

**User's Guide and Codebook**  
**Michigan Public Policy Survey (MPPS)**

**Michigan Public Policy Survey Restricted Use Datasets:**  
**Fall 2013 Data**

**CENTER FOR LOCAL, STATE, AND URBAN POLICY (CLOSUP)**  
**FORD SCHOOL OF PUBLIC POLICY**  
**THE UNIVERSITY OF MICHIGAN**

## **ABOUT THE DATASET:**

Title: Michigan Public Policy Survey Restricted Use Datasets: Fall 2013 Data

Responses: 1,496 total surveys from 1,353 distinct local jurisdictions

Sample: census survey of 3,655 top elected and top appointed officials from all 1,856 Michigan counties, cities, villages, and townships

Field period: October 7 to December 17, 2013

Response rate: 73% by jurisdiction; 40% by individual respondent

Dataset Version: Version 2

Dataset Release Date: December 23, 2015

## **PROGRAM DESCRIPTION:**

The Michigan Public Policy Survey (MPPS) is a program of state-wide surveys of local government leaders in Michigan. The MPPS is administered online and via hard copy questionnaire and takes place twice each year, in spring and fall. Each wave investigates local officials' opinions and perspectives on a variety of important public policy issues. Respondents for the MPPS include county administrator and board chairs, mayors and city managers, village presidents, clerks, and managers, and township supervisors, clerks, and managers from every general-purpose unit of government across the state.

## **SURVEY WAVE CONTENT:**

The Fall 2013 MPPS wave focused on energy and environmental issues such as the Great Lakes, wind turbines, and hydraulic fracturing. A series of questions on the Detroit bankruptcy filing was also included.

## **WEIGHTS AND DATA ANALYSIS:**

The Fall 2013 dataset includes two separate weights—one for individual-level (`ind_wgt`) and one for jurisdiction-level (`juris_wgt`) analyses—that should be used to account for nonresponse at the individual and jurisdictional levels, respectively. The variable `samp_juris` can be used to select cases according to whether analysis is being done at the individual-level or jurisdiction-level.

**MISSING DATA:**

Missing data in the Fall 2013 dataset can reflect two distinct types of missing data: questions that a respondent chose to not answer (refused), and questions that were not asked due to skip patterns in the data (not applicable). Skip patterns are indicated where applicable in this codebook.

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## **CONTACT INFORMATION:**

The Michigan Public Policy Survey (MPPS) is administered by the Center for Local, State, and Urban Policy (CLOSUP) at the University of Michigan.

For the benefit of users of MPPS data, we have prepared this guide to the design, methods, and content of the Fall 2013 wave of the survey. Please address questions or comments to:

**Sarah Mills, Project Manager**

or

**Tom Ivacko, Center Administrator**

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## **HOW TO CITE MPPS DATA:**

When using data from the Michigan Public Policy Survey, please use the folder citation provided by ICPSR, including DOI.

Center for Local, State, and Urban Policy. Michigan Public Policy Survey Restricted Use Datasets: Fall 2013 Data. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2015-12-03. <http://doi.org/>

## DATA COLLECTION OVERVIEW:

### Sample:

The sample for the Fall 2013 MPPS included on average two officials from each of the local general purpose units of government (83 counties, 277 cities, 256 villages, and 1,240 townships) in the state of Michigan. The sample frame included, where the position existed and was not vacant, the top elected and top appointed official in each jurisdiction. For counties, this consisted of county administrators and board chairs; for cities, mayors and city managers; for villages, village presidents and managers. Townships are a special case in that, typically, their governing officials are all elected. Therefore, in townships, both the elected supervisors and the elected clerks were administered surveys, as well as the few appointed township managers.

### Sample frame:

	<i>Elected Officials</i>	<i>Appointed Officials</i>	<i>Total</i>
Counties (83)	87	58	145
Townships (1240)	2,441	39	2,480
Cities (277)	277	241	518
Villages (256)	354	158	512
<i>Total (1856)</i>	<i>3,159</i>	<i>496</i>	<i>3,655</i>

### Method:

The Fall 2013 MPPS was administered via two modes. For those officials for whom an email address could be identified, an email invitation was sent containing a url link to the survey instrument online. For those officials for whom no email address was available, hard copy questionnaires were mailed out in the week prior to the launch of the survey via USPS, scheduled for delivery during the first week of field period.

### Survey administration:

	<i>Electronically</i>	<i>Via hardcopy</i>	<i>Total</i>
Surveys sent	3,115	527	3,642
Responses in database	1,395	101	1,496

### Field dates, recontacts to non-respondents, and partial completes:

Respondents received initial email invitations and hard copy questionnaires during the week of October 7, 2013. Non-respondents with valid email addresses were recontacted each Monday of field period by email to urge them to participate. Respondents with invalid addresses were subsequently mailed hard copy questionnaires. Non-respondents who had been originally sent a hard copy questionnaire and for whom a fax number was available were sent another questionnaire by fax. Field period closed on December 17.



Partially-completed (“partials”) surveys captured by the online survey software are included in the dataset if respondents completed through Q6.

*Data anomalies:*

Known data anomalies are noted at the appropriate variable in the codebook below. If you notice possible undocumented errors in the dataset, we would appreciate an email to "closup-mpps@umich.edu" describing the problem so that we can research and address it.

## ISSUES OF RESPONDENT CONFIDENTIALITY:

The MPPS program pledges to all of its respondents that all survey answers will remain confidential, meaning that researchers will not link survey responses to individual respondents or jurisdictions in any publications or public analysis of the data. Thus, users of the MPPS datasets should only publish statistical summary information that does not permit the identification, either directly or inferentially, of any individual person, official position, or local jurisdiction.

In order to protect respondent confidentiality, CLOSUP made the following modifications to the dataset available for use by researchers:

- 1) Open-ended responses were extracted from the main datafile. Identifying information from open-ended responses was redacted (denoted in the data as [redacted]). These responses can be linked back to the main datafile using the variables: respondent\_id, ID.date, ID.start, ID.endDate, ID.end, and ID.time.
- 2) Certain identifying variables were removed from the dataset
  - Direct identifiers for jurisdiction such as FIPS codes, county names, and jurisdiction names
  - Direct identifiers for respondents, such as name and contact information (corresponding to survey questions Q33a, Q33b, Q33c)
  - Other information potentially identifying individual respondents, including , year of birth (corresponding to survey question q35), years in office (corresponding to survey question q36). Recoded versions of these variables are available.
- 3) The original population variables taken from US census data were removed/masked from the dataset. New categorical population variables were created for the different jurisdiction types: pop\_county, pop\_township, pop\_city, pop\_village. Additionally, a population density variable was added to the dataset.

Any intentional identification of a research subject (whether an individual or a jurisdiction) or unauthorized disclosure of his or her confidential information violates the promise of confidentiality given to the providers of the information. Therefore, users of data agree:

To use these datasets solely for research or statistical purposes and not for investigation of specific research subjects.

To make no use of the identity of any research subject discovered inadvertently, and to advise CLOSUP of any such discovery (closup-mpps@umich.edu).

## **Merging your data with MPPS Data**

CLOSUP recognizes that there is significant research value in being able to link external datasets to the MPPS data. However, to protect respondent and jurisdiction confidentiality, direct geographic identifiers are not available in the MPPS datasets. Users who are interested in merging their own geographically-keyed datasets to MPPS datasets should contact CLOSUP ([closup@umich.edu](mailto:closup@umich.edu)) to apply to have wave\_id added to the researcher's dataset, in order to enable links between datasets. CLOSUP will review all applications and determine whether providing the key would pose an unacceptable risk to confidentiality. If your application is approved, you will send your dataset to CLOSUP, the wave key will be merged onto the dataset and replace any existing geographic ID variables, and you can upload this new dataset to the VDE following openICPSR's policies.

## LIST OF VARIABLES:

<u>Name</u>	<u>Label</u>
respondent_id	Unique ID for each case
master_id	Longitudinal Jurisdiction ID
wave_id	Single-wave Jurisdiction ID
idcompleted	Completion status
source	Hardcopies/online completes/partial
idenddate	ID.endDate
idend	ID.end
idstart	ID.start
iddate	ID.date
idtime	ID.time
jtype	Jurisdiction Type
samp_juris	Identifies unique survey responses for each jurisdiction
snap_elec_app	Elected or appointed to position
snap_pos	Position held--numeric
q2	Great Lakes overall current condition
q3a	Great Lakes have significant impact on jurisdiction
q3b	Great Lakes are a valuable economic resource for Michigan
q3c	Great Lakes are a valuable economic resource for jurisdiction
q3d	Juris. policies & ops don't impact health of Great Lakes
q4a	Responsibility for protecting Great Lakes: Federal govts
q4b	Responsibility for protecting Great Lakes: State govts
q4c	Responsibility for protecting Great Lakes: Local govts
q4d	Responsibility for protecting Great Lakes: Juris.'s govt
q4e	Responsibility for protecting Great Lakes: Business & Industry
q4f	Responsibility for protecting Great Lakes: Individuals
q5a	Regulatory policies: Runoff from stormwater sewers & streets
q5b	Regulatory policies: Runoff from farms & agricultural sector
q5c	Regulatory policies: Waste water systems' overflow release
q5d	Regulatory policies: Septic system inspections & maintenance
q5e	Regulatory policies: Limit water diversion from Great Lakes
q6a	GL policies: Improve water quality even if higher taxes
q6b	GL policies: Phase out coal power plants
q6c	GL policies: Prevent construction on wetlands
q6d	GL policies: Reduce farmland & nature pave over
q6e	GL policies: Increase regional state coord.
q6f	GL policies: Increase local govt. coord.
q6g	GL policies: Increase cost, encourage cons. to use less wtr
q7a1	Small, individual-use turbines: Currently have
q7a2	Small, individual-use turbines: Efforts to Add/Expand
q7a3	Small, individual-use turbines: No, Neither
q7a4	Small, individual-use turbines: Don't Know
q7a_summary	Wind: Small, individual-use turbines: Summary
q7b1	Large, utility-scale in Juris.: Currently have
q7b2	Large, utility-scale in Juris.: Efforts to Add/Expand
q7b3	Large, utility-scale in Juris.: No, Neither

q7b4	Large, utility-scale in Juris.: Don't Know
q7b_summary	Wind: Large, utility-scale in Juris.: Summary
q7c1	Large, utility-scale in neighbor: Currently have
q7c2	Large, utility-scale in neighbor: Efforts to Add/Expand
q7c3	Large, utility-scale in neighbor: No, Neither
q7c4	Large, utility-scale in neighbor: Don't Know
q7c_summary	Wind: Large, utility-scale in neighbor: Summary
q7_any	Wind: All: Summary
q8	Any recent wind proposals that did not move forward?
q7_8_any	Wind: Any current activity or efforts in jurisdiction or neighbor
q9	Extent of jurisdiction's discussion on wind turbines
q10a	Wind turbine support/oppose: Juris. Council/Board
q10b	Wind turbine support/oppose: Jurisdiction's Citizens
q10c	Wind turbine support/oppose: Respondent as juris. official
q11a	Regulate wind turbines: Tax or other incentives
q11b	Regulate wind turbines: Local moratorium or ban
q11c	Regulate wind turbines: Local ordinance or zoning
q11d	Regulate wind turbines: Intergovernmental agreement
q12a	Affect use of turbines: Visual or noise impacts
q12b	Affect use of turbines: Road construction, use, damage, etc.
q12c	Affect use of turbines: Impact on property values
q12d	Affect use of turbines: Community organizations
q12e	Affect use of turbines: Business proposals
q12f	Affect use of turbines: Connect turbines to elect grid
q12g	Affect use of turbines: Local job creation and/or econ. dev.
q12h	Affect use of turbines: Revenue for land-owners
q12i	Affect use of turbines: Local property tax revenue
q12j	Affect use of turbines: Depreciation tables for wind turbines
q12k	Affect use of turbines: Preservation of farmland
q12l	Affect use of turbines: Wind speed & reliability
q12m	Affect use of turbines: Other
q12other	Affect use of turbines: Other-specify
q13	Additional issues regarding wind energy in jurisdiction
q14a	Authority for decisions regarding wind turbines: Federal govt
q14b	Authority for decisions regarding wind turbines: State govt
q14c	Authority for decisions regarding wind turbines: Local govt
q14d	Authority for decisions regarding wind turbines: Land-owners
q15a	Traditional wells: Currently active
q15b	Traditional wells: Now inactive
q15c	Traditional wells: No history
q15d	Traditional wells: Don't Know
q15_summary	Traditional wells: summary
q16	How familiar are you with hydraulic fracturing?
q17a1	Hydraulic fracturing in Juris.: Currently have
q17a2	Hydraulic fracturing in Juris.: Efforts to Add/Expand
q17a3	Hydraulic fracturing in Juris.: No, Neither
q17a4	Hydraulic fracturing in Juris.: Don't Know
q17a_summary	Hydraulic fracturing in Juris.: Summary
q17b1	Hydraulic fracturing in neighbor: Currently have

