Wild Pig Damage & Conflicts



Wild Pigs

- One of the most devastating invasive species
- Populations are increasing and expanding
- Poses a threat to humans on many levels



History of Wild Pig Problems



US Hog Damage in the 1600s

- Feral swine were property
- Damage reimbursement
- Native American conflict
- King Phillip's War in 1675













Wild Pigs: one of the greatest modifiers of natural plant communities

- Rooting (≤1m)
- Trampling
- Foraging
- Competition
- Disease

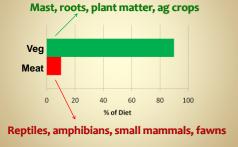


The Ideal Invasive Species

- Diet Opportunistic Omnivore
- Fecundity Domestication influence
- Habitat Generalist
- Mortality No predators



The Opportunistic Omnivore





Agricultural Damage

- Often the most publicized
- Direct, tangible monetary costs
- \$52 Million in Texas
- \$57 Million in Ag region of Georgia
- \$75 Million in Alabama
- Poland 70% of wildlife damage to crops is wild boar
- Production decision now made based on wild pigs





















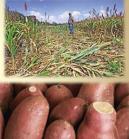






Most all crops can be affected





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Conflict with Livestock



Interactions with Livestock

- Food loss
- Disease risk
- Pasture damage (16% in Spain)





Contact with Livestock



Disease Impacts to Livestock

- Pseudorabies
- Swine Brucellosis
- Foreign animal diseases





news

Jul 24, 2014

African Swine Fever hits first pig farm in Poland

HEALTH / DISEASES

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African Swine Fever (ASF) is no longer just present in wild boars in the European Union. The virus has also been confirmed on a swine farm in Poland.



On Wednesday, Polish chief veterinary officer Marek Pirsztuk **issued a statement** about the confirmation of ASF on a farm in the Bialystok district. The National Veterinary Institute and the Veterinary Institute of Pulawy had found indications for ASF on a farm holding five pigs in Podlaskie province, Bialystok district, in the municipality Gródek – an area roughly 5 km away from the border with Belarus. It is the

Forest Damage

- Forest Plantations (Pine spp)
 - Roots of seedlings consumed
 - 6/min 1,000/day
- Deciduous Forests (Oak, Hickory, Beech)
 - Pig population dynamics linked to mast
 - Seeds and seedlings consumed





Forest Damage

- Forest Regeneration Affected
 - Pigs influence species composition
 - Non-palatable exotic tree species invade
- Hawaiian Rain Forest
- Australia
- Malaysia

Chinese Tallow 2x more abundant in unprotected plots



Human Safety Vehicle Collisions



- US ~\$36 million Wild Pig Vehicle Collisions
- France 20,800 car collisions in 2009



Human Safety Disease

- California Spinach E. coli from wild pigs
- 3 died, 276 sick
- \$74 million in loss



Wildlife Damage



Some wildlife have learned to benefit...



Wildlife Impacts Food Competition

Season	2-yr Average Diet Overlap
Fall	46%
Winter	28%
Spring	26%
Summer	25%
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Wildlife Impacts

- Sea turtles (≤80% nest destroyed in FL)
- Ground-nesting birds
- Alligator nests
- Small mammals
- Herpetofauna



Environmental Damage

- Soil
 - Erosion
 - Nutrient cycling
- Leaching of minerals
- Marsh/Wetlands



 \$1-4 million in damage valuation of sensitive marsh habitat

Environmental Damage

- Aquatic
 - Shellfish
 - Aquatic insects
 - Amphibians
 - Water quality
 - Increased bacteria & E. coli



Urban/Suburban Conflict

Example - Wild Boar in Berlin



















Other Issues to Consider

- Time and money is finite.
- \$ and personnel diverted to pigs.



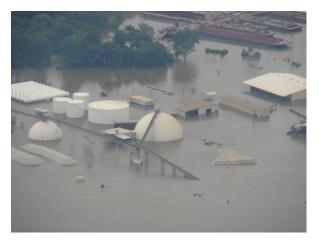
















"Wild hogs... the greatest

wildlife management

challenge in the 21st

century...."



Dr. Jack Mayer Savannah River Ecology Laboratory





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