



Indiana 2020 Data Harvest

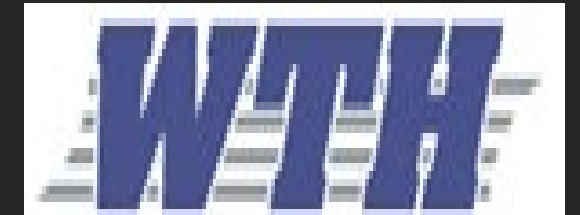


Agenda



Program Overview

Collaboration

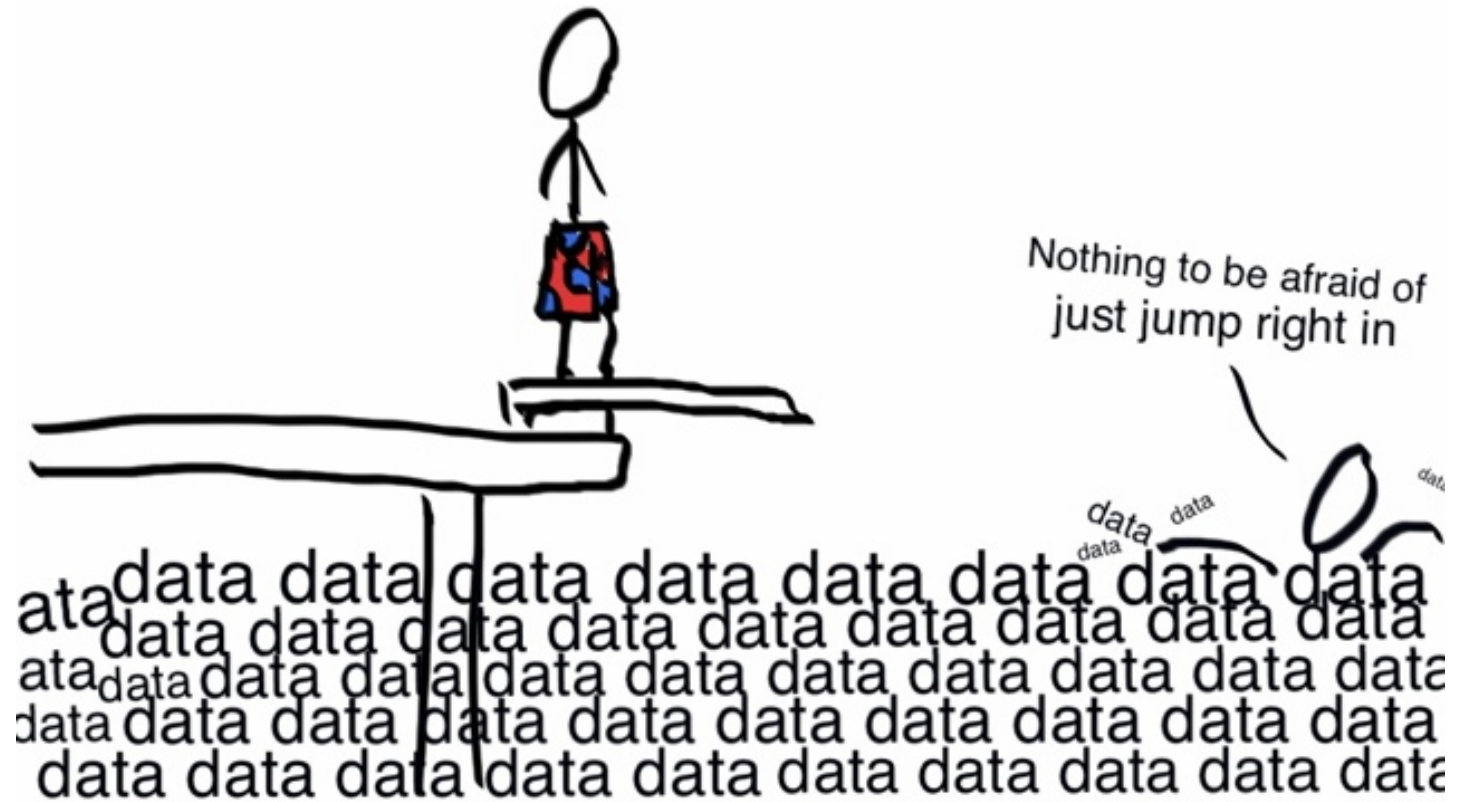


Results

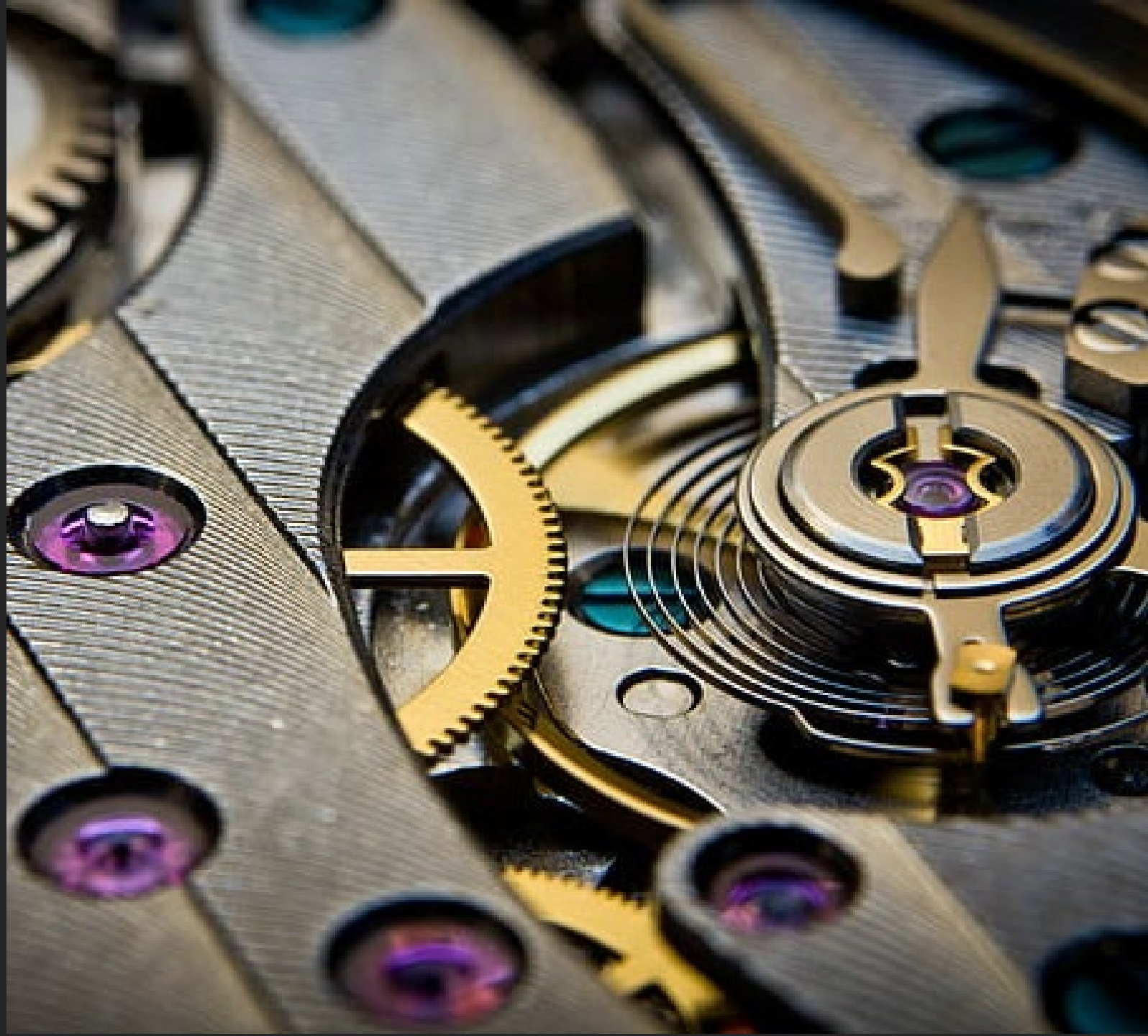
- 3.2 million address points
- 500,000 road segments
- 3.6 million parcels
- 5,000 boundaries

- New geocoder
- Fresh data layers

freshspectrum.com



How we did it



Data Request

- Requested data via email using county contact list
- Provided Survey123 form for county staff to tell us which layers they could provide
- Provided SharePoint link to upload data



With this email, we are kicking off the Indiana GIS data harvest for 2020 and we believe that you are the appropriate contact for this request. The data that we are requesting is crucial for county, regional, statewide, and national GIS activities and benefits fellow Hoosiers and others through maps, dashboards, analysis, and applications critical to Census, transportation planning, environmental management, and public health and safety, and others. Unfortunately, these data are out of date. We are therefore requesting your assistance to update these data. If you are not the correct contact person, please forward this email to that person and let us know.

As in previous years, we are asking you to provide address points, land parcels, road centerlines and government boundaries. A *preferred* data specification is included with this email. We are requesting that you adhere to these specifications **as much as you are able and willing**. We are also requesting, if you are able and willing, to provide us with a listing of the field names, if different from those in the specification, that you will be submitting for each data set. There are spaces in the specification spreadsheet for that information (names of layers and county names of fields).

We are extending the **deadline to September 23rd** so that you have time to review the preferred data specifications.

