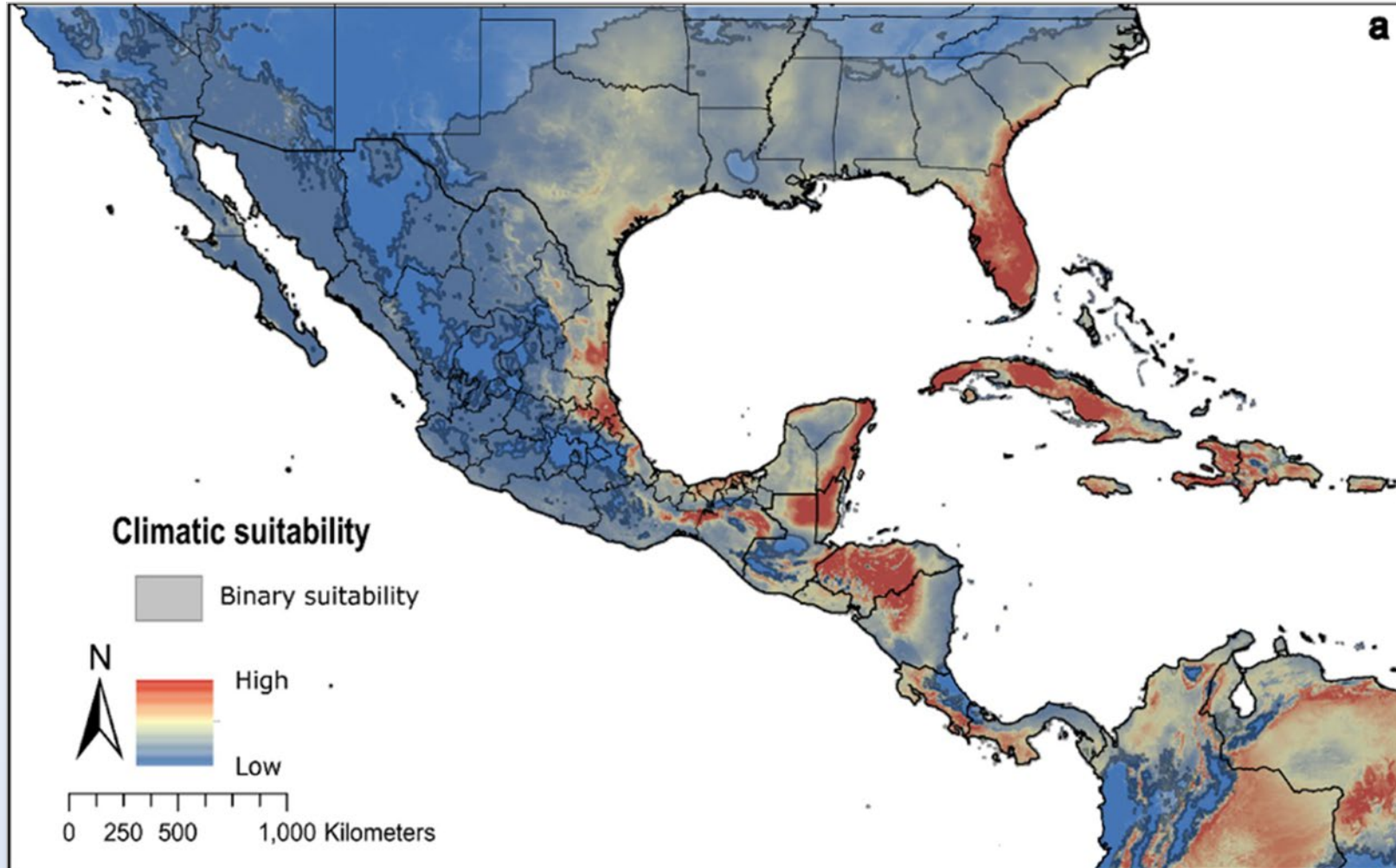
NWS Economic Impact

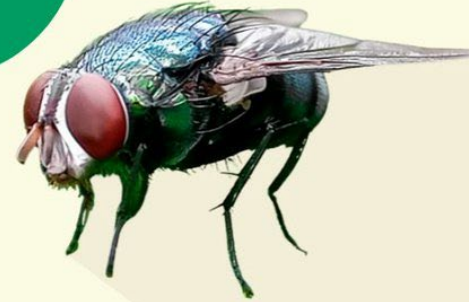
- Adjusting for inflation, a NWS outbreak of roughly moderate magnitude like the 1976 outbreak could cost Texas producers **\$561 million** per year and the Texas economy a loss of **\$1.4 billion**.
- NWS threatens over **\$100 billion** in United States economic activity tied to the cattle and livestock industry alone.