q17b2	Hydraulic fracturing in neighbor: Efforts to Add/Expand
q17b3	Hydraulic fracturing in neighbor: No, Neither
q17b4	Hydraulic fracturing in neighbor: Don't Know
q17b_summary	Hydraulic fracturing in neighbor: Summary
q17_any	Fracking: All: Summary
q18	Any recent fracking that did not move forward?
q17_18_any	Any current fracking activity or recent proposals in juris or neighbors?
q19	Extent of jurisdiction's discussion on fracking
q20a	Fracking support/opposition: Jurisdiction's Council/Board
q20b	Fracking support/opposition: Jurisdiction's Citizens
q20c	Fracking support/opposition: Respondent as juris. official
q21a	Efforts to regulate fracking: Tax or other incentives
q21b	Efforts to regulate fracking: Local moratorium and/or ban
q21c	Efforts to regulate fracking: Local ordinance and/or zoning
q21d	Efforts to regulate fracking: Intergovernmental agreement
q22a	Affect use of fracking: Local job creation and/or econ. dev.
q22b	Affect use of fracking: Lower energy prices
q22c	Affect use of fracking: Potential environmental damage
q22d	Affect use of fracking: Potential environmental benefits
q22e	Affect use of fracking: Potential risks to citizens' health
q22f	Affect use of fracking: Potential risks to water resources
q22g	Affect use of fracking: Impact on property values
q22h	Affect use of fracking: Community organizations
q22i	Affect use of fracking: Business proposals
q22j	Affect use of fracking: Federal or state regulations
q22k	Affect use of fracking: Revenue for land-owners
q22l	Affect use of fracking: Local property tax revenue
q22m	Affect use of fracking: Preservation of farmland
q22n	Affect use of fracking: Availability of shale gas deposits
q22o	Affect use of fracking: Other
q22other	Affect use of fracking: Other-specify
q23	Additional issues regarding hydraulic fracturing in juris.
q24a	Authority for decisions regarding fracking: Federal govt
q24b	Authority for decisions regarding fracking: State governments
q24c	Authority for decisions regarding fracking: Local governments
q24d	Authority for decisions regarding fracking: Land-owners
q25a	Energy supply actions: Increase use of nuclear power
q25b	Energy supply actions: Increase use of hydroelectric power
q25c	Energy supply actions: Increase use of solar power
q25d	Energy supply actions: Increase production & use of biomass and/or biofuels
q25e	Energy supply actions: Increase regulation of oil & gas pipelines statewide
q25f	Energy supply actions: Increase H-V fracking
q25g	Energy supply actions: Offshore oil & gas drilling in GLs
q25h	Energy supply actions: Increase use of wind power on land
q25i	Energy supply actions: Increase offshore wind power in GLs
q25j	Energy supply actions: Mandate renewable energy, state law

q25k	Energy supply actions: Mandate energy efficiency, state law
q26	Extent jurisdiction engages in sustainability planning
q27	Jurisdiction's approach to sustainability planning
q28	Promoting environmental sustainability is important of local govt. leadership
q29	How closely are you following Detroit's bankruptcy filing?
q30a	Detroit: Bankruptcy filing was right thing to do
q30b	Detroit: Bankruptcy will help Detroit restructure & cut costs
q30c	Detroit: Bankruptcy won't result in better policy or managment
q30d	Detroit: Filing will make bankruptcies more likely among other MI local govts.
q30e	Detroit: State of MI should provide new financial assistance
q30f	Detroit: Fed. govt. should provide new financial assistance
q30g	Detroit: Det.'s fisc. health is important to MI fisc. health
q31a	Detroit bankruptcy: Michigan's reputation
q31b	Detroit bankruptcy: Conf. of MI citizens in state's future
q31c	Detroit bankruptcy: MI's ability to attract tourism
q31d	Detroit bankruptcy: MI local govts' ability to attract/retain employees
q31e	Detroit bankruptcy: Local govt. home rule & discretion under state law
q31f	Detroit bankruptcy: MI local govts' cost of borrowing
q31g	Detroit bankruptcy: Juris.'s overall fiscal health
q32a	Pursue or prevent: Cuts in repayments to bondholders
q32b	Pursue or prevent: Cuts to pensions of current retirees
q32c	Pursue or prevent: Cuts to fringe benefits of curr. retirees
q32d	Pursue or prevent: Cuts to compensation for current employees
q32e	Pursue or prevent: Cuts to/privatization of public services
q32f	Pursue or prevent: Increase service sharing with other govts
q32g	Pursue or prevent: Sell some jurisdiction assets
q32h	Pursue or prevent: Raise local revenue
q32i	Pursue or prevent: Financial assistance from the state govt
q32j	Pursue or prevent: Financial assistance from the federal govt
q34	Gender
age_category	Respondent Age
tenure	Respondent's time in office
q37	Are you of Spanish, Hispanic, or Latino descent
q38a	Race: White
q38b	Race: Black or African American
q38c	Race: American Indian or Alaskan Native
q38d	Race: Native Hawaiian or other Pacific Islander
q38e	Race: Asian
q38f	Race: Multiracial
q38g	Race: Other
q38h	Race: Don't Know
q39	Highest level of education
q40	Political affiliation
q40other	Political affiliation: Something else-specify
q41	Strength of political affiliation

q42	As an Independent, which party are you closer to?
q43	Date hardcopy received
partyid	7-point partisanship scale
threeparty	3-point partisanship scale
coastal_mi_groups	Groupings by distance from coast
region	MI regions
juris_rr	Jurisdiction-level Response Rate
juris_wgt	Jurisdiction-level Weight
ind_rr	Individual-level Response Rate
ind_wgt	Individual-level Weight
pop_density	Population Density
pop_township	Population Category: Township
pop_city	Population Category: City
pop_village	Population Category: Village
pop_county	Population Category: County



## FULL VARIABLE TEXT AND FREQUENCIES:

-----  
respondent\_id

Unique ID for each case  
-----

```

                type:  numeric (int)

                range:  [1,1511]                units:  1
unique values:  1,496                missing .:  0/1,496

                mean:   757.037
                std. dev: 437.078

percentiles:           10%           25%           50%           75%           90%
                    150           377.5           758.5           1135.5           1361
```

CODEBOOK NOTE: respondent\_id is a unique identifier for each MPPS respondent. It varies between datasets, and cannot be used to link datasets from multiple waves.

-----  
master\_id

Longitudinal Jurisdiction ID  
-----

```

                type:  numeric (int)

                range:  [1,1999]                units:  1
unique values:  1,353                missing .:  0/1,496

                mean:   1003.24
                std. dev: 580.314

percentiles:           10%           25%           50%           75%           90%
                    196           500.5           1004           1520           1797
```

CODEBOOK NOTE: master\_id is an anonymized jurisdiction-level identifier that allows datasets to be linked across multiple waves of the MPPS at the jurisdiction level. Datasets cannot be linked at the individual respondent level. Users should be aware that master\_id is linked to a unique combination of fips code and jurisdiction type, so when a jurisdiction type changes (for example, when a village incorporates into a city), the master\_id for that jurisdiction also changes.

-----  
wave\_id

Single-wave Jurisdiction ID  
-----

```

                type:  string (str7)

unique values:  1,353                missing "":  0/1,496
```

CODEBOOK NOTE: wave\_id is an anonymized jurisdiction-level identifier which can be used to link external datafiles with geographic ID's to MPPS datasets. Unlike

master\_id, wave\_id is randomized for every wave of the MPPS, so it does not allow datasets to be linked across years. CLOSUP recognizes that there is significant research value in being able to link external datasets to the MPPS data. However, to protect respondent and jurisdiction confidentiality, direct geographic identifiers are not available in the MPPS datasets. Users who are interested in merging their own geographically-keyed datasets to MPPS datasets should contact CLOSUP ([closup@umich.edu](mailto:closup@umich.edu)) to apply to have wave\_id added to the researcher's dataset, in order to enable links between datasets.

-----  
idcompleted  
Completion status  
-----

```

                type:  numeric (byte)
                label:  completepart

                range:  [0,1]                      units:  1
unique values:  2                               missing .:  0/1,496

                tabulation:  Freq.   Numeric  Label
                               98         0  Partial
                               1,398     1  Complete

```

CODEBOOK NOTE: The Fall 2013 database includes partial surveys by respondents who answered at least through Q6 on the survey instrument.

-----  
source  
Hardcopies/online completes/partials  
-----

```

                type:  numeric (byte)
                label:  source3

                range:  [1,3]                      units:  1
unique values:  3                               missing .:  0/1,496

                tabulation:  Freq.   Numeric  Label
                               101         1  Hard Copy
                               1,297     2  Online Complete
                               98         3  Online Partial

```

-----  
idstart  
ID.start  
-----

```

                type:  string (str8)

unique values:  1,470                               missing "":  0/1,496

```

CODEBOOK NOTE: Variable indicates time at which respondent started survey online

-----  
idend  
ID.end  
-----

type: string (str8)  
unique values: 1,454 missing "": 0/1,496

CODEBOOK NOTE: Variable indicates time at which respondent completed survey online or at which an unfinished "partial" response was closed.

-----  
idtime  
ID.time  
-----

type: numeric (float)  
range: [3.15,24382.58] units: .01  
unique values: 1,147 missing .: 0/1,496  
mean: 799.902  
std. dev: 3518.64  
percentiles: 10% 25% 50% 75% 90%  
11.37 15.925 22.18 32.525 78.05

CODEBOOK NOTE: Variable indicates length of time (in minutes) respondent took to complete survey online

-----  
iddate  
ID.date  
-----

type: string (str10)  
unique values: 55 missing "": 0/1,496

CODEBOOK NOTE: Variable indicates date on which respondent started survey online.

-----  
idenddate  
ID.endDate  
-----

type: string (str10)  
unique values: 56 missing "": 0/1,496

CODEBOOK NOTE: Variable indicates date on which respondent submitted survey online or

on which an unfinished ``partial'' response was closed.

---

jtype  
Jurisdiction Type

---

type: numeric (byte)  
label: jurisdiction

range: [1,4] units: 1  
unique values: 4 missing .: 0/1,496

tabulation:	Freq.	Numeric	Label
	61	1	County
	1,020	2	Township
	225	3	City
	190	4	Village

---

samp\_juris  
Identifies unique survey responses for each jurisdiction

---

type: numeric (byte)

range: [0,1] units: 1  
unique values: 2 missing .: 0/1,496

tabulation:	Freq.	Value
	143	0
	1,353	1

CODEBOOK NOTE: Variable designates one survey response as representative for each individual jurisdiction:

- If there is a single response from the jurisdiction, samp\_juris = 1
- If there are two (or more) responses from the jurisdiction where only one is complete (either hardcopy or online), the complete response is coded as samp\_juris = 1, the other(s) coded as samp\_juris = 0
- If two (or more) complete responses from jurisdiction, the one from the appointed official (or clerk, if it's a township) is coded as samp\_juris = 1, the other(s) coded as samp\_juris = 0
- If two (or more) complete responses from jurisdiction but none are appointed (or clerk), then the top elected (or supervisor, if it's a township) is coded as samp\_juris = 1, the other(s) coded as samp\_juris = 0

Analyses appearing in MPPS reports published by CLOSUP are based on samp\_juris=1 cases only, unless otherwise specified.

---

snap\_elec\_app

Elected or appointed to position

---

type: numeric (byte)  
label: elec\_app

range: [1,2] units: 1  
unique values: 2 missing .: 1/1,496

tabulation: Freq. Numeric Label  
1,220 1 Elected  
275 2 Appointed  
1 .

CODEBOOK NOTE: Variable designates whether respondent is an elected or appointed official. Elected officials include Chairs of County Commission, County Executives, Mayors, Village Presidents, Village Clerks, Township Supervisors, Township Clerks, self-identified "Other" elected; Appointed officials include County Administrators/Controllers, City Administrators/Managers/Superintendents, Village Managers/Superintendents, Village Clerks, Township Managers/Superintendents, self-identified "Other" appointed.

---

snap\_pos  
Position held--numeric

---

type: numeric (byte)

range: [1,8] units: 1  
unique values: 8 missing .: 3/1,496

tabulation: Freq. Value  
53 1  
132 2  
139 3  
107 4  
54 5  
480 6  
518 7  
10 8  
3 .

CODEBOOK NOTE: Variable designates what position respondent holds.

- Elected officials:
- 1 - Chair of County Commission
  - 2 - County Executive
  - 3 - Mayor
  - 4 - Village President
  - 5 - Village Clerk
  - 6 - Township Supervisor
  - 7 - Township Clerk
  - 8 - Other

Appointed officials:

- 1 - County Administrator/Controller
- 2 - City Administrator/Manager/Superintendent
- 3 - Village Manager/Superintendent
- 4 - Village Clerk
- 5 - Township Administrator/Manager
- 6 - Other

---

q2

Great Lakes overall current condition

---

QUESTIONNAIRE TEXT: First, thinking about the Great Lakes overall, would you rate their current condition as excellent, good, fair, poor, or very poor?

type: numeric (byte)  
label: rating

range: [1,6] units: 1  
unique values: 6 missing .: 7/1,496

tabulation:	Freq.	Numeric	Label
	59	1	Excellent
	797	2	Good
	489	3	Fair
	59	4	Poor
	7	5	Very Poor
	78	6	Don't Know
	7	.	

---

q3a

Great Lakes have significant impact on jurisdiction

---

QUESTIONNAIRE TEXT: To what extent do you agree or disagree the following general statement about the Great Lakes? The Great Lakes have a significant impact on my jurisdiction.

type: numeric (byte)  
label: agree\_disagree2

range: [1,5] units: 1  
unique values: 5 missing .: 23/1,496

tabulation:	Freq.	Numeric	Label
	383	1	Strongly Agree
	571	2	Somewhat Agree
	274	3	Somewhat Disagree
	166	4	Strongly Disagree
	79	5	Don't Know
	23	.	

