

SSHCZO Available Datasets – www.czo.psu.edu & criticalzone.org – 11 May 2015

†Measurements presumed finished or not ongoing

<u>Garner Run</u>	<u>Public</u>	<u>Embargo</u>
†Fiber-Optic Distributed Temperature Sensor		2014
Soil Geochemistry		2014
<u>Shale Hills</u>	<u>Public</u>	<u>Embargo</u>
†Watershed Reanalysis.....	1990 – 2010	
Stream Flow.....	2006 - 2012	
Groundwater	2009 - 2012	
Precipitation (hourly and daily)	2006 - 2013	
†Real-Time Hydrology Network (RTH2 & 3) Soil Moisture.....	2009 - 2012	
Land-Atmosphere (“Surface”) Fluxes	2009 - 2014	
†Hydropedologic Properties.....	2007 – 2012	2013
†LPM Disdrometer.....	2009 - 2014	
Sap Flow.....	2009 - 2012	2013 - 2014
Flux Tower Meteorology	2009 - 2013	
COSMOS (Shale Hills; links to external site)	2011 - 2014	
†Bedrock Elevation.....	unknown	
†Ground Survey Map.....	2010	
†Control Point Survey.....	unknown	
†Terrestrial Laser Mapping.....	2010	
Tree Survey	2008	2010 - 2012
†Leaf Area Index		2010
†LIDAR Vegetation Survey		2010
Litter / Dendroband.....		2011 – 2013
Above-Ground Tree Biomass Data		2008 - 2012
†LAI Movie	2010	
PHENOCAM (links to external site).....	2012 - 2014	

National GIS (DEM, Digital OrthoPhoto, Geology (USGS), Land Cover, Soils, Watershed Boundary)	unknown	
Soil Gas & Porewater Concentration	2013 - 2014	
†Gamma Logs	2012?	
†Wireline Logs	2006 – 2008	
†Solute Tracer Tests	2011	
†Seismic Refraction & Surface Wave Analyses	2013	
Soil Gas Concentration, pCO ₂ & CO ₂ Flux	2008 - 2010	
Soil Geochemistry (link to CZChemDB)	2014	
†Aqueous Geochemistry (ground, soil pore, and stream water)	2006 - 2011	
†Stable Isotope Hydrology (precipitation, stream, ground, and soil water)	2008 - 2011	
†Tree Tracer Study	2012	
Root Length Density	2013	
†Tree Isotope Chemistry	2011 – 2014	
†Tree Throw Data	2014	
†Ground Penetrating Radar	2008	
Model Input Soil Parameters	2014?	
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<u>Shavers Creek Watershed</u>	<u>Public</u>	<u>Embargo</u>
Discharge and Water Chemistry		2014
Surface and Groundwater Chemistry		2014
†LIDAR (leaf-off and leaf-on)	2010	
†LIDAR-Derived (DEM, Density, and Hillshade)	2010	
†Vegetation Analysis	2010	
Geodatabase (GIS)	2014	
National GIS (DEM, Geology (USGS), Land Cover, Soils, Watershed Bdy.)	unknown	
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<u>Pennsylvania</u>	<u>Public</u>	<u>Embargo</u>
PAMAP LIDAR (links to external site)	2006 - 2008	

PASDA (links to external site)various

Shale Transect _____ Public _____ Embargo

Meteorology2010 - 2014