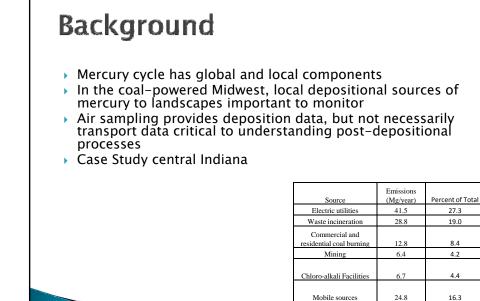


Gabriel Filippelli Carrie Hatcher, Julie Crewe Department of Earth Sciences Indiana University Purdue University Indianapolis (IUPUI)



Other sources

Total

30.9

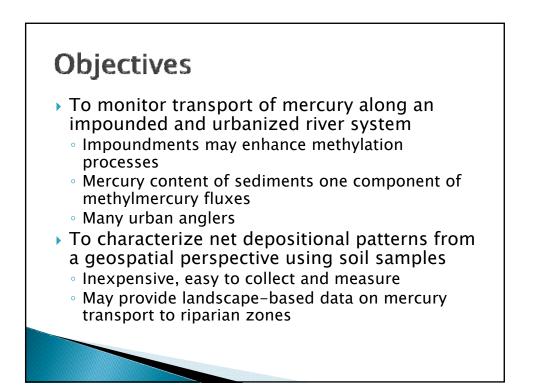
151.9

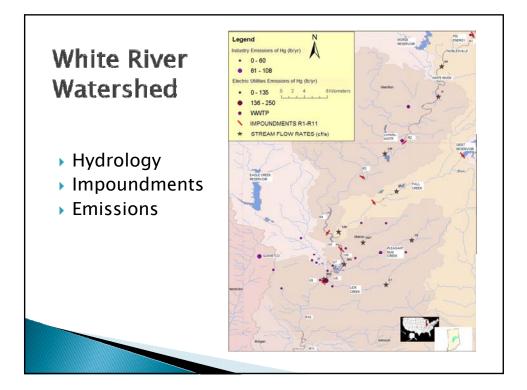
20.3

100

1

Central	Indiana emission so	UICES	
Facility Name	Pounds/Year	Location	
IPALCO-Pritchard Station	225.2		
IPALCO-South Station	224.7		
PSI Energy-Noblesville	133.3	Noblesville	
Quemetco, Inc.	98.0		
Daimler Chrysler Corporation Foundry	48.5		
		·	



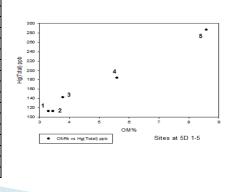


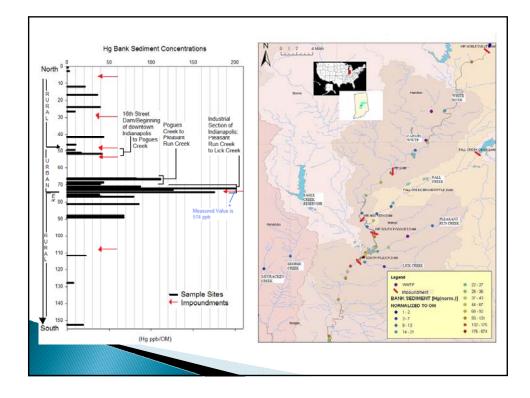
Bank sediment mercury

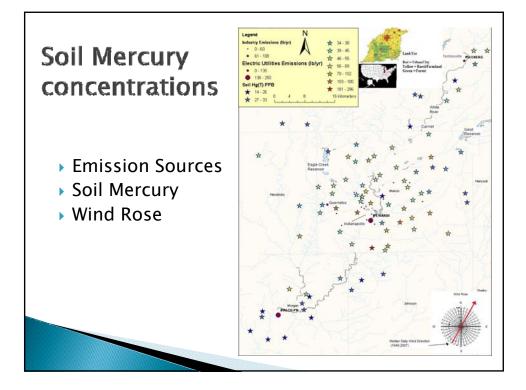
•Total Mercury concentrations vary between 6 ppb and 830 ppb •% OM varies between 1.7 and 14.2

•Utilized normalization approach to constrain excess Hg Dilution by terrigenous matter may obscure mercury source patterns Normalization to organic matter

