

## **Data Collection Worksheet**

**Please Note:** The Data Collection Worksheet (DCW) is a tool to aid integration of a PhenX protocol into a study. The PhenX DCW is not designed to be a data collection instrument. Investigators will need to decide the best way to collect data for the PhenX protocol in their study. Variables captured in the DCW, along with variable names and unique PhenX variable identifiers, are included in the PhenX Data Dictionary (DD) files.

Ask the respondent about current and previous residences in which he or she has lived for 3 months or longer. Begin with the current residence, and complete one row for each residence. Geocoordinates are obtained after the interview is completed by entering the complete address into a web-based geocoding tool such as the one developed by the University of Southern California's GIS Research Laboratory and maintained at Texas A&M University at <u>http://geoservices.tamu.edu/Services/Geocode/</u>. Utilize this or a similar tool or other reliable geocoding databases to determine the geocoordinates for each residence. A guide to geocoding services and practical applications is provided at <u>http://geoservices.tamu.edu/Services/Geocode/OtherGeocoders/</u>, and geocoding details are discussed in Goldberg, D. W., & Cockburn, M. G. (2010). Improving geocode accuracy with candidate selection criteria. *Transactions in GIS*, *14*(S1), 129-146. http://onlinelibrary.wiley.com/doi/10.1111/j.1467-9671.2010.01211.x/abstract

The accuracy of geocoordinates may also be improved by using a geocode correction tool (Goldberg, D., Wilson, J., Knoblock, C., Ritz, B., & Cockburn M. [2008]. An effective and efficient approach for manually improving geocodes. *International Journal of Health Geographics*, *7*, 60-79).

Lived	Street/Crosstreets City, State, ZIP code (5-digit,			orchards?	Did you live close to the center or margin of town?
1a.	1b.	1c.	1d.	1e.	1f.
From:		[] on farm	[] city	[] ves	[] center
To:			[] private		

		no	well [ ] filte water [ ] bott water [ ] othe	led	[ ] no	[] margin
2a. From: To:		[] on farm [] no	2d. [] city [] priva well [] filte water [] bott water [] othe	ate ye ered :led	[ ] es [ ] no	2f. [] center [] margin
3a. From: To:		[] on farm [] no	3d. [] city [] priva well [] filte water [] bott water [] othe	ate ye ered :led	[ ] es [ ] no	3f. [] center [] margin
After the interview has been completed, enter the Were the geocoordinates						

geocoordinates for the residence.	verified?			
1g.	1h.			
latitude	1 [ ] yes-if yes, how?			
longitude	2 [ ] no			
[] not available, incomplete address				
2g.	2h.			
latitude	1 [ ] yes-if yes, how?			
longitude	2 [ ] no			
[] not available, incomplete address				
3g.	3h.			
latitude	1 [ ] yes-if yes, how?			
longitude	 2 [ ] no			
[] not available, incomplete address				

Protocol source: https://www.phenxtoolkit.org/protocols/view/60301