---

q3b

Great Lakes are a valuable economic resource for Michigan

---

QUESTIONNAIRE TEXT: To what extent do you agree or disagree the following general statement about the Great Lakes? The Great Lakes are a valuable economic resource for Michigan.

```
      type: numeric (byte)
      label: agree_disagree2

      range: [1,5]                      units: 1
unique values: 5                        missing .: 12/1,496
```

tabulation:	Freq.	Numeric	Label
	1,324	1	Strongly Agree
	143	2	Somewhat Agree
	7	3	Somewhat Disagree
	2	4	Strongly Disagree
	8	5	Don't Know
	12	.	

---

q3c

Great Lakes are a valuable economic resource for jurisdiction

---

QUESTIONNAIRE TEXT: To what extent do you agree or disagree the following general statement about the Great Lakes? The Great Lakes are a valuable economic resource for my jurisdiction.

```
      type: numeric (byte)
      label: agree_disagree2

      range: [1,5]                      units: 1
unique values: 5                        missing .: 28/1,496
```

tabulation:	Freq.	Numeric	Label
	308	1	Strongly Agree
	552	2	Somewhat Agree
	328	3	Somewhat Disagree
	195	4	Strongly Disagree
	85	5	Don't Know
	28	.	

---

q3d

Jurisdiction policies & operations do NOT impact health of Great Lakes

---

QUESTIONNAIRE TEXT: To what extent do you agree or disagree the following general statement about the Great Lakes? My jurisdiction's policies and operations do not impact the health of the Great Lakes.

```
      type: numeric (byte)
      label: agree_disagree2
```

range: [1,5] units: 1  
unique values: 5 missing .: 23/1,496

tabulation:	Freq.	Numeric	Label
	412	1	Strongly Agree
	473	2	Somewhat Agree
	301	3	Somewhat Disagree
	212	4	Strongly Disagree
	75	5	Don't Know
	23	.	

-----  
q4a

Level of responsibility for protecting Great Lakes: Federal governments  
-----

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. Federal governments (The United States and Canada).

type: numeric (byte)  
label: responsibility

range: [1,4] units: 1  
unique values: 4 missing .: 19/1,496

tabulation:	Freq.	Numeric	Label
	974	1	A Great Deal of Responsibility
	419	2	Some Responsibility
	62	3	No Responsibility
	22	4	Don't Know
	19	.	

-----  
q4b

Level of responsibility for protecting Great Lakes: State governments  
-----

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. State governments (Michigan, other states, and Canadian provinces).

type: numeric (byte)  
label: responsibility

range: [1,4] units: 1  
unique values: 4 missing .: 15/1,496

tabulation:	Freq.	Numeric	Label
	1,328	1	A Great Deal of Responsibility
	137	2	Some Responsibility
	4	3	No Responsibility
	12	4	Don't Know



---

q4c

Level of responsibility for protecting Great Lakes: Local governments

---

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. Local governments.

```

      type: numeric (byte)
      label: responsibility

      range: [1,4]
unique values: 4
                                units: 1
                                missing .: 34/1,496

```

tabulation:	Freq.	Numeric	Label
	439	1	A Great Deal of Responsibility
	911	2	Some Responsibility
	78	3	No Responsibility
	34	4	Don't Know
	34	.	.

---

q4d

Level of responsibility for protecting Great Lakes: Jurisdiction's government

---

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. Your jurisdiction's government in particular.

```

      type: numeric (byte)
      label: responsibility

      range: [1,4]
unique values: 4
                                units: 1
                                missing .: 26/1,496

```

tabulation:	Freq.	Numeric	Label
	217	1	A Great Deal of Responsibility
	775	2	Some Responsibility
	393	3	No Responsibility
	85	4	Don't Know
	26	.	.

---

q4e

Level of responsibility for protecting Great Lakes: Businesses & Industries

---

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. Businesses and industries.

```

      type: numeric (byte)
      label: responsibility

      range: [1,4]
unique values: 4
                                units: 1
                                missing .: 18/1,496

```

```

tabulation: Freq.   Numeric  Label
              831       1   A Great Deal of Responsibility
              585       2   Some Responsibility
               39       3   No Responsibility
               23       4   Don't Know
               18       .

```

-----

q4f

Level of responsibility for protecting Great Lakes: Individuals

-----

QUESTIONNAIRE TEXT: For the following entities, please indicate whether you think they should have a great deal of responsibility, some responsibility, or no responsibility for taking actions to protect the Great Lakes. Individual citizens.

```

      type: numeric (byte)
      label: responsibility

      range: [1,4]
unique values: 4
                                units: 1
                                missing .: 31/1,496

```

```

tabulation: Freq.   Numeric  Label
              512       1   A Great Deal of Responsibility
              834       2   Some Responsibility
               80       3   No Responsibility
               39       4   Don't Know
               31       .

```

-----

q5a

Regulatory policies: Runoff from stormwater sewers & streets

-----

QUESTIONNAIRE TEXT: In general, to what extent do you believe the following types of regulatory policies should be strengthened or eased? Regulations on runoff from stormwater sewers and streets.

```

      type: numeric (byte)
      label: regulations

      range: [1,6]
unique values: 6
                                units: 1
                                missing .: 28/1,496

```

```

tabulation: Freq.   Numeric  Label
              399       1   Significantly Strengthened
              573       2   Somewhat Strengthened
              319       3   Unchanged
               25       4   Somewhat Eased

```

```

          5          5 Significantly Eased
        147          6 Don't Know
          28          .

```

-----  
q5b

Regulatory policies: Runoff from farms & agricultural sector  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you believe the following types of regulatory policies should be strengthened or eased? Regulations on runoff from farms and the agricultural sector.

```

      type: numeric (byte)
      label: regulations

```

```

      range: [1,6]          units: 1
unique values: 6          missing .: 31/1,496

```

```

tabulation:  Freq.  Numeric  Label
              467      1  Significantly Strengthened
              578      2  Somewhat Strengthened
              249      3  Unchanged
               40      4  Somewhat Eased
                8      5  Significantly Eased
              123      6  Don't Know
               31      .

```

-----  
q5c

Regulatory policies: Waste water systems' overflow release  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you believe the following types of regulatory policies should be strengthened or eased? Regulations on waste water systems' overflow release.

```

      type: numeric (byte)
      label: regulations

```

```

      range: [1,6]          units: 1
unique values: 6          missing .: 34/1,496

```

```

tabulation:  Freq.  Numeric  Label
              621      1  Significantly Strengthened
              473      2  Somewhat Strengthened
              216      3  Unchanged
               21      4  Somewhat Eased
                2      5  Significantly Eased
              129      6  Don't Know
               34      .

```

-----  
q5d

Regulatory policies: Septic system inspections & maintenance  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you believe the following types of regulatory policies should be strengthened or eased? Regulations on septic system inspections and maintenance.

```
      type: numeric (byte)
      label: regulations

      range: [1,6]
unique values: 6
                                units: 1
                                missing .: 35/1,496
```

```
tabulation:  Freq.  Numeric  Label
              455      1  Significantly Strengthened
              530      2  Somewhat Strengthened
              310      3  Unchanged
               30      4  Somewhat Eased
               8       5  Significantly Eased
              128      6  Don't Know
               35      .
```

---

q5e

Regulatory policies: Limit water diversion from Great Lakes

---

QUESTIONNAIRE TEXT: In general, to what extent do you believe the following types of regulatory policies should be strengthened or eased? Regulations to limit water diversion from the Great Lakes.

```
      type: numeric (byte)
      label: regulations

      range: [1,6]
unique values: 6
                                units: 1
                                missing .: 31/1,496
```

```
tabulation:  Freq.  Numeric  Label
              937      1  Significantly Strengthened
              312      2  Somewhat Strengthened
               92      3  Unchanged
                6      4  Somewhat Eased
                2      5  Significantly Eased
              116      6  Don't Know
               31      .
```

---

q6a

GL policies: Improve water quality even if higher taxes

---

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Increase efforts to improve Great Lakes water quality, even if it requires higher taxes.

```
      type: numeric (byte)
      label: support_oppose2
```

range: [1,5] units: 1  
unique values: 5 missing .: 31/1,496

tabulation:	Freq.	Numeric	Label
	276	1	Strongly Support
	712	2	Somewhat Support
	295	3	Somewhat Oppose
	98	4	Strongly Oppose
	84	5	Don't Know
	31	.	

-----  
q6b

GL policies: Phase out coal power plants even if electric costs increase  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Phase out coal-fired power plants to reduce mercury emissions in the Great Lakes region, even if the cost of electricity increases.

type: numeric (byte)  
label: support\_oppose2

range: [1,5] units: 1  
unique values: 5 missing .: 36/1,496

tabulation:	Freq.	Numeric	Label
	176	1	Strongly Support
	486	2	Somewhat Support
	418	3	Somewhat Oppose
	220	4	Strongly Oppose
	160	5	Don't Know
	36	.	

-----  
q6c

GL policies: Prevent construction on wetlands even if limits econ. dev.  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Prevent new construction on wetlands, even if it limits economic development.

type: numeric (byte)  
label: support\_oppose2

range: [1,5] units: 1  
unique values: 5 missing .: 34/1,496

tabulation:	Freq.	Numeric	Label
	308	1	Strongly Support
	526	2	Somewhat Support
	404	3	Somewhat Oppose
	123	4	Strongly Oppose
	101	5	Don't Know

-----  
q6d

GL policies: Reduce farmland & nature pave over even if limit econ. dev.  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Reduce the rate at which farmland or other natural areas are being paved over, even if it limits economic development.

```

      type: numeric (byte)
      label: support_oppose2

      range: [1,5]
unique values: 5
                                units: 1
                                missing .: 46/1,496

```

tabulation:	Freq.	Numeric	Label
	375	1	Strongly Support
	586	2	Somewhat Support
	285	3	Somewhat Oppose
	87	4	Strongly Oppose
	117	5	Don't Know
	46	.	

-----  
q6e

GL policies: Increase regional state coord. even if MI loses power  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Increase coordination among regional states on Great Lakes management, even if it requires giving up some of Michigan's decision-making power.

```

      type: numeric (byte)
      label: support_oppose2

      range: [1,5]
unique values: 5
                                units: 1
                                missing .: 33/1,496

```

tabulation:	Freq.	Numeric	Label
	199	1	Strongly Support
	592	2	Somewhat Support
	376	3	Somewhat Oppose
	179	4	Strongly Oppose
	117	5	Don't Know
	33	.	

-----  
q6f

GL policies: Increase local govt. coord. even if your Juris. loses power  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Increase coordination and role among local governments on Great Lakes management, even if it requires giving up some of your jurisdiction's decision-making power.

```
type: numeric (byte)
label: support_oppose2

range: [1,5]
unique values: 5

units: 1
missing .: 47/1,496
```

tabulation:	Freq.	Numeric	Label
	178	1	Strongly Support
	623	2	Somewhat Support
	316	3	Somewhat Oppose
	153	4	Strongly Oppose
	179	5	Don't Know
	47	.	

-----  
q6g

GL policies: Increase cost to encourage consumers to use less water  
-----

QUESTIONNAIRE TEXT: In general, to what extent do you support or oppose the following possible policies or actions related to the Great Lakes? Increase the cost of water for households and businesses to encourage consumers to use less water.

```
type: numeric (byte)
label: support_oppose2

range: [1,5]
unique values: 5

units: 1
missing .: 35/1,496
```

tabulation:	Freq.	Numeric	Label
	57	1	Strongly Support
	248	2	Somewhat Support
	563	3	Somewhat Oppose
	465	4	Strongly Oppose
	128	5	Don't Know
	35	.	

-----  
q7a1

Small, individual-use turbines: Currently have  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Small, individual-use wind turbines within your jurisdiction: Currently have these kinds of turbines.

```
type: numeric (byte)
label: selected
```

range: [0,1] units: 1  
unique values: 2 missing .: 25/1,496

tabulation:	Freq.	Numeric	Label
	1,195	0	Not Selected
	276	1	Selected
	25	.	

-----  
q7a2

Small, individual-use turbines: Efforts to Add/Expand  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Small, individual-use wind turbines within your jurisdiction: Efforts to add/expand these kinds of turbines.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 25/1,496

tabulation:	Freq.	Numeric	Label
	1,369	0	Not Selected
	102	1	Selected
	25	.	

-----  
q7a3

Small, individual-use turbines: No, Neither  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Small, individual-use wind turbines within your jurisdiction: No, Neither.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 25/1,496

tabulation:	Freq.	Numeric	Label
	536	0	Not Selected
	935	1	Selected
	25	.	



