

AVIATION STORMWATER DESIGN

Managing Wildlife Hazards Near Airports



Washington State
Department of Transportation



Federal Aviation Administration

Aircraft wildlife strikes are the second leading cause of aviation-related accidents.

Collisions cost the United States civil aviation industry \$500-\$600 million in direct damage and associated costs per year.



Most wildlife strikes occur on or in immediate proximity to the airfield

0-3,000 ft ➤ 92% of strikes

0-500 ft ➤ 73% of strikes

0-100 ft ➤ 60% of strikes



Many stormwater facilities attract birds and other wildlife, which creates hazards for airport operation.

Herrera, WSDOT, and the FAA partnered to customize stormwater facility designs that would not attract birds and wildlife.

The resulting stormwater facility design for airports is the first manual of its kind in the United States.