We have streamlined the data submission methods over previous years. We will be employing two methods, one for counties working with vendors and the other for counties that will be transmitting the data directly. If you are planning to submit directly (not through a vendor) please complete the short form located at <https://arcg.is/1yiyiy>. This will trigger an email from us with some easy to follow instructions.

This year, the Polis Center at IUPUI will be assisting the Geographic Information Office with this data harvesting effort. Please direct any questions to Jim Sparks at inshare@iupui.edu or 317-278-2433.

You can follow the progress of the data harvest effort here: [Indiana Data Harvest Dashboard](#).

We very much appreciate your participation this year as we have in years past!

Thank you,

Megan R.L. Compton
Indiana Geographic Information Officer

<https://www.in.gov/gis/datashare.htm>

Indiana Data Harvest - Submission Request

What is your name?*

What is your position at the county?*

What is your email address?*

What is your phone number?*

What is the county for which you are uploading data?*

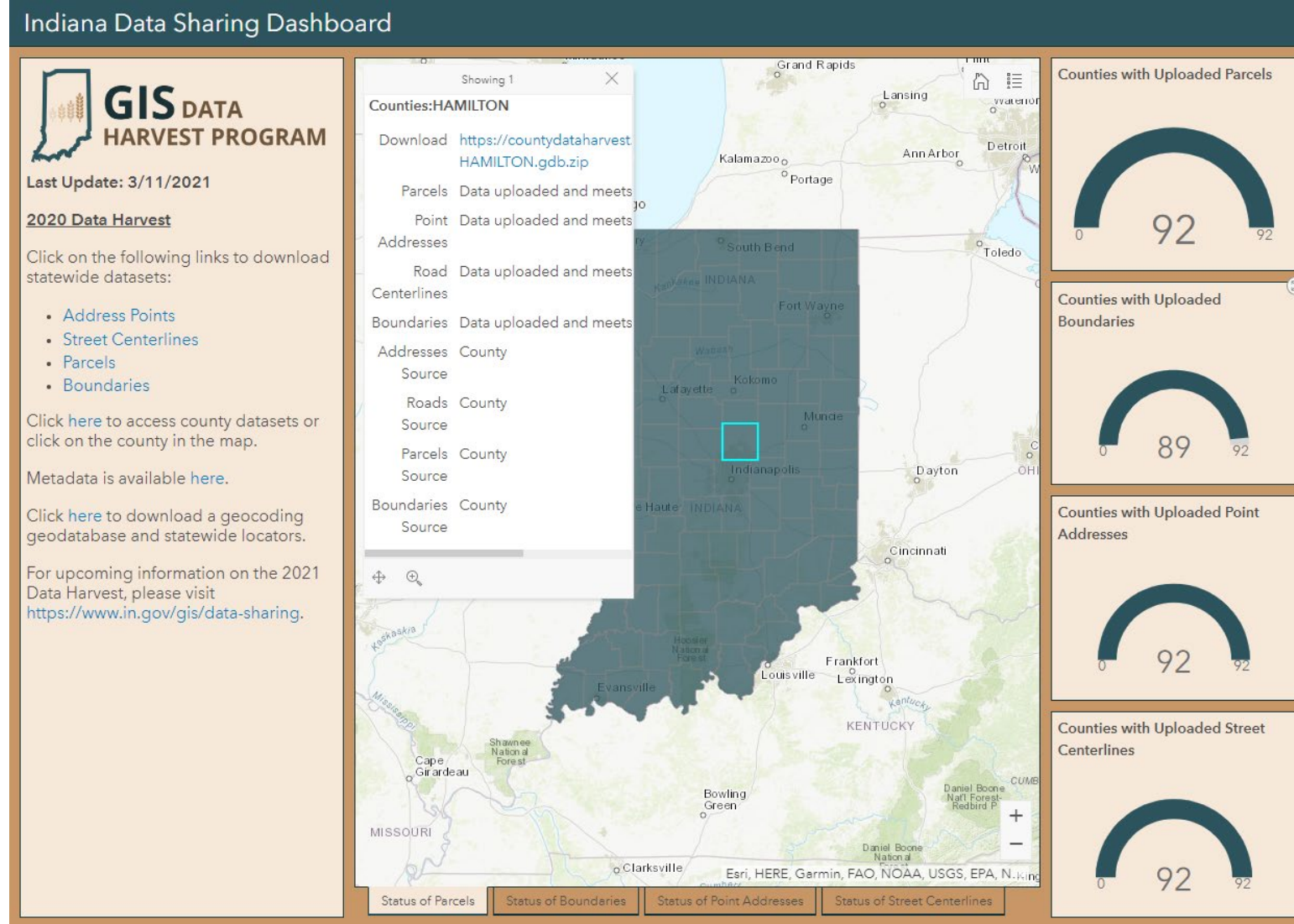
What layers are you planning to upload?*