-----  
q7a4  
Small, individual-use turbines: Don't Know  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Small, individual-use wind turbines within your jurisdiction: Don't Know.

```
      type: numeric (byte)
      label: selected

      range: [0,1]                units: 1
unique values: 2                missing .: 25/1,496

      tabulation: Freq.  Numeric  Label
                  1,311      0    Not Selected
                  160        1    Selected
                  25         .
```

-----  
q7a\_summary  
Wind: Small, individual-use turbines: Summary  
-----

```
      type: numeric (byte)
      label: q7_summary

      range: [1,3]                units: 1
unique values: 3                missing .: 25/1,496

      tabulation: Freq.  Numeric  Label
                  376      1    Have or Efforts
                  935      2    Neither
                  160      3    Don't Know
                  25         .
```

CODEBOOK NOTE: q7a\_summary is a calculated variable indicating whether a jurisdiction either has small, individual-use turbines or has efforts to add/expand these kinds of turbines. q7a\_summary=1 if q7a1=1 or q7a2=1, q7a\_summary=2 if q7a3=1, and q7a\_summary=3 if q7a4=1.

-----  
q7b1  
Large, utility-scale in Juris.: Currently have  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines within your jurisdiction: Currently have these kinds of turbines.

```

      type: numeric (byte)
      label: selected

      range: [0,1]
      unique values: 2

      units: 1
      missing .: 27/1,496

```

```

tabulation: Freq.   Numeric  Label
             1,420      0  Not Selected
              49       1  Selected
              27       .

```

q7b2

Large, utility-scale in Juris.: Efforts to Add/Expand

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines within your jurisdiction: Efforts to add/expand these kinds of turbines.

```

      type: numeric (byte)
      label: selected

      range: [0,1]
      unique values: 2

      units: 1
      missing .: 27/1,496

```

```

tabulation: Freq.   Numeric  Label
             1,362      0  Not Selected
              107       1  Selected
              27       .

```

q7b3

Large, utility-scale in Juris.: No, Neither

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines within your jurisdiction: No, Neither.

```

      type: numeric (byte)
      label: selected

      range: [0,1]
      unique values: 2

      units: 1
      missing .: 27/1,496

```

```

tabulation: Freq.   Numeric  Label
             230      0  Not Selected

```

1,239 1 Selected  
27 .

-----  
q7b4

Large, utility-scale in Juris.: Don't Know  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines within your jurisdiction: Don't Know.

type: numeric (byte)  
label: selected  
range: [0,1] units: 1  
unique values: 2 missing : 27/1,496  
tabulation: Freq. Numeric Label  
1,392 0 Not Selected  
77 1 Selected  
27 .

-----  
q7b\_summary

Wind: Large, utility-scale in Juris.: Summary  
-----

type: numeric (byte)  
label: q7\_summary  
range: [1,3] units: 1  
unique values: 3 missing : 27/1,496  
tabulation: Freq. Numeric Label  
153 1 Have or Efforts  
1,239 2 Neither  
77 3 Don't Know  
27 .

CODEBOOK NOTE: q7b\_summary is a calculated variable indicating whether a jurisdiction either has large, utility-scale turbines or has efforts to add/expand these kinds of turbines. q7b\_summary=1 if q7b1=1 or q7b2=1, q7b\_summary=2 if q7b3=1, and q7b\_summary=3 if q7b4=1.

-----  
q7c1

Large, utility-scale in neighbor: Currently have  
-----

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the

installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines in neighboring jurisdictions that may impact your jurisdiction: Currently have these kinds of turbines: Currently have these kinds of turbines.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 27/1,496

tabulation:	Freq.	Numeric	Label
	1,331	0	Not Selected
	138	1	Selected
	27	.	

---

q7c2

Large, utility-scale in neighbor: Efforts to Add/Expand

---

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines in neighboring jurisdictions that may impact your jurisdiction: Efforts to add/expand these kinds of turbines.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 27/1,496

tabulation:	Freq.	Numeric	Label
	1,350	0	Not Selected
	119	1	Selected
	27	.	

---

q7c3

Large, utility-scale in neighbor: No, Neither

---

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines in neighboring jurisdictions that may impact your jurisdiction: No, Neither.

type: numeric (byte)

label: selected  
range: [0,1] units: 1  
unique values: 2 missing .: 27/1,496

tabulation:	Freq.	Numeric	Label
	416	0	Not Selected
	1,053	1	Selected
	27	.	

---

q7c4  
Large, utility-scale in neighbor: Don't Know

---

QUESTIONNAIRE TEXT: Wind energy is becoming more common in Michigan, including the use of small wind turbines for individual homes or businesses as well as the installation of larger, utility-scale turbines, and wind farms with numerous turbines. As far as you know, in your area, are there currently any of the following kinds of wind turbines and/or efforts to add or expand them? Larger, utility-scale wind turbines in neighboring jurisdictions that may impact your jurisdiction: Don't Know.

type: numeric (byte)  
label: selected  
range: [0,1] units: 1  
unique values: 2 missing .: 27/1,496

tabulation:	Freq.	Numeric	Label
	1,302	0	Not Selected
	167	1	Selected
	27	.	

---

q7c\_summary  
Wind: Large, utility-scale in neighbor: Summary

---

type: numeric (byte)  
label: q7\_summary  
range: [1,3] units: 1  
unique values: 3 missing .: 27/1,496

tabulation:	Freq.	Numeric	Label
	249	1	Have or Efforts
	1,053	2	Neither
	167	3	Don't Know
	27	.	

CODEBOOK NOTE: q7c\_summary is a calculated variable indicating whether a jurisdiction has a neighbor that either has large, utility-scale turbines or has efforts to add/expand these kinds of turbines. q7c\_summary=1 if q7c1=1 or q7c2=1, q7c\_summary=2 if q7c3=1, and q7c\_summary=3 if q7c4=1.

-----  
q7\_any

Wind: All: Summary  
-----

```

      type: numeric (byte)
      label: q7_any

      range: [0,1]
unique values: 2
                        units: 1
                        missing .: 16/1,496

      tabulation:  Freq.   Numeric  Label
                   955      0   Nothing
                   525      1   Something
                   16      .

```

CODEBOOK NOTE: q7\_any is a calculated variable indicating whether the jurisdiction or a neighboring jurisdiction either has or has efforts to add/expand wind turbines. q7\_any=1 if q7a\_summary=1, q7b\_summary=1, or q7c\_summary=1.

-----  
q8

Any recent wind proposals that did not move forward?  
-----

QUESTIONNAIRE TEXT: As far as you know, in the last few years have there been any proposals that did not move forward regarding the development of any kind of turbines in your jurisdiction (or in neighboring jurisdictions that may have impacted your jurisdiction)?

```

      type: numeric (byte)
      label: y_n_dk

      range: [1,3]
unique values: 3
                        units: 1
                        missing .: 25/1,496

      tabulation:  Freq.   Numeric  Label
                   235      1   Yes
                   994      2   No
                   242      3   Don't Know
                   25      .

```

-----  
q7\_8\_any

Wind: Any current activity or efforts in jurisdiction or neighbor  
-----

```

      type: numeric (byte)
      label: q78any

      range: [0,1]
unique values: 2
                        units: 1
                        missing .: 15/1,496

      tabulation:  Freq.   Numeric  Label
                   861      0   No activity or efforts
                   620      1   Activity or efforts

```

CODEBOOK NOTE: q7\_8\_any is a calculated variable summarizing a respondent's answers to Q7 and Q8. A code of 1 indicates that the jurisdiction or one of its neighbors has current wind turbine activity, has efforts to add/expand wind turbines, or has had proposals to develop wind turbines that did not move forward in the last few years.

-----  
 q9  
 Extent of jurisdiction's discussion on wind turbines  
 -----

QUESTIONNAIRE TEXT: To what extent, if at all, would you say current or potential wind turbines within your jurisdiction are a topic of discussion, either in the community at large or within your jurisdiction's government?

type: numeric (byte)  
 label: issue  
  
 range: [1,4] units: 1  
 unique values: 4 missing .: 17/1,496

tabulation:	Freq.	Numeric	Label
	141	1	Major issue, discussed extensively
	553	2	Minor issue, discussed but not extensively
	726	3	Not an issue at all
	59	4	Don't Know
	17	.	

-----  
 q10a  
 Wind turbine support/opposition: Jurisdiction's Council/Board  
 -----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of wind turbines in your community. In your opinion, do the following people or groups either support or oppose the use of wind turbines in general within your jurisdiction? The majority of your jurisdiction's Council/Board.

type: numeric (byte)  
 label: support\_oppose1  
  
 range: [1,6] units: 1  
 unique values: 6 missing .: 756/1,496

tabulation:	Freq.	Numeric	Label
	59	1	Strongly Support
	204	2	Somewhat Support
	237	3	Neither Support nor Oppose
	56	4	Somewhat Oppose
	43	5	Strongly Oppose
	141	6	Don't Know
	756	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q10b

Wind turbine support/opposition: Jurisdiction's Citizens  
-----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of wind turbines in your community. In your opinion, do the following people or groups either support or oppose the use of wind turbines in general within your jurisdiction? The majority of your jurisdiction's citizens.

type: numeric (byte)  
label: support\_oppose1

range: [1,6] units: 1  
unique values: 6 missing : 761/1,496

tabulation:	Freq.	Numeric	Label
	21	1	Strongly Support
	158	2	Somewhat Support
	212	3	Neither Support nor Oppose
	84	4	Somewhat Oppose
	52	5	Strongly Oppose
	208	6	Don't Know
	761	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q10c

Wind turbine support/opposition: Respondent as jurisdiction official  
-----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of wind turbines in your community. In your opinion, do the following people or groups either support or oppose the use of wind turbines in general within your jurisdiction? You as a jurisdiction official.

type: numeric (byte)  
label: support\_oppose1

range: [1,6] units: 1  
unique values: 6 missing : 760/1,496

tabulation:	Freq.	Numeric	Label
	154	1	Strongly Support
	242	2	Somewhat Support
	194	3	Neither Support nor Oppose
	59	4	Somewhat Oppose
	58	5	Strongly Oppose
	29	6	Don't Know
	760	.	

SKIP PATTERN: Not asked if q9=3.  
-----



q11a

Efforts to regulate wind turbines: Tax or other incentives

---

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate wind turbines within your jurisdiction? Offer tax or other incentives.

type: numeric (byte)  
label: adoption

range: [1,4] units: 1  
unique values: 4 missing .: 758/1,496

tabulation:	Freq.	Numeric	Label
	17	1	Have Adopted
	35	2	Likely to Adopt
	569	3	Neither
	117	4	Don't Know
	758	.	

SKIP PATTERN: Not asked if q9=3.

---

q11b

Efforts to regulate wind turbines: Local moratorium and/or ban

---

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate wind turbines within your jurisdiction? A local moratorium and/or ban on wind turbines.

type: numeric (byte)  
label: adoption

range: [1,4] units: 1  
unique values: 4 missing .: 765/1,496

tabulation:	Freq.	Numeric	Label
	28	1	Have Adopted
	29	2	Likely to Adopt
	561	3	Neither
	113	4	Don't Know
	765	.	

SKIP PATTERN: Not asked if q9=3.

---

q11c

Efforts to regulate wind turbines: Local ordinance and/or zoning

---

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to

promote, restrict, or simply regulate wind turbines within your jurisdiction? Other local ordinances and/or zoning codes.

type: numeric (byte)  
label: adoption  
range: [1,4] units: 1  
unique values: 4 missing : 764/1,496

tabulation:	Freq.	Numeric	Label
	244	1	Have Adopted
	137	2	Likely to Adopt
	237	3	Neither
	114	4	Don't Know
	764	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q11d

Efforts to regulate wind turbines: Intergovernmental agreement  
-----

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate wind turbines within your jurisdiction? Intergovernmental agreements with neighboring jurisdictions.

type: numeric (byte)  
label: adoption  
range: [1,4] units: 1  
unique values: 4 missing : 773/1,496

tabulation:	Freq.	Numeric	Label
	24	1	Have Adopted
	63	2	Likely to Adopt
	448	3	Neither
	188	4	Don't Know
	773	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12a

Affect use of turbines: Visual or noise impacts  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Potential visual or noise impacts.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 783/1,496

tabulation:	Freq.	Numeric	Label
	5	1	Significantly Encouraging
	15	2	Somewhat Encouraging
	171	3	Mixed
	197	4	Somewhat Discouraging
	166	5	Significantly Discouraging
	68	6	Not a Factor
	91	7	Don't Know
	783	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12b

Affect use of turbines: Road construction, use, damage, etc.  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Road construction, use, damage, etc.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 789/1,496

tabulation:	Freq.	Numeric	Label
	7	1	Significantly Encouraging
	23	2	Somewhat Encouraging
	172	3	Mixed
	117	4	Somewhat Discouraging
	59	5	Significantly Discouraging
	185	6	Not a Factor
	144	7	Don't Know
	789	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12c

Affect use of turbines: Impact on property values  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Impact on property values.

```

      type: numeric (byte)
      label: encourage_discourage

      range: [1,7]
      unique values: 7

      units: 1
      missing .: 784/1,496

```

```

tabulation: Freq.   Numeric  Label
              4         1  Significantly Encouraging
              37         2  Somewhat Encouraging
             155         3  Mixed
             160         4  Somewhat Discouraging
             125         5  Significantly Discouraging
              96         6  Not a Factor
             135         7  Don't Know
             784         .

```

SKIP PATTERN: Not asked if q9=3.

q12d

Affect use of turbines: Community organizations active on wind issues

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Community organizations active on wind energy issues.

```

      type: numeric (byte)
      label: encourage_discourage

      range: [1,7]
      unique values: 7

      units: 1
      missing .: 791/1,496

```

```

tabulation: Freq.   Numeric  Label
              10         1  Significantly Encouraging
              48         2  Somewhat Encouraging
             151         3  Mixed
              39         4  Somewhat Discouraging
              50         5  Significantly Discouraging
             218         6  Not a Factor
             189         7  Don't Know
             791         .