Photo by Dr. Feliciano Bravo, COPEG

Modeled Climatic Suitability for NWS Reemergence





USDA's 5-Pronged Plan to Combat New World Screwworm

- 1 Stop the Pest from Spreading in Mexico and Ensure We Are Full Partners in Eradication
- 2 Protect the U.S. Border at All Costs
- 3 Maximize Our Readiness
- 4 Take the Fight to the Screwworm
- 5 Innovate Our Way to Eradication

USDA Confirms Presence of New World Screwworm in the United States

Response Strategy



Protect uninfested animals by preventing contact with NWS flies.

Disrupt the NWS reproduction cycle to prevent establishment.



Key Activities

01 CARRY OUT A UNIFIED RESPONSE

Coordinate a unified Federal and State response to detect, contain, and communicate about NWS, using USDA's emergency authorities and incident command structure.

02 PROTECT UNAFFECTED AREAS

Establish infested and surveillance zones, implement quarantines, and launch rapid surveillance and tracing to contain and monitor NWS populations.

03 MANAGE INFESTED PREMISES

Manage infested animals and premises following USDA and State guidelines, including NWS animal drugs/pesticides, humane euthanasia if needed, and approved disposal procedures.

04 MANAGE NWS IN WILDLIFE

Coordinate with State, Federal, and Tribal partners to monitor, manage, and respond to NWS in wildlife through surveillance, and carcass disposal.

05 DEPLOY TRAPS AND STERILE FLIES

Deploy traps and sterile flies to monitor, contain, and eliminate NWS, using surveillance data to guide zone adjustments and response actions.

06 FACILITATE HEALTHY ANIMAL MOVEMENT

Use standardized guidance to authorize the movement of healthy animals and support continuity of business.

