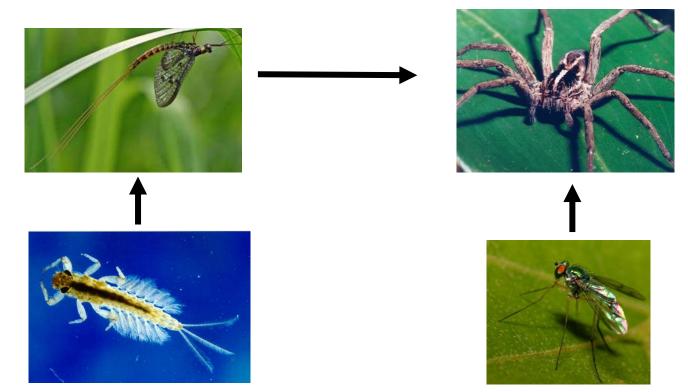


How are terrestrial spiders getting aquatic mercury? *Is proximate avian source river or floodplain?*

Emerging aquatic invertebrates?

Terrestrial invertebrates?



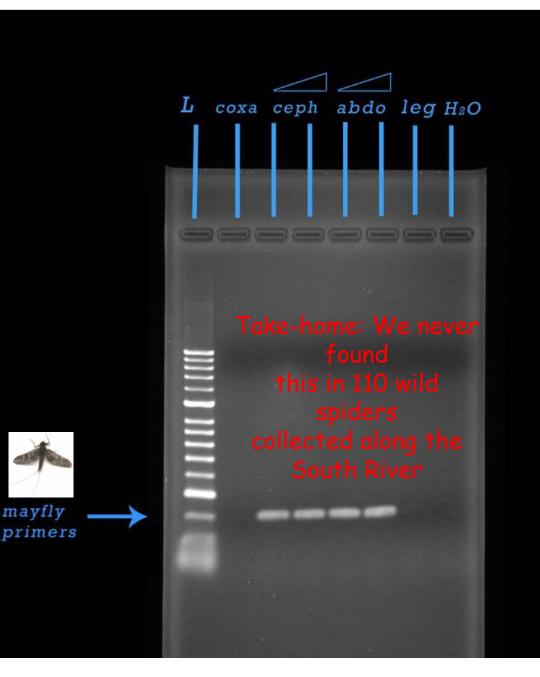


Digestion Time Trials

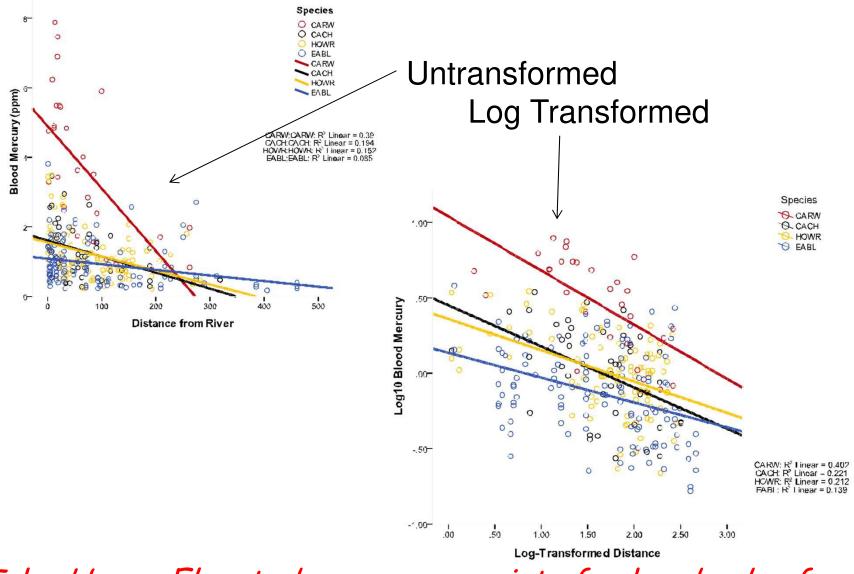
4 hrs 12 hrs 24 hrs 🗹 48 hrs 🗹 72 hrs 96 hrs 120 hrs 144 hrs 168 hrs 192 hrs 🗸 $216 \text{ hrs} \times$