```

SKIP PATTERN: Not asked if q9=3.

q12e

Affect use of turbines: Business proposals to establish wind turbines

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging

the use of wind turbines within your jurisdiction? Business proposals to establish wind farms or utility-scale turbines.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 792/1,496

tabulation:	Freq.	Numeric	Label
	13	1	Significantly Encouraging
	57	2	Somewhat Encouraging
	129	3	Mixed
	37	4	Somewhat Discouraging
	40	5	Significantly Discouraging
	241	6	Not a Factor
	187	7	Don't Know
	792	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12f

Affect use of turbines: Connecting turbines to electrical grid  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Connecting turbines to the electrical grid.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 796/1,496

tabulation:	Freq.	Numeric	Label
	30	1	Significantly Encouraging
	90	2	Somewhat Encouraging
	129	3	Mixed
	34	4	Somewhat Discouraging
	36	5	Significantly Discouraging
	172	6	Not a Factor
	209	7	Don't Know
	796	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12g

Affect use of turbines: Local job creation and/or economic development  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Local job creation and/or economic development.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 795/1,496

tabulation:	Freq.	Numeric	Label
	32	1	Significantly Encouraging
	165	2	Somewhat Encouraging
	154	3	Mixed
	28	4	Somewhat Discouraging
	19	5	Significantly Discouraging
	159	6	Not a Factor
	144	7	Don't Know
	795	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12h

Affect use of turbines: Revenue for land-owners  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Revenue for land-owners.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 794/1,496

tabulation:	Freq.	Numeric	Label
	55	1	Significantly Encouraging
	211	2	Somewhat Encouraging
	132	3	Mixed
	17	4	Somewhat Discouraging
	12	5	Significantly Discouraging
	119	6	Not a Factor
	156	7	Don't Know
	794	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12i

Affect use of turbines: Local property tax revenue

-----  
QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Local property tax revenue.

type: numeric (byte)  
label: encourage\_discourage  
  
range: [1,7] units: 1  
unique values: 7 missing .: 804/1,496

tabulation:	Freq.	Numeric	Label
	45	1	Significantly Encouraging
	188	2	Somewhat Encouraging
	130	3	Mixed
	20	4	Somewhat Discouraging
	24	5	Significantly Discouraging
	140	6	Not a Factor
	145	7	Don't Know
	804	.	

SKIP PATTERN: Not asked if q9=3.

-----  
q12j

Affect use of turbines: Depreciation tables for wind turbines  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Depreciation tables for wind turbines set by the State Tax Commission.

type: numeric (byte)  
label: encourage\_discourage  
  
range: [1,7] units: 1  
unique values: 7 missing .: 797/1,496

tabulation:	Freq.	Numeric	Label
	10	1	Significantly Encouraging
	39	2	Somewhat Encouraging
	145	3	Mixed
	61	4	Somewhat Discouraging
	53	5	Significantly Discouraging
	125	6	Not a Factor
	266	7	Don't Know
	797	.	

SKIP PATTERN: Not asked if q9=3.  
-----

q12k

Affect use of turbines: Preservation of farmland

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Preservation of farmland.

type: numeric (byte)
label: encourage\_discourage
range: [1,7]
unique values: 7
units: 1
missing.: 796/1,496

tabulation: Freq. Numeric Label
41 1 Significantly Encouraging
108 2 Somewhat Encouraging
139 3 Mixed
62 4 Somewhat Discouraging
44 5 Significantly Discouraging
148 6 Not a Factor
158 7 Don't Know
796 .

SKIP PATTERN: Not asked if q9=3.

q12l

Affect use of turbines: Wind speed & reliability

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Wind speed and reliability.

type: numeric (byte)
label: encourage\_discourage
range: [1,7]
unique values: 7
units: 1
missing.: 801/1,496

tabulation: Freq. Numeric Label
35 1 Significantly Encouraging
82 2 Somewhat Encouraging
138 3 Mixed
87 4 Somewhat Discouraging
83 5 Significantly Discouraging
83 6 Not a Factor
187 7 Don't Know
801 .

SKIP PATTERN: Not asked if q9=3.



-----  
q12m

Affect use of turbines: Other  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Other.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 1,250/1,496

tabulation:	Freq.	Numeric	Label
	3	1	Significantly Encouraging
	3	2	Somewhat Encouraging
	9	3	Mixed
	6	4	Somewhat Discouraging
	18	5	Significantly Discouraging
	31	6	Not a Factor
	176	7	Don't Know
	1,250	.	

SKIP PATTERN: Not asked if q9=3.  
-----

q12other

Affect use of turbines: Other-specify  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction? Other.

type: string (str240)

unique values: 53 missing "": 1,443/1,496

SKIP PATTERN: Not asked if q9=3.  
-----

CODEBOOK NOTE: This variable does not appear in the Stata dataset, because some versions of Stata do not support long string variables. Responses to q12other are available in the excel file 2013-Fall-Opens-Redacted.xlsx, and can be linked back to the original data using the variable respondent\_id, as well as the ID.date, ID.start, ID.endDate, and ID.end variables. Additionally, to protect respondent confidentiality, identifying information from responses was redacted. Redacted text was denoted [REDACTED]. The original responses are not available to secondary users of the data.  
-----

q13

Additional issues regarding wind energy in jurisdiction

---

QUESTIONNAIRE TEXT: Are there any additional issues regarding wind energy in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

type: string (str244)

unique values: 139

missing "": 1,336/1,496

SKIP PATTERN: Not asked if q9=3.

CODEBOOK NOTE: This variable does not appear in the Stata dataset, because some versions of Stata do not support long string variables. Responses to q13 available in the excel file 2013-Fall-Opens-Redacted.xlsx, and can be linked back to the original data using the variable respondent\_id, as well as the ID.date, ID.start, ID.endDate, and ID.end variables. Additionally, to protect respondent confidentiality, identifying information from responses was redacted. Redacted text was denoted [REDACTED]. The original responses are not available to secondary users of the data.

---

q14a

Authority for decisions regarding wind turbines: Federal government

---

QUESTIONNAIRE TEXT: Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines. The federal government.

type: numeric (byte)

label: authority

range: [1,4]

units: 1

unique values: 4

missing .: 88/1,496

tabulation:	Freq.	Numeric	Label
	59	1	A Great Deal of Authority
	573	2	Some Authority
	707	3	No Authority
	69	4	Don't Know
	88	.	

q14b

Authority for decisions regarding wind turbines: State governments

---

QUESTIONNAIRE TEXT: Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines. State governments.

type: numeric (byte)

label: authority  
range: [1,4] units: 1  
unique values: 4 missing .: 82/1,496

tabulation:	Freq.	Numeric	Label
	207	1	A Great Deal of Authority
	950	2	Some Authority
	205	3	No Authority
	52	4	Don't Know
	82	.	.

-----  
q14c

Authority for decisions regarding wind turbines: Local governments  
-----

QUESTIONNAIRE TEXT: Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines. Local governments.

type: numeric (byte)  
label: authority

range: [1,4] units: 1  
unique values: 4 missing .: 66/1,496

tabulation:	Freq.	Numeric	Label
	970	1	A Great Deal of Authority
	403	2	Some Authority
	18	3	No Authority
	39	4	Don't Know
	66	.	.

-----  
q14d

Authority for decisions regarding wind turbines: Land-owners  
-----

QUESTIONNAIRE TEXT: Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines. Land-owners.

type: numeric (byte)  
label: authority

range: [1,4] units: 1  
unique values: 4 missing .: 79/1,496

tabulation:	Freq.	Numeric	Label
	654	1	A Great Deal of Authority
	626	2	Some Authority
	73	3	No Authority
	64	4	Don't Know
	79	.	.

-----  
q15a

Traditional wells: Currently active  
-----

QUESTIONNAIRE TEXT: Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? (check all that apply): Yes, currently active traditional wells.

```
      type: numeric (byte)
      label: selected

      range: [0,1]
unique values: 2                               units: 1
                                                missing .: 59/1,496

      tabulation: Freq.   Numeric  Label
                  1,147      0    Not Selected
                  290       1    Selected
                  59        .
```

-----  
q15b

Traditional wells: Now inactive  
-----

QUESTIONNAIRE TEXT: Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? (check all that apply): Yes, but now inactive traditional wells.

```
      type: numeric (byte)
      label: selected

      range: [0,1]
unique values: 2                               units: 1
                                                missing .: 59/1,496

      tabulation: Freq.   Numeric  Label
                  1,281      0    Not Selected
                  156       1    Selected
                  59        .
```

-----  
q15c

Traditional wells: No history  
-----

QUESTIONNAIRE TEXT: Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? (check all that apply): No, no history of traditional oil and gas extraction at all.

```

        type: numeric (byte)
        label: selected

        range: [0,1]
unique values: 2
                                units: 1
                                missing .: 59/1,496

```

```

tabulation: Freq.   Numeric  Label
              691       0  Not Selected
              746       1  Selected
              59        .

```

---

q15d  
Traditional wells: Don't Know

---

QUESTIONNAIRE TEXT: Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? (check all that apply): Don't Know.

```

        type: numeric (byte)
        label: selected

        range: [0,1]
unique values: 2
                                units: 1
                                missing .: 59/1,496

```

```

tabulation: Freq.   Numeric  Label
              1,171     0  Not Selected
              266       1  Selected
              59        .

```

---

q15\_summary  
Traditional wells: summary

---

```

        type: numeric (byte)
        label: q15slabels

        range: [1,3]
unique values: 3
                                units: 1
                                missing .: 59/1,496

```

```

tabulation: Freq.   Numeric  Label
              425       1  Yes
              746       2  No
              266       3  Don't Know
              59        .

```

CODEBOOK NOTE: q15\_summary is a calculated variable summarizing q15a-q15d. A code of 1 indicates that a jurisdiction has a history of traditional wells, either currently active or now inactive.

-----  
q16

How familiar are you with hydraulic fracturing?  
-----

QUESTIONNAIRE TEXT: Recent attention has focused on the extraction of natural gas through hydraulic fracturing and horizontal drilling of underground shale deposits, using high volumes of fluid to break the rock. This is sometimes called "fracking," and we use these terms interchangeably throughout this section to refer to high-volume hydraulic fracturing. How familiar would you say you are with hydraulic fracturing?

type: numeric (byte)  
label: familiar  
range: [1,5] units: 1  
unique values: 5 missing : 51/1,496

tabulation:	Freq.	Numeric	Label
	175	1	Very Familiar
	723	2	Somewhat Familiar
	386	3	Mostly Unfamiliar
	115	4	Completely Unfamiliar
	46	5	Don't Know
	51	.	

-----  
q17a1

Hydraulic fracturing in Juris.: Currently have  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations within your jurisdiction? Currently have.

type: numeric (byte)  
label: selected  
range: [0,1] units: 1  
unique values: 2 missing : 208/1,496

tabulation:	Freq.	Numeric	Label
	1,235	0	Not Selected
	53	1	Selected
	208	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17a2

Hydraulic fracturing in Juris.: Efforts to Add/Expand  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations within your jurisdiction? Efforts to add/expand.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 208/1,496

tabulation:	Freq.	Numeric	Label
	1,216	0	Not Selected
	72	1	Selected
	208	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17a3  
Hydraulic fracturing in Juris.: No, Neither  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations within your jurisdiction? No, Neither.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 208/1,496

tabulation:	Freq.	Numeric	Label
	285	0	Not Selected
	1,003	1	Selected
	208	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17a4  
Hydraulic fracturing in Juris.: Don't Know  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations within your jurisdiction? Don't Know.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 208/1,496

tabulation:	Freq.	Numeric	Label
-------------	-------	---------	-------

1,125	0	Not Selected
163	1	Selected
208	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17a\_summary  
Hydraulic Fracturing in Juris.: Summary  
-----

type: numeric (byte)  
label: q17\_summary  
range: [1,3] units: 1  
unique values: 3 missing .: 208/1,496

tabulation:	Freq.	Numeric	Label
	122	1	Have or Efforts
	1,003	2	Neither
	163	3	Don't Know
	208	.	

CODEBOOK NOTE: q17a\_summary is a calculated variable indicating whether a jurisdiction has current fracking activity or has efforts to add/expand fracking.

-----  
q17b1  
Hydraulic fracturing in neighbor: Currently have  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations in neighboring jurisdictions that may impact your jurisdiction? Currently have.

type: numeric (byte)  
label: selected  
range: [0,1] units: 1  
unique values: 2 missing .: 245/1,496

tabulation:	Freq.	Numeric	Label
	1,142	0	Not Selected
	109	1	Selected
	245	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17b2  
Hydraulic fracturing in neighbor: Efforts to Add/Expand  
-----

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add



or expand such fracking operations in neighboring jurisdictions that may impact your jurisdiction? Efforts to add/expand.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 245/1,496

tabulation:	Freq.	Numeric	Label
	1,112	0	Not Selected
	139	1	Selected
	245	.	

SKIP PATTERN: Not asked if q16=4.

