



& BENEFITS THREATS

Benefits of Urban Trees

- clean air
- produce oxygen
- stormwater management
- city cooling
- reduce asthma rates
- reduce stress
- increase property values
- protect biodiversity
- increase recreation rates
- beautification

Benefits of Urban Birds

- control pests
- encourage native plantings
- promote conservation practices
- promote outdoor hobbies
- support economy
- connect people to nature

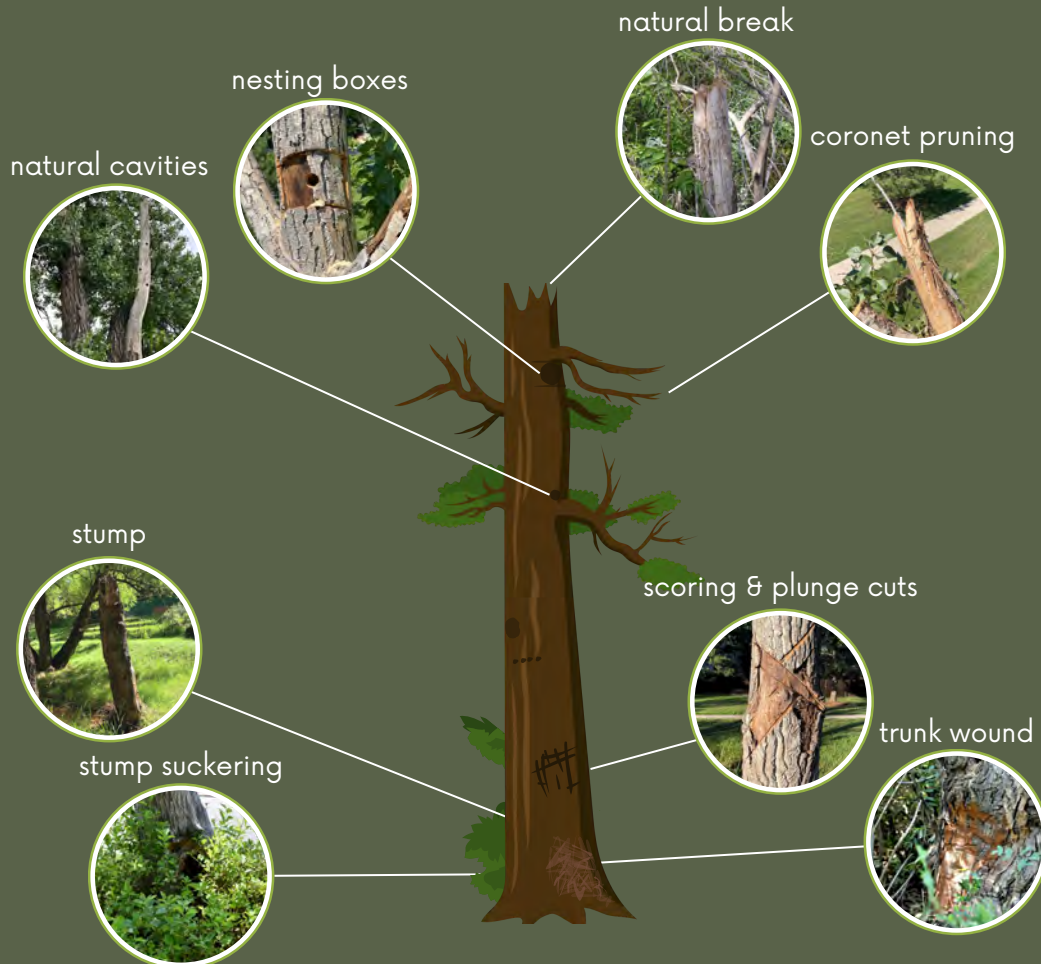


Threats to Cavity Dwellers in Urban Environment:

- removal of natural habitat- dead trees
- improper use of pesticides
- urbanization/ destruction of native habitat
- reduced plant diversity
- competition for cavities with invasive species

REPURPOSING HAZARD FOR HABITAT ON THE FRONT RANGE:

A GUIDE TO PROMOTING BIRD ACTIVITY IN URBAN ENVIRONMENTS THROUGH HAZARDOUS TREE MITIGATION



created by:



University of Colorado
Boulder

with support from:



PRESERVATION
TREE CARE
"For the ♥ of Trees"

PRUNING TECHNIQUES:

Methods of Urban Wildlife Habitat Promotion



PASSIVE

be aware of preexisting habitat. as safety allows, advocate to leave them be!

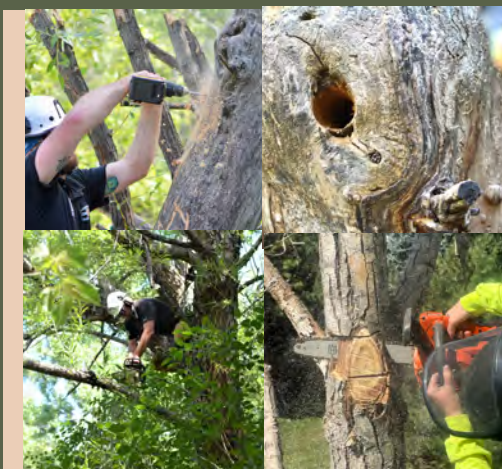
examples: stump suckering, snag, natural fracture, stump



INTERMEDIATE

all you need is a chainsaw! potentially utilize climbing gear

examples: boring/plunge cuts, scoring/hashing, trunk wounding, coronet cuts (cuts made to mimic natural breaks)



INVOLVED

requires additional expertise, gear, and tools (ex: drill with spade bit attachments)

examples: drill cavity holes, mimic spiral fractures, bird house, nesting box installation

Common Cavity Nesters within the Urban Front Range

TALL NESTERS/ HUNTERS

30+ ft. Perches, Platforms, and Nesting Sites

- Hawks
 - Cooper's Hawk
 - Sharp-shinned Hawk



- Owls
 - Great-horned Owls
 - Eastern Screech Owls



WIDE RANGE NESTERS

~5-30ft. Nesting Cavities

- ~3 inch diameter entrances:
 - American Kestrel



~4-15ft. Nesting Cavities

- ~1.125 inch diameter entrances:
 - Black-capped Chickadee



- ~1.25 inch diameter entrances:
 - Downy Woodpecker
 - White-breasted Nuthatch



- ~1.5 inch diameter entrances:
 - Hairy Woodpecker
 - Tree Swallow



- ~3 inch diameter entrances:
 - Northern Flicker



LOW NESTERS

~4-10ft. Nesting Cavities

- ~4 inch diameter entrances:
 - Wood Duck



- ~1.125 inch diameter entrances:
 - House Wren



*note: this graphic is an approximation- cavities will be used anywhere on the tree that accommodates entry size and space for enlargement
In most cases: the higher the nesting site, the better*