Wild spider gut contents study

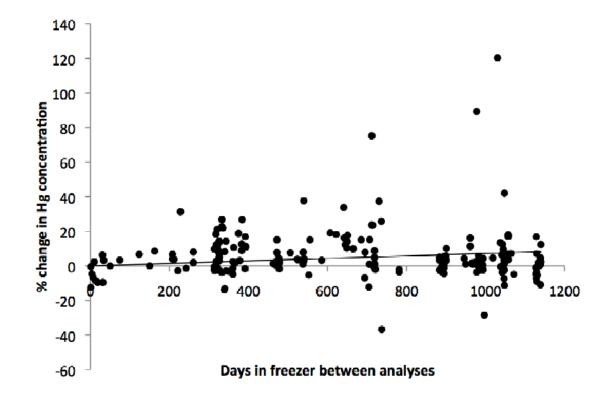


Decline in total mercury with distance from river



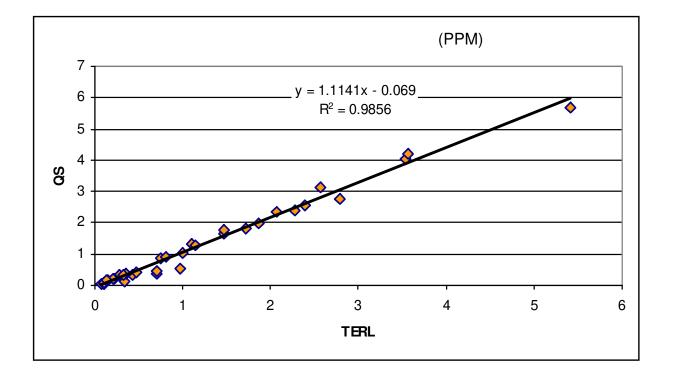
Take-Home: Elevated mercury persists for hundreds of m

Percent change between original and stored sample

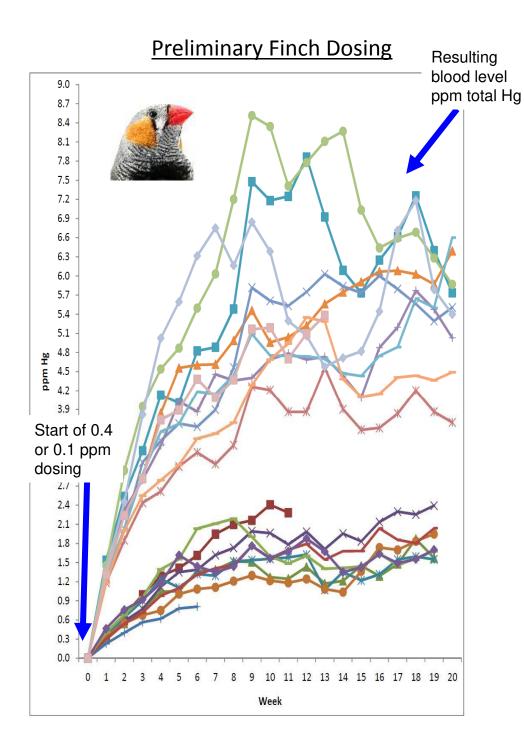


Take-Home: It's OK to keep studying the samples from 2005-2008 fieldwork

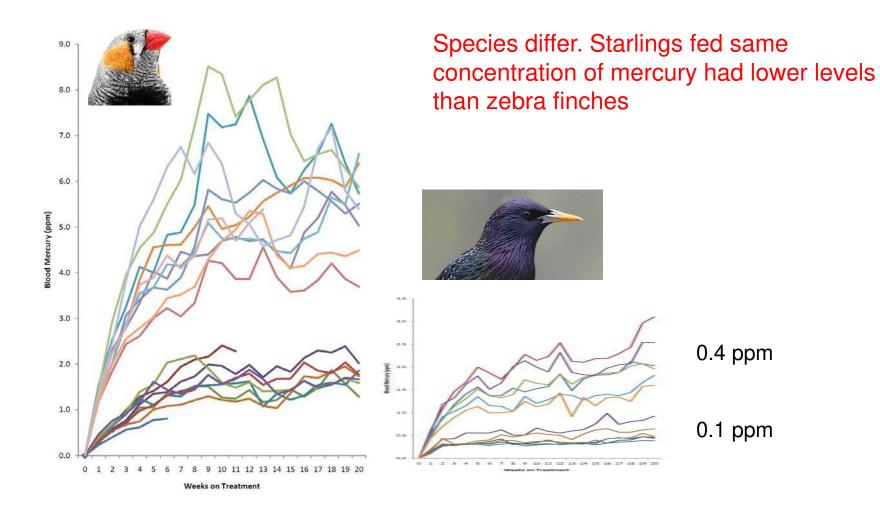
Texas A&M TERL vs. Quicksilver: Methylmercury in bird egg

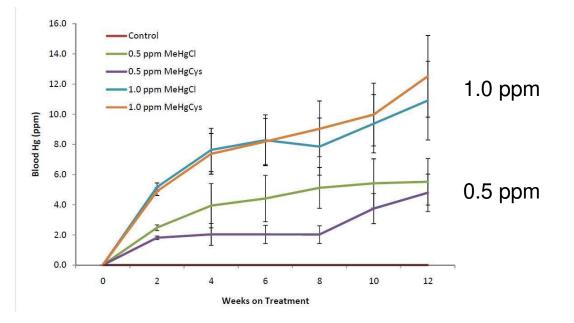


Take-Home: It's OK to keep using Quicksilver for MeHg



Individuals vary in mercury accumulation even on identical diets





Two forms of mercury result in similar levels in blood and eggs