---

q17b3

Hydraulic fracturing in neighbor: No, Neither

---

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations in neighboring jurisdictions that may impact your jurisdiction? No, Neither.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 245/1,496

tabulation:	Freq.	Numeric	Label
	615	0	Not Selected
	636	1	Selected
	245	.	

SKIP PATTERN: Not asked if q16=4.

---

q17b4

Hydraulic fracturing in neighbor: Don't Know

---

QUESTIONNAIRE TEXT: As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations in neighboring jurisdictions that may impact your jurisdiction? Don't Know.

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 245/1,496

tabulation:	Freq.	Numeric	Label
	872	0	Not Selected

379 1 Selected  
245 .

SKIP PATTERN: Not asked if q16=4.

-----  
q17b\_summary  
Hydraulic Fracturing in neighbor: Summary  
-----

type: numeric (byte)  
label: q17\_summary  
range: [1,3] units: 1  
unique values: 3 missing .: 245/1,496

tabulation:	Freq.	Numeric	Label
	236	1	Have or Efforts
	636	2	Neither
	379	3	Don't Know
	245	.	

CODEBOOK NOTE: q17b\_summary is a calculated variable indicating whether a neighboring jurisdiction has current fracking activity or has efforts to add/expand fracking.

-----  
q17\_any  
Fracking: All: Summary  
-----

type: numeric (byte)  
label: q7\_any  
range: [0,1] units: 1  
unique values: 2 missing .: 167/1,496

tabulation:	Freq.	Numeric	Label
	1,063	0	Nothing
	266	1	Something
	167	.	

CODEBOOK NOTE: q17\_any is a calculated variable indicating whether the jurisdiction or any neighboring jurisdictions have current fracking activity or have efforts to add/expand fracking.

-----  
q18  
Any recent fracking that did not move forward?  
-----

QUESTIONNAIRE TEXT: As far as you know, in the last few years have there been any proposals that did not move forward regarding fracking operations within your jurisdiction (or in neighboring jurisdictions that may have impacted your jurisdiction)?

type: numeric (byte)

label: y\_n\_dk  
range: [1,3] units: 1  
unique values: 3 missing .: 185/1,496

tabulation:	Freq.	Numeric	Label
	53	1	Yes
	953	2	No
	305	3	Don't Know
	185	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q17\_18\_any  
Any current fracking activity or recent proposals in juris or neighbors?  
-----

type: numeric (byte)  
label: q1718  
range: [0,1] units: 1  
unique values: 2 missing .: 166/1,496

tabulation:	Freq.	Numeric	Label
	1,042	0	No activity or attempts
	288	1	Activity or attempts
	166	.	

CODEBOOK NOTE: q17\_18\_any is a calculated variable which summarizes a respondent's answers to q17 and q18. A code of 1 indicates that the jurisdiction or one of its neighbors has current fracking activity, efforts to add/expand fracking, or had proposals that did not move forward regarding fracking operations.

-----  
q19  
Extent of jurisdiction's discussion on fracking  
-----

QUESTIONNAIRE TEXT: To what extent, if at all, would you say current or potential fracking within your jurisdiction is a topic of discussion, either in the community at large or within your jurisdiction's government?

type: numeric (byte)  
label: issue  
range: [1,4] units: 1  
unique values: 4 missing .: 172/1,496

tabulation:	Freq.	Numeric	Label
	117	1	Major issue, discussed extensively
	360	2	Minor issue, discussed but not extensively
	785	3	Not an issue at all
	62	4	Don't Know
	172	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q20a

Hydraulic Fracturing support/opposition: Jurisdiction's Council/Board  
-----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of hydraulic fracturing in your community. In your opinion, do the following people or groups either support or oppose the use of fracking in your jurisdiction? The majority of your jurisdiction's Council/Board.

type: numeric (byte)  
label: support\_oppose1  
  
range: [1,6] units: 1  
unique values: 6 missing .: 962/1,496

tabulation:	Freq.	Numeric	Label
	7	1	Strongly Support
	68	2	Somewhat Support
	151	3	Neither Support nor Oppose
	81	4	Somewhat Oppose
	69	5	Strongly Oppose
	158	6	Don't Know
	962	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q20b

Hydraulic Fracturing support/opposition: Jurisdiction's Citizens  
-----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of hydraulic fracturing in your community. In your opinion, do the following people or groups either support or oppose the use of fracking in your jurisdiction? The majority of your jurisdiction's citizens.

type: numeric (byte)  
label: support\_oppose1  
  
range: [1,6] units: 1  
unique values: 6 missing .: 963/1,496

tabulation:	Freq.	Numeric	Label
	6	1	Strongly Support
	50	2	Somewhat Support
	102	3	Neither Support nor Oppose
	128	4	Somewhat Oppose
	71	5	Strongly Oppose
	176	6	Don't Know
	963	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q20c

Hydraulic Fracturing support/opposition: Respondent as jurisdiction official  
-----

QUESTIONNAIRE TEXT: We are interested in sources of support or opposition to the use of hydraulic fracturing in your community. In your opinion, do the following people or groups either support or oppose the use of fracking in your jurisdiction? You as a jurisdiction official.

type: numeric (byte)  
label: support\_oppose1

range: [1,6] units: 1  
unique values: 6 missing .: 970/1,496

tabulation:	Freq.	Numeric	Label
	42	1	Strongly Support
	117	2	Somewhat Support
	127	3	Neither Support nor Oppose
	66	4	Somewhat Oppose
	126	5	Strongly Oppose
	48	6	Don't Know
	970	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q21a

Efforts to regulate hydraulic fracturing: Tax or other incentives  
-----

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction? Offer tax or other incentives.

type: numeric (byte)  
label: adoption

range: [2,4] units: 1  
unique values: 3 missing .: 965/1,496

tabulation:	Freq.	Numeric	Label
	16	2	Likely to Adopt
	408	3	Neither
	107	4	Don't Know
	965	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q21b

Efforts to regulate hydraulic fracturing: Local moratorium and/or ban  
-----

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction? A local moratorium and/or ban on hydraulic fracturing.

type: numeric (byte)  
label: adoption  
range: [1,4] units: 1  
unique values: 4 missing : 966/1,496

tabulation:	Freq.	Numeric	Label
	10	1	Have Adopted
	46	2	Likely to Adopt
	343	3	Neither
	131	4	Don't Know
	966	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q21c

Efforts to regulate hydraulic fracturing: Local ordinance and/or zoning  
-----

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction? Other local ordinances and/or zoning codes.

type: numeric (byte)  
label: adoption  
range: [1,4] units: 1  
unique values: 4 missing : 969/1,496

tabulation:	Freq.	Numeric	Label
	8	1	Have Adopted
	90	2	Likely to Adopt
	280	3	Neither
	149	4	Don't Know
	969	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q21d

Efforts to regulate hydraulic fracturing: Intergovernmental agreement  
-----

QUESTIONNAIRE TEXT: Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction? Intergovernmental agreements with neighboring jurisdictions.

type: numeric (byte)  
label: adoption

range: [1,4] units: 1  
unique values: 4 missing .: 968/1,496

tabulation:	Freq.	Numeric	Label
	1	1	Have Adopted
	45	2	Likely to Adopt
	306	3	Neither
	176	4	Don't Know
	968	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22a

Affect use of fracking: Local job creation and/or economic development  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Local job creation and/or economic development.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 982/1,496

tabulation:	Freq.	Numeric	Label
	22	1	Significantly Encouraging
	98	2	Somewhat Encouraging
	117	3	Mixed
	11	4	Somewhat Discouraging
	15	5	Significantly Discouraging
	135	6	Not a Factor
	116	7	Don't Know
	982	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22b

Affect use of fracking: Lower energy prices  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Lower energy prices.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 983/1,496

tabulation:	Freq.	Numeric	Label
	28	1	Significantly Encouraging
	115	2	Somewhat Encouraging
	95	3	Mixed
	18	4	Somewhat Discouraging
	15	5	Significantly Discouraging
	116	6	Not a Factor
	126	7	Don't Know
	983	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22c

Affect use of fracking: Potential environmental damage linked to fracking  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Potential environmental damage linked to fracking operations, such as spills, leaks, etc.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 983/1,496

tabulation:	Freq.	Numeric	Label
	5	1	Significantly Encouraging
	7	2	Somewhat Encouraging
	68	3	Mixed
	112	4	Somewhat Discouraging
	171	5	Significantly Discouraging
	50	6	Not a Factor
	100	7	Don't Know
	983	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22d

Affect use of fracking: Potential environmental benefits  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Potential environmental benefits from cleaner-burning natural gas instead of coal.



```

type: numeric (byte)
label: encourage_discourage

range: [1,7]
unique values: 7

units: 1
missing .: 985/1,496

```

tabulation:	Freq.	Numeric	Label
	25	1	Significantly Encouraging
	125	2	Somewhat Encouraging
	133	3	Mixed
	19	4	Somewhat Discouraging
	14	5	Significantly Discouraging
	74	6	Not a Factor
	121	7	Don't Know
	985	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22e  
Affect use of fracking: Potential risks to citizens' health  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Potential risks to citizens' health.

```

type: numeric (byte)
label: encourage_discourage

range: [1,7]
unique values: 7

units: 1
missing .: 982/1,496

```

tabulation:	Freq.	Numeric	Label
	5	1	Significantly Encouraging
	6	2	Somewhat Encouraging
	93	3	Mixed
	91	4	Somewhat Discouraging
	142	5	Significantly Discouraging
	54	6	Not a Factor
	123	7	Don't Know
	982	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22f  
Affect use of fracking: Potential risks to water resources  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or

discouraging the use of fracking within your jurisdiction? Potential risks to water resources.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 987/1,496

tabulation:	Freq.	Numeric	Label
	8	1	Significantly Encouraging
	6	2	Somewhat Encouraging
	76	3	Mixed
	87	4	Somewhat Discouraging
	198	5	Significantly Discouraging
	39	6	Not a Factor
	95	7	Don't Know
	987	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22g

Affect use of fracking: Impact on property values  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Impact on property values.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 992/1,496

tabulation:	Freq.	Numeric	Label
	10	1	Significantly Encouraging
	23	2	Somewhat Encouraging
	99	3	Mixed
	91	4	Somewhat Discouraging
	116	5	Significantly Discouraging
	54	6	Not a Factor
	111	7	Don't Know
	992	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22h

Affect use of fracking: Community organizations active on fracking issues  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or

in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Community organizations active on fracking issues.

```
      type: numeric (byte)
      label: encourage_discourage

      range: [1,7]
unique values: 7                               units: 1
                                                missing .: 989/1,496
```

tabulation:	Freq.	Numeric	Label
	6	1	Significantly Encouraging
	19	2	Somewhat Encouraging
	91	3	Mixed
	77	4	Somewhat Discouraging
	84	5	Significantly Discouraging
	101	6	Not a Factor
	129	7	Don't Know
	989	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22i

Affect use of fracking: Business proposals to establish hydraulic fracturing  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Business proposals to establish hydraulic fracturing operations.

```
      type: numeric (byte)
      label: encourage_discourage

      range: [1,7]
unique values: 7                               units: 1
                                                missing .: 992/1,496
```

tabulation:	Freq.	Numeric	Label
	5	1	Significantly Encouraging
	26	2	Somewhat Encouraging
	103	3	Mixed
	27	4	Somewhat Discouraging
	36	5	Significantly Discouraging
	120	6	Not a Factor
	187	7	Don't Know
	992	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22j

Affect use of fracking: Federal or state regulations  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Federal or state regulations.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 995/1,496

tabulation:	Freq.	Numeric	Label
	13	1	Significantly Encouraging
	37	2	Somewhat Encouraging
	129	3	Mixed
	35	4	Somewhat Discouraging
	42	5	Significantly Discouraging
	66	6	Not a Factor
	179	7	Don't Know
	995	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22k  
Affect use of fracking: Revenue for land-owners  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Revenue for land-owners.

type: numeric (byte)  
label: encourage\_discourage  
range: [1,7] units: 1  
unique values: 7 missing .: 988/1,496

tabulation:	Freq.	Numeric	Label
	54	1	Significantly Encouraging
	154	2	Somewhat Encouraging
	94	3	Mixed
	12	4	Somewhat Discouraging
	14	5	Significantly Discouraging
	53	6	Not a Factor
	127	7	Don't Know
	988	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q221

Affect use of fracking: Local property tax revenue

---

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Local property tax revenue.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7]   units: 1  
unique values: 7   missing .: 989/1,496

tabulation:	Freq.	Numeric	Label
	23	1	Significantly Encouraging
	128	2	Somewhat Encouraging
	103	3	Mixed
	24	4	Somewhat Discouraging
	12	5	Significantly Discouraging
	80	6	Not a Factor
	137	7	Don't Know
	989	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

---

q22m

Affect use of fracking: Preservation of farmland

---

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Preservation of farmland.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7]   units: 1  
unique values: 7   missing .: 991/1,496

tabulation:	Freq.	Numeric	Label
	24	1	Significantly Encouraging
	68	2	Somewhat Encouraging
	106	3	Mixed
	49	4	Somewhat Discouraging
	56	5	Significantly Discouraging
	81	6	Not a Factor
	121	7	Don't Know
	991	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22n

Affect use of fracking: Availability of underground shale gas deposits  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Availability of underground shale gas deposits.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 991/1,496

tabulation:	Freq.	Numeric	Label
	26	1	Significantly Encouraging
	96	2	Somewhat Encouraging
	96	3	Mixed
	22	4	Somewhat Discouraging
	27	5	Significantly Discouraging
	44	6	Not a Factor
	194	7	Don't Know
	991	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22o

Affect use of fracking: Other  
-----

QUESTIONNAIRE TEXT: We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction? Other.

type: numeric (byte)  
label: encourage\_discourage

range: [1,7] units: 1  
unique values: 7 missing .: 1,322/1,496

tabulation:	Freq.	Numeric	Label
	1	1	Significantly Encouraging
	4	2	Somewhat Encouraging
	9	3	Mixed
	2	4	Somewhat Discouraging
	6	5	Significantly Discouraging
	30	6	Not a Factor
	122	7	Don't Know
	1,322	.	