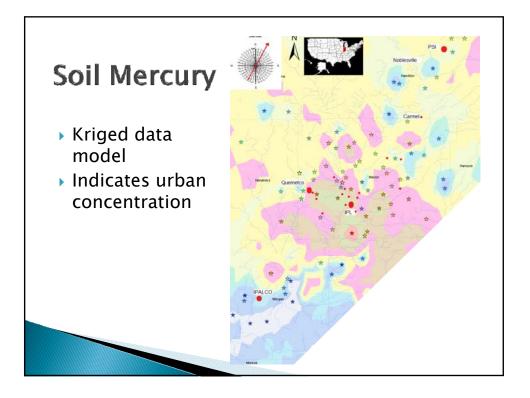
npoundment				
Stretch	[Hg Total]	[Hg]		
Site	ppb	Normalized To OM	% OM	
R1	6	2	4.4	
R2	261	131	2.0	
R3	158	29	6.6	
R4	128	24	6.5	
U5	99	27	8.3	
U6	173	25	8	
U7	301	66	5	
U8	830	159	4	
U9	322	39	14.2	
R10	229	82	2.9	
R11	226	62	3.8	
RIZ	72	22	3.1	
R13	13	7	1.7	
R14	38	19	2.1	

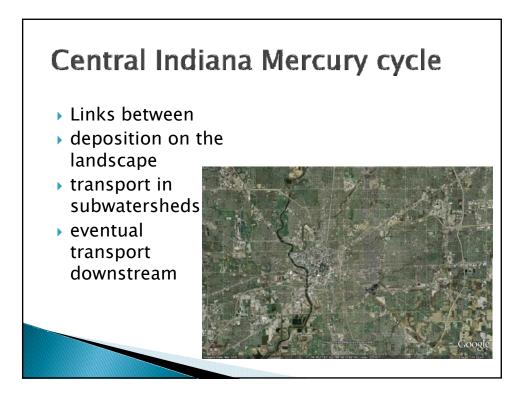


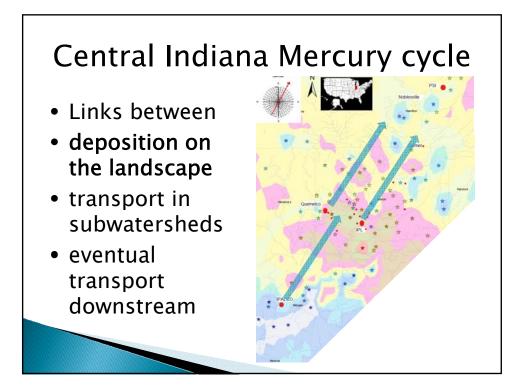


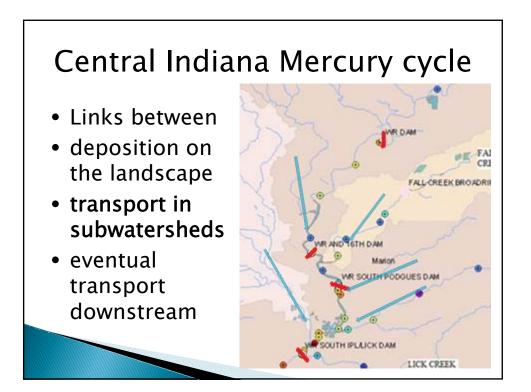


4



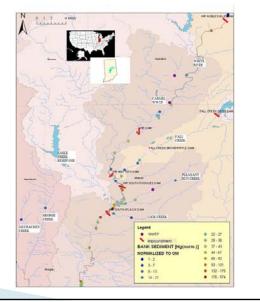




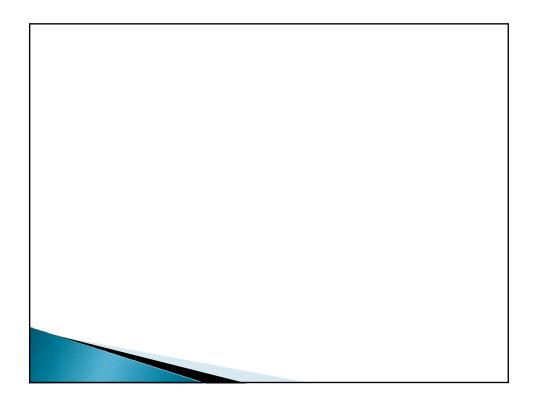


Central Indiana Mercury cycle

- Links between
- deposition on the landscape
- transport in subwatersheds
- eventual transport downstream



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Soil and Sediment	1	
Ratio		
Watershed Values		
SOIL/SED.	Soil Hg(T)/Sed Hg(T)	
A	0.34	
В	0.22	
C	Drains into	
D	0.22	
F	0.14	