 Address points Street Centerlines Parcels Boundaries

Submit

GIS Data Harvest Dashboard

- Url: <https://arcg.is/Xybj0>
- Regularly updated the status of each layer and county
- Includes layer source
- Includes links to final data, new geocoder, and metadata



Schema

Field Name	Field Alias	UDXF36587_point (Addresses)
FULL_ADDRESS	FULL_ADDRESS	House + Dir + Street
ADDRESS_NUMBER	ADDRESS_NUMBER	House
ADDRESS_PREFIX	ADDRESS_PREFIX	Dir
ADDRESS_NAME	ADDRESS_NAME	Street
ADDRESS_TYPE	ADDRESS_TYPE	
ADDRESS_SUFFIX	ADDRESS_SUFFIX	
ADDRESS_CITY	ADDRESS_CITY	Community
ADDRESS_ZIP	ADDRESS_ZIP	Zip_Code
UNITID	UNITID	Suffix
STATE_PARCEL_ID		
Placement		
PLACE_TYPE		
ELEVATION		

- DataHarvestTransformToolbox.pyt
- 0. Change Data Path
 - 0a. Get data paths
 - 1. Copy templates to county folder
 - 1a. Add rows to FieldMatching table
 - 1b. Load a county's data
 - 1b. Load data
 - 2. Populate SOURCE* fields
 - 3a. Create interim street fields
 - 3b. Extract street prefix
 - 3c. Extract street suffix
 - 3d. Remove the street suffix from the field name
 - 3e. Extract street type
 - 3f. Get Unique Values
 - 3g. Replace select values with Null
 - 3h. Replace select values with another value
 - 3i. Clean up the street name
 - 3j. Transfer street name fields from x_ to ADDRESS_
 - 3k. Delete the temporary x_* fields
 - 3l. Extract house number from address
 - 3m. Clean up street name, transfer data and delete fields

g x

Calculate Selection: Select By Attributes Zoom To Switch Clear Delete Copy

County	County	LayerIn	LayerOut	FieldIn	FieldOut	Default
Grant	18053	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18053-G...	fetype	ADDRESS_TYPE	<Null>
Grant	18053	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18053-G...	fedirs	ADDRESS_SUFFIX	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	ESN	NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	<Null>	TYPE	ESN Boundary
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Feature_Name	FULL_STREET_NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Feature_Name	FULL_STREET_NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	<Null>	TYPE	Township
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Feature_Name	NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	<Null>	TYPE	Voter District
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Feature_Name	NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	<Null>	TYPE	Incorporated Areas
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Feature_Name	NAME	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	House,Dir,Street	FULL_ADDRESS	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	House	ADDRESS_NUMBER	<Null>
Greene	18055	P:\1817 - Indiana Data Harvest\Data\2020\Input\...	P:\1817 - Indiana Data Harvest\Data\2020\Input\18055-G...	Dir	ADDRESS_PREFIX	<Null>

0 of 2,456 selected

Filters: [Icons]

Challenges



Matching new schema

Invalid values

Missing values

Inconsistent address fields

Missing boundaries

Edgematching

Local Unique Identifier

Address Point Data from County

street	BUTTERNUT ST.
dir	
community	
house	8022
suffix	
after_hour	
row_guid	
elec_util	
tx	
comment	
full_stree	8022 BUTTERNUT ST.



After Data Harvest

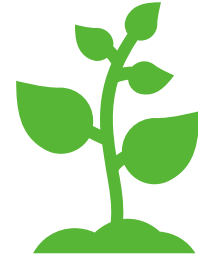
ADDRESS_NUMBER	8022
ADDRESS_PREFIX	<Null>
ADDRESS_NAME	BUTTERNUT
ADDRESS_TYPE	ST
ADDRESS_SUFFIX	<Null>
ADDRESS_CITY	<Null>
ADDRESS_ZIP	<Null>
UNITID	<Null>
STATE_PARCEL_ID	<Null>
PLACEMENT	<Null>
PLACE_TYPE	<Null>
ELEVATION	<Null>
COUNTY_FIPS	18017
COUNTY_ID	9
JOIN_STATE_PARCEL_ID	090117331002000001
DLGF_PROP_ADDRESS	8022 E BUTTERNUT ST
DLGF_PROP_ADDRESS_CITY	TWELVE MILE
DLGF_PROP_ADDRESS_ZIP	46988-0000
DLGF_PROP_CLASS_CODE	510
ESRI_ZIP	46988
ESRI_PONAME	TWELVE MILE



Collaboration with IGIC
workgroup



Tools for data
collaboration



2021 Harvest

What's Next



Data Harvest



Statewide
Participation



Data Standards



Data Filters



Two-way
sharing



Reliable and
Validated Data



The Roadmap

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INDIANA GEOGRAPHIC
INFORMATION OFFICE