SKIP PATTERN: Not asked if q16=4 or q19=3.

-----  
q22other

Affect use of fracking: Other-specify

-----  
type: string (str239)

unique values: 21

missing "": 1,378/1,496

SKIP PATTERN: Not asked if q16=4 or q19=3.

CODEBOOK NOTE: This variable does not appear in the Stata dataset, because some versions of Stata do not support long string variables. Responses to q22other are available in the excel file 2013-Fall-Opens-Redacted.xlsx, and can be linked back to the original data using the variable respondent\_id, as well as the ID.date, ID.start, ID.endDate, and ID.end variables. Additionally, to protect respondent confidentiality, identifying information from responses was redacted. Redacted text was denoted [REDACTED]. The original responses are not available to secondary users of the data.

-----  
q23

Additional issues regarding hydraulic fracturing in jurisdiction

-----  
QUESTIONNAIRE TEXT: Are there any additional issues regarding hydraulic fracturing in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

type: string (str244)

unique values: 82

missing "": 1,398/1,496

SKIP PATTERN: Not asked if q16=4 or q19=3.

CODEBOOK NOTE: This variable does not appear in the Stata dataset, because some versions of Stata do not support long string variables. Responses to q23 are available in the excel file 2013-Fall-Opens-Redacted.xlsx, and can be linked back to the original data using the variable respondent\_id, as well as the ID.date, ID.start, ID.endDate, and ID.end variables. Additionally, to protect respondent confidentiality, identifying information from responses was redacted. Redacted text was denoted [REDACTED]. The original responses are not available to secondary users of the data.

-----  
q24a

Authority for decisions regarding fracking: Federal government

-----  
QUESTIONNAIRE TEXT: Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great

deal of authority, some authority, or no authority for such decisions regarding fracking. The federal government.

```
      type: numeric (byte)
      label: authority

      range: [1,4]                units: 1
unique values: 4                  missing .: 228/1,496
```

tabulation:	Freq.	Numeric	Label
	203	1	A Great Deal of Authority
	632	2	Some Authority
	366	3	No Authority
	67	4	Don't Know
	228	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q24b

Authority for decisions regarding fracking: State governments  
-----

QUESTIONNAIRE TEXT: Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding fracking. State governments.

```
      type: numeric (byte)
      label: authority

      range: [1,4]                units: 1
unique values: 4                  missing .: 221/1,496
```

tabulation:	Freq.	Numeric	Label
	557	1	A Great Deal of Authority
	600	2	Some Authority
	59	3	No Authority
	59	4	Don't Know
	221	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q24c

Authority for decisions regarding fracking: Local governments  
-----

QUESTIONNAIRE TEXT: Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding fracking. Local governments.

```
      type: numeric (byte)
```



label: authority  
range: [1,4] units: 1  
unique values: 4 missing .: 214/1,496

tabulation:	Freq.	Numeric	Label
	812	1	A Great Deal of Authority
	384	2	Some Authority
	27	3	No Authority
	59	4	Don't Know
	214	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q24d

Authority for decisions regarding fracking: Land-owners  
-----

QUESTIONNAIRE TEXT: Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding fracking. Land-owners.

type: numeric (byte)  
label: authority  
range: [1,4] units: 1  
unique values: 4 missing .: 235/1,496

tabulation:	Freq.	Numeric	Label
	587	1	A Great Deal of Authority
	518	2	Some Authority
	83	3	No Authority
	73	4	Don't Know
	235	.	

SKIP PATTERN: Not asked if q16=4.

-----  
q25a

Energy supply actions: Increase use of nuclear power  
-----

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase the use of nuclear power.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 124/1,496

```

tabulation:  Freq.  Numeric  Label
              251      1  Strongly Support
              526      2  Somewhat Support
              247      3  Somewhat Oppose
              180      4  Strongly Oppose
              168      5  Don't Know
              124      .

```

-----  
q25b

Energy supply actions: Increase use of hydroelectric power  
-----

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase the use of hydroelectric power.

```

type:  numeric (byte)
label:  support_oppose2

```

```

range:  [1,5]                units:  1
unique values:  5            missing .:  122/1,496

```

```

tabulation:  Freq.  Numeric  Label
              481      1  Strongly Support
              639      2  Somewhat Support
              64       3  Somewhat Oppose
              18       4  Strongly Oppose
              172      5  Don't Know
              122      .

```

-----  
q25c

Energy supply actions: Increase use of solar power  
-----

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase the use of solar power.

```

type:  numeric (byte)
label:  support_oppose2

```

```

range:  [1,5]                units:  1
unique values:  5            missing .:  120/1,496

```

```

tabulation:  Freq.  Numeric  Label
              577      1  Strongly Support
              614      2  Somewhat Support
              70       3  Somewhat Oppose
              30       4  Strongly Oppose
              85       5  Don't Know
              120      .

```

-----

q25d

Energy supply actions: Increase production & use of biomass and/or biofuels

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase production and use of biomass and/or biofuels.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 124/1,496

tabulation:	Freq.	Numeric	Label
	342	1	Strongly Support
	642	2	Somewhat Support
	123	3	Somewhat Oppose
	43	4	Strongly Oppose
	222	5	Don't Know
	124	.	

---

q25e

Energy supply actions: Increase regulation of oil & gas pipelines statewide

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase regulation of oil and gas pipelines statewide.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 124/1,496

tabulation:	Freq.	Numeric	Label
	239	1	Strongly Support
	583	2	Somewhat Support
	269	3	Somewhat Oppose
	98	4	Strongly Oppose
	183	5	Don't Know
	124	.	

---

q25f

Energy supply actions: Increase drilling for gas & oil through H-V fracking

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to

address energy supply issues in Michigan? Increase drilling for natural gas and oil through high-volume hydraulic fracturing.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 124/1,496

tabulation:	Freq.	Numeric	Label
	150	1	Strongly Support
	467	2	Somewhat Support
	275	3	Somewhat Oppose
	220	4	Strongly Oppose
	260	5	Don't Know
	124	.	

---

q25g

Energy supply actions: Allow offshore oil & gas drilling in Great Lakes

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Allow offshore oil and gas drilling in the Great Lakes.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 124/1,496

tabulation:	Freq.	Numeric	Label
	90	1	Strongly Support
	404	2	Somewhat Support
	323	3	Somewhat Oppose
	434	4	Strongly Oppose
	121	5	Don't Know
	124	.	

---

q25h

Energy supply actions: Increase use of wind power on land

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase the use of wind power on land.

type: numeric (byte)  
label: support\_oppose2  
range: [1,5] units: 1  
unique values: 5 missing .: 117/1,496

tabulation:	Freq.	Numeric	Label
	447	1	Strongly Support
	640	2	Somewhat Support
	149	3	Somewhat Oppose
	70	4	Strongly Oppose
	73	5	Don't Know
	117	.	

-----  
q25i

Energy supply actions: Increase use of offshore wind power in Great Lakes  
-----

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Increase the use of offshore wind power in the Great Lakes.

type: numeric (byte)  
label: support\_oppose2

range: [1,5] units: 1  
unique values: 5 missing : 115/1,496

tabulation:	Freq.	Numeric	Label
	359	1	Strongly Support
	590	2	Somewhat Support
	182	3	Somewhat Oppose
	147	4	Strongly Oppose
	103	5	Don't Know
	115	.	

-----  
q25j

Energy supply actions: Mandate expand use of renewable energy through state law  
-----

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Mandate expanded use of renewable energy through state law.

type: numeric (byte)  
label: support\_oppose2

range: [1,5] units: 1  
unique values: 5 missing : 112/1,496

tabulation:	Freq.	Numeric	Label
	176	1	Strongly Support
	425	2	Somewhat Support
	335	3	Somewhat Oppose
	290	4	Strongly Oppose
	158	5	Don't Know

---

q25k

Energy supply actions: Mandate energy efficiency/conservation through state law

---

QUESTIONNAIRE TEXT: Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan? Mandate energy efficiency/conservation measures through state law.

```

      type: numeric (byte)
      label: support_oppose2

      range: [1,5]
unique values: 5
                                units: 1
                                missing : 117/1,496

```

```

tabulation:  Freq.  Numeric  Label
              178      1  Strongly Support
              430      2  Somewhat Support
              347      3  Somewhat Oppose
              274      4  Strongly Oppose
              150      5  Don't Know
              117      .

```

---

q26

Extent jurisdiction engages in sustainability planning

---

QUESTIONNAIRE TEXT: Some local governments engage in sustainability planning while others do not. Sustainability is often defined as meeting the needs of the present without compromising the ability of future generations to meet their own needs. It often tries to balance environmental, economic, and social goals or issues. Sustainability planning can encompass a wide range of things, from stand-alone plans to sustainability goals integrated into master plans or zoning plans, efforts to incorporate such planning across multiple departments or activities, and so on. As far as you know, does your jurisdiction engage in sustainability planning, and if so, how extensively?

```

      type: numeric (byte)
      label: amount

      range: [1,5]
unique values: 5
                                units: 1
                                missing : 95/1,496

```

```

tabulation:  Freq.  Numeric  Label
              90      1  A Great Deal
              350      2  A Moderate Amount
              415      3  Some, But Very Little
              401      4  Not at All
              145      5  Don't Know
              95      .

```

---

q27

Jurisdiction's approach to sustainability planning

---

QUESTIONNAIRE TEXT: Please briefly describe your jurisdiction's approach to sustainability planning.

type: string (str244)

unique values: 391

missing "": 1,100/1,496

SKIP PATTERN: Q26=1 or q26=2 or q26=3.

CODEBOOK NOTE: This variable does not appear in the Stata dataset, because some versions of Stata do not support long string variables. Responses to q27 are available in the excel file 2013-Fall-Opens-Redacted.xlsx, and can be linked back to the original data using the variable respondent\_id, as well as the ID.date, ID.start, ID.endDate, and ID.end variables. Additionally, to protect respondent confidentiality, identifying information from responses was redacted. Redacted text was denoted [REDACTED]. The original responses are not available to secondary users of the data.

---

q28

Promoting environmental sustainability is important of local govt. leadership

---

QUESTIONNAIRE TEXT: Do you agree or disagree that promoting environmental sustainability and the concept of "being green" are important aspects of local government leadership?

type: numeric (byte)

label: agree\_disagree1

range: [1,6]

units: 1

unique values: 6

missing .: 101/1,496

tabulation:	Freq.	Numeric	Label
	326	1	Strongly Agree
	635	2	Somewhat Agree
	298	3	Neither Agree nor Disagree
	62	4	Somewhat Disagree
	49	5	Strongly Disagree
	25	6	Don't Know
	101	.	.

q29

How closely are you following Detroit's bankruptcy filing?

---

QUESTIONNAIRE TEXT: Finally, we would like your opinions on some issues related to municipal bankruptcies. This past summer, the City of Detroit filed for Chapter 9

bankruptcy. How closely are you following issues surrounding Detroit's bankruptcy filing?

```
      type: numeric (byte)
      label: close

      range: [1,5]                units: 1
unique values: 5                  missing .: 101/1,496

      tabulation: Freq.   Numeric  Label
                  195      1      Very Closely
                  636      2      Somewhat Closely
                  448      3      Not Very Closely
                  105      4      Not at All
                   11      5      Don't Know
                  101      .
```

---

q30a  
Detroit: Bankruptcy filing was right thing to do

---

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? Overall, Detroit's bankruptcy filing was the right thing to do.

```
      type: numeric (byte)
      label: agree_disagree1

      range: [1,6]                units: 1
unique values: 6                  missing .: 124/1,496

      tabulation: Freq.   Numeric  Label
                  405      1      Strongly Agree
                  368      2      Somewhat Agree
                  277      3      Neither Agree nor Disagree
                   89      4      Somewhat Disagree
                   46      5      Strongly Disagree
                  187      6      Don't Know
                  124      .
```

---

q30b  
Detroit: Bankruptcy will help Detroit restructure & cut costs

---

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? Bankruptcy will help Detroit restructure and cut costs, and therefore be in a better long term financial position.

```
      type: numeric (byte)
      label: agree_disagree1

      range: [1,6]                units: 1
```



unique values: 6 missing .: 126/1,496

tabulation:	Freq.	Numeric	Label
	347	1	Strongly Agree
	442	2	Somewhat Agree
	224	3	Neither Agree nor Disagree
	101	4	Somewhat Disagree
	54	5	Strongly Disagree
	202	6	Don't Know
	126	.	

