Bird Study: Year 2









Total blood Hg in Mallard





Contaminated:Reference:•Basic Park•Middle•Dooms•North













Adult Song Sparrow







Adult Bluebird





Tracking post-fledging bluebirds

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Hg Levels of independent Eastern Bluebirds

Date

Blood mercury of individual fledgling bluebirds





DIET STUDY

<u>Ligature samples:</u> Carolina wren = 90 House wren = 151 Bluebird = 171



Food items taken from nestlings

Conclusions: •Terrestrial songbirds are eating many spiders •Nestling blood Hg increases with time since fledge •Many non-targets have elevated blood Hg •Hg present in several non-piscivorous food webs e.g., mallard = bluebird = woodpecker

•Distribution of Hg availability differs by species







Anne Condon Rebecca Brasso Scott Friedman Ariel White



Possible Future work:

Distance contamination moves in bird prey
Isotopic origins of food chains
Relative reproductive success of wrens
Swallow success and levels in third year of life
Waterfowl on entire length of river
Mallard prey items