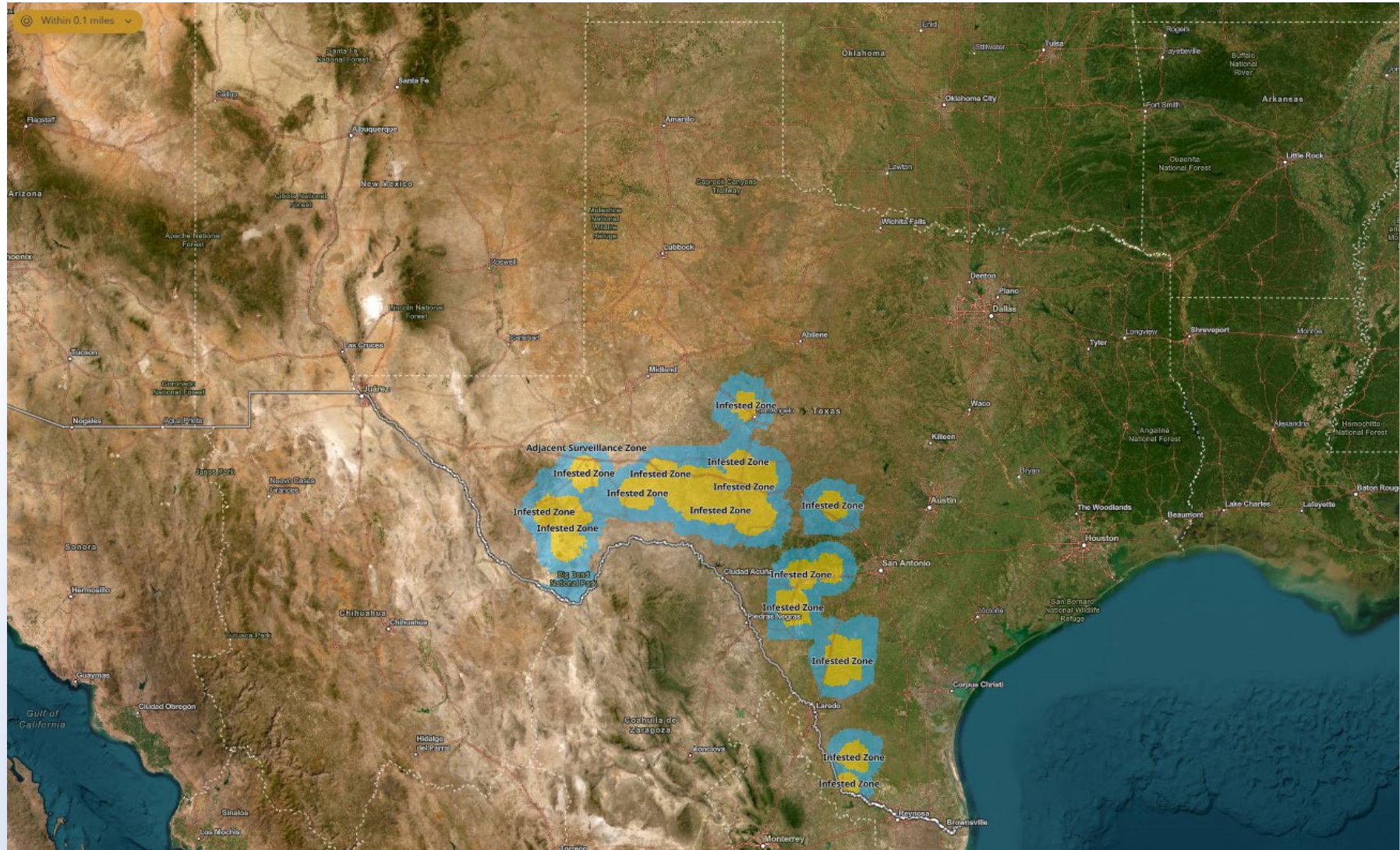
07 TRACK AND REPORT ACTIVITIES

Use EMRS to track surveillance, sterile fly releases, and field data, and to support outbreak reporting, mapping, and international notifications.

08 ASSESS AND REPLENISH RESOURCES

Continuously assess and request needed supplies, equipment, and personnel to support NWS response operations through EMRS and the National Veterinary Stockpile.

Texas Infested Zones



NWS: Prevention & Treatment



CONDITIONALLY APPROVED BY FDA

 Dectomax-CA1(doramectin injection): Prevention and treatment of NWS in cattle; prevention of reinfestation for 21 days.	 Exzolt Cattle-CA1 (fluralaner topical solution): Prevention and treatment of NWS in cattle.	 Credelio Quattro-CA1 (lotilaner, moxidectin, praziquantel, pyrantel): Treatment of NWS in dogs.
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Important Resource: <https://www.fda.gov/animal-veterinary/safety-health/new-world-screwworm-information-veterinarians>

EMERGENCY USE AUTHORIZATIONS (EUAS) BY FDA



NexGard (afoxolaner) chewable tablets: Treatment of NWS in dogs and puppies.
NexGard COMBO(esafoxolaner, eprinomectin, and praziquantel topical solution): Treatment of NWS in cats and kittens.



Credelio (lotilaner) chewable tablets: Treatment of NWS in dogs and puppies.
Credelio CAT (lotilaner) chewable tablets: Treatment of NWS in cats and kittens.



Dectomax/Dectomax-CA1 (doramectin injection): Prevention and treatment of NWS in dairy cattle. Prevention of NWS in horses, swine, sheep, and deer



Ivomec (ivermectin) injectable solution: Prevention of NWS in cattle.



Negasunt Powder (coumaphos, propoxur, and sulfanilamide topical powder): Prevention and treatment of NWS in cattle, swine, goats, sheep, horses, donkeys, domestic hybrid equids, and captive wild, exotic, and zoo mammals.



F10 Antiseptic Wound Spray and Barrier Ointment with Insecticide (benzalkonium chloride, polyhexanide and cypermethrin topical ointment): Prevention and treatment of NWS in cattle, horses, minor species of hoof stock, raptors and other wild birds, pet birds, and captive wild, exotic, and zoo mammals.



Nitenpyram Tablets (nitenpyram): Treatment of NWS in dogs, puppies, cats, and kittens



Ivermectin Liquid for Horses (ivermectin oral solution): Prevention of NWS in horses.



CLiK Extra (dicyclanil topical suspension) wound spray: Prevention of NWS in sheep, cattle, goats, swine, camelids, and the following captive and captured wildlife species: cervids, American bison, bighorn sheep, and Sonoran pronghorn.



Simparica TRIO (sarolaner, moxidectin, and pyrantel chewable tablets): Treatment of NWS in dogs and puppies



Movement Restrictions



All livestock and companion animals coming from an NWS Infested Zone must:

- Be accompanied by an animal movement certificate (provided by state-of-origin) approved by the state-of-origin and BOAH prior to shipment.
- Be inspected by a USDA-accredited veterinarian within 5 days of departure and obtain a certificate of veterinary inspection (CVI) issued within 5 days of movement to Indiana.
- Be accompanied by a CVI documenting application of an effective treatment for NWS:
 - **Livestock and poultry species:** applied within 14 days of movement unless going directly to slaughter.
 - **Cats and dogs:** applied within 5 days of movement

Movement Restrictions



Indiana Animals Returning to Indiana

Animals leaving Indiana for exhibitions or other temporary movements may return to Indiana on the same CVI used for travel if:

- The CVI is still valid (less than 30 days) and
- The animal has not traveled into an infested zone.

Exhibition Requirements

Currently, BOAH has not changed exhibition requirements for fairs or open shows. All out-of-state entries must meet applicable interstate requirements.

Report Suspected NWS Cases