-----  
q30c

Detroit: Bankruptcy won't result in better policy or management  
-----

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? The bankruptcy process won't result in better policy making or management for the City of Detroit in the long run.

type: numeric (byte)  
label: agree\_disagree1

range: [1,6] units: 1  
unique values: 6 missing .: 131/1,496

tabulation:	Freq.	Numeric	Label
	193	1	Strongly Agree
	340	2	Somewhat Agree
	303	3	Neither Agree nor Disagree
	212	4	Somewhat Disagree
	117	5	Strongly Disagree
	200	6	Don't Know
	131	.	

-----  
q30d

Detroit: Filing will make bankruptcies more likely among other MI local govts.  
-----

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? Detroit's filing will make bankruptcies more likely among other struggling Michigan local governments.

type: numeric (byte)  
label: agree\_disagree1

range: [1,6] units: 1  
unique values: 6 missing .: 131/1,496

tabulation:	Freq.	Numeric	Label
	102	1	Strongly Agree
	469	2	Somewhat Agree
	377	3	Neither Agree nor Disagree

```

179      4 Somewhat Disagree
  55      5 Strongly Disagree
183      6 Don't Know
131      .

```

-----  
q30e

Detroit: State of MI should provide new financial assistance to help Detroit  
-----

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? The State of Michigan should provide new financial assistance to help Detroit.

```

      type: numeric (byte)
      label: agree_disagree1

      range: [1,6]                units: 1
unique values: 6                  missing .: 123/1,496

```

```

tabulation:  Freq.  Numeric  Label
              40      1  Strongly Agree
              186     2  Somewhat Agree
              246     3  Neither Agree nor Disagree
              305     4  Somewhat Disagree
              468     5  Strongly Disagree
              128     6  Don't Know
              123     .

```

-----  
q30f

Detroit: Federal govt. should provide new financial assistance to help Detroit  
-----

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? The federal government should provide new financial assistance to help Detroit.

```

      type: numeric (byte)
      label: agree_disagree1

      range: [1,6]                units: 1
unique values: 6                  missing .: 136/1,496

```

```

tabulation:  Freq.  Numeric  Label
              50      1  Strongly Agree
              208     2  Somewhat Agree
              246     3  Neither Agree nor Disagree
              254     4  Somewhat Disagree
              478     5  Strongly Disagree
              124     6  Don't Know
              136     .

```

-----  
q30g

Detroit: Detroit's fiscal health is important to MI's overall fiscal health

---

QUESTIONNAIRE TEXT: We're interested in local officials' views on issues related to Detroit's bankruptcy filing. Based on what you know now, in general, to what extent do you agree or disagree with each of the following statements? Detroit's fiscal health is important to Michigan's overall fiscal health.

type: numeric (byte)  
label: agree\_disagree1  
range: [1,6] units: 1  
unique values: 6 missing .: 125/1,496

tabulation:	Freq.	Numeric	Label
	362	1	Strongly Agree
	528	2	Somewhat Agree
	218	3	Neither Agree nor Disagree
	94	4	Somewhat Disagree
	70	5	Strongly Disagree
	99	6	Don't Know
	125	.	

---

q31a

Detroit bankruptcy impact: Michigan's reputation

---

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? Michigan's reputation.

type: numeric (byte)  
label: impact  
range: [1,7] units: 1  
unique values: 7 missing .: 135/1,496

tabulation:	Freq.	Numeric	Label
	13	1	Very Positive Impact
	68	2	Somewhat Positive Impact
	413	3	Mixed Positive and Negative Impact
	472	4	Somewhat Negative Impact
	263	5	Very Negative Impact
	50	6	No Impact
	82	7	Don't Know
	135	.	

---

q31b

Detroit bankruptcy impact: Confidence of MI citizens in state's future

---

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? The confidence of Michigan citizens in the state's future.

```

type: numeric (byte)
label: impact

range: [1,7]
unique values: 7

units: 1
missing .: 136/1,496

```

```

tabulation: Freq.   Numeric  Label
              14         1  Very Positive Impact
              166        2  Somewhat Positive Impact
              495        3  Mixed Positive and Negative
                   Impact
              412        4  Somewhat Negative Impact
              101        5  Very Negative Impact
               85        6  No Impact
               87        7  Don't Know
              136         .

```

---

q31c  
 Detroit bankruptcy impact: MI's ability to attract tourism & conventions

---

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? Michigan's ability to attract tourism and conventions.

```

type: numeric (byte)
label: impact

range: [1,7]
unique values: 7

units: 1
missing .: 137/1,496

```

```

tabulation: Freq.   Numeric  Label
              19         1  Very Positive Impact
             101        2  Somewhat Positive Impact
             479        3  Mixed Positive and Negative
                   Impact
             363        4  Somewhat Negative Impact
              73        5  Very Negative Impact
             244        6  No Impact
              80        7  Don't Know
             137         .

```

---

q31d  
 Detroit bankruptcy impact: MI local govts' ability to attract/retain employees

---

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? The ability of Michigan's local governments to attract and retain talented public employees.

```

type: numeric (byte)
label: impact

range: [1,7]
unique values: 7

units: 1
missing .: 138/1,496

```

tabulation:	Freq.	Numeric	Label
	14	1	Very Positive Impact
	94	2	Somewhat Positive Impact
	463	3	Mixed Positive and Negative Impact
	286	4	Somewhat Negative Impact
	63	5	Very Negative Impact
	326	6	No Impact
	112	7	Don't Know
	138	.	

-----  
q31e

Detroit bankruptcy impact: Local govt. home rule & discretion under state law  
-----

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? Local government home rule and discretion under Michigan state law.

type: numeric (byte)  
label: impact

range: [1,7] units: 1  
unique values: 7 missing .: 158/1,496

tabulation:	Freq.	Numeric	Label
	11	1	Very Positive Impact
	92	2	Somewhat Positive Impact
	398	3	Mixed Positive and Negative Impact
	254	4	Somewhat Negative Impact
	81	5	Very Negative Impact
	198	6	No Impact
	304	7	Don't Know
	158	.	

-----  
q31f

Detroit bankruptcy impact: MI local govts' cost of borrowing in near term  
-----

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? Michigan local governments' cost of borrowing through issuing debt in the near term.

type: numeric (byte)  
label: impact

range: [1,7] units: 1  
unique values: 7 missing .: 155/1,496

tabulation:	Freq.	Numeric	Label
	5	1	Very Positive Impact
	61	2	Somewhat Positive Impact
	288	3	Mixed Positive and Negative

	Impact
432	4 Somewhat Negative Impact
137	5 Very Negative Impact
154	6 No Impact
264	7 Don't Know
155	.

-----  
q31g

Detroit bankruptcy impact: Jurisdiction's overall fiscal health  
-----

QUESTIONNAIRE TEXT: What overall impact, if any, do you think Detroit's bankruptcy filing has had or will have on each of the following? Your jurisdiction's overall fiscal health.

```

      type: numeric (byte)
      label: impact

      range: [1,7]
unique values: 7
                                units: 1
                                missing : 137/1,496

```

tabulation:	Freq.	Numeric	Label
	43	1	Very Positive Impact
	59	2	Somewhat Positive Impact
	272	3	Mixed Positive and Negative Impact
	106	4	Somewhat Negative Impact
	17	5	Very Negative Impact
	741	6	No Impact
	121	7	Don't Know
	137	.	

-----  
q32a

Pursue or prevent: Cuts in repayments to bondholders  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Cuts in repayments to the jurisdiction's bondholders.

```

      type: numeric (byte)
      label: pursue_prevent

      range: [1,7]
unique values: 7
                                units: 1
                                missing : 182/1,496

```

tabulation:	Freq.	Numeric	Label
	103	1	High Priority to Pursue
	348	2	Somewhat of a Priority to Pursue
	154	3	Neither
	234	4	Somewhat of a Priority to

		Prevent
146	5	High Priority to Prevent
63	6	Action Should Never be Taken
266	7	Don't Know
182	.	

-----  
q32b

Pursue or prevent: Cuts to pensions of current retirees  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Cuts to pensions of the jurisdiction's current retirees.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing : 159/1,496

tabulation:	Freq.	Numeric	Label
	87	1	High Priority to Pursue
	291	2	Somewhat of a Priority to Pursue
	115	3	Neither
	240	4	Somewhat of a Priority to Prevent
	237	5	High Priority to Prevent
	195	6	Action Should Never be Taken
	172	7	Don't Know
	159	.	

-----  
q32c

Pursue or prevent: Cuts to fringe benefits of current retirees  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Cuts to fringe benefits (health care, etc.) of the jurisdiction's current retirees.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing : 167/1,496

tabulation:	Freq.	Numeric	Label
	146	1	High Priority to Pursue
	401	2	Somewhat of a Priority to Pursue

105	3	Neither
219	4	Somewhat of a Priority to Prevent
179	5	High Priority to Prevent
115	6	Action Should Never be Taken
164	7	Don't Know
167	.	

-----  
q32d

Pursue or prevent: Cuts to compensation for current employees  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Cuts to compensation (pay rates and/or fringe benefits) for the jurisdiction's current employees.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing .: 161/1,496

tabulation:	Freq.	Numeric	Label
	210	1	High Priority to Pursue
	555	2	Somewhat of a Priority to Pursue
	104	3	Neither
	177	4	Somewhat of a Priority to Prevent
	89	5	High Priority to Prevent
	38	6	Action Should Never be Taken
	162	7	Don't Know
	161	.	

-----  
q32e

Pursue or prevent: Cuts to/privatization of public services  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Cuts to, or privatization of, some public services to reduce costs.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing .: 168/1,496

tabulation:	Freq.	Numeric	Label
-------------	-------	---------	-------



349	1	High Priority to Pursue
509	2	Somewhat of a Priority to Pursue
99	3	Neither
121	4	Somewhat of a Priority to Prevent
54	5	High Priority to Prevent
25	6	Action Should Never be Taken
171	7	Don't Know
168	.	

-----  
q32f

Pursue or prevent: Increase service sharing with other governments  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Increase service sharing with other governments to reduce costs.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing : 157/1,496

tabulation:	Freq.	Numeric	Label
	453	1	High Priority to Pursue
	605	2	Somewhat of a Priority to Pursue
	80	3	Neither
	39	4	Somewhat of a Priority to Prevent
	7	5	High Priority to Prevent
	9	6	Action Should Never be Taken
	146	7	Don't Know
	157	.	

-----  
q32g

Pursue or prevent: Sell some jurisdiction assets  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Sell some jurisdiction assets (e.g., parkland, buildings, infrastructure, art holdings, etc.).

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing : 158/1,496



tabulation:	Freq.	Numeric	Label
	77	1	High Priority to Pursue
	381	2	Somewhat of a Priority to Pursue
	240	3	Neither
	207	4	Somewhat of a Priority to Prevent
	154	5	High Priority to Prevent
	103	6	Action Should Never be Taken
	168	7	Don't Know
	166	.	

-----  
q32j

Pursue or prevent: Financial assistance from the federal government  
-----

QUESTIONNAIRE TEXT: Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy? Financial assistance from the federal government.

type: numeric (byte)  
label: pursue\_prevent

range: [1,7] units: 1  
unique values: 7 missing .: 170/1,496

tabulation:	Freq.	Numeric	Label
	122	1	High Priority to Pursue
	330	2	Somewhat of a Priority to Pursue
	234	3	Neither
	166	4	Somewhat of a Priority to Prevent
	164	5	High Priority to Prevent
	140	6	Action Should Never be Taken
	170	7	Don't Know
	170	.	

-----  
q34

Gender  
-----

type: numeric (byte)  
label: gender

range: [1,2] units: 1  
unique values: 2 missing .: 166/1,496

tabulation:	Freq.	Numeric	Label
	775	1	Male
	555	2	Female
	166	.	

-----



range: [1,2] units: 1  
unique values: 2 missing .: 197/1,496

tabulation:	Freq.	Numeric	Label
	12	1	Yes
	1,287	2	No
	197	.	

---

q38a  
Race: White

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	33	0	Not Selected
	1,263	1	Selected
	200	.	

---

q38b  
Race: Black or African American

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	1,285	0	Not Selected
	11	1	Selected
	200	.	

---

q38c  
Race: American Indian or Alaskan Native

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	1,281	0	Not Selected
	15	1	Selected
	200	.	

---

q38d

Race: Native Hawaiian or other Pacific Islander

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	1,295	0	Not Selected
	1	1	Selected
	200	.	

---

q38e

Race: Asian

---

type: numeric (byte)  
label: selected

range: [0,0] units: 1  
unique values: 1 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	1,296	0	Not Selected
	200	.	

---

q38f

Race: Multiracial

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

tabulation:	Freq.	Numeric	Label
	1,287	0	Not Selected
	9	1	Selected
	200	.	

---

q38g

Race: Other

---

type: numeric (byte)  
label: selected

range: [0,1] units: 1  
unique values: 2 missing .: 200/1,496

```

tabulation:  Freq.  Numeric  Label
              1,281    0    Not Selected
              15      1    Selected
              200      .

```

-----  
q38h  
Race: Don't Know  
-----

```

          type: numeric (byte)
          label: selected

          range: [0,1]              units: 1
unique values: 2                   missing .: 200/1,496

```

```

tabulation:  Freq.  Numeric  Label
              1,295    0    Not Selected
              1       1    Selected
              200      .

```

-----  
q39  
Highest level of education  
-----

```

          type: numeric (byte)
          label: schooling

          range: [1,7]              units: 1
unique values: 7                   missing .: 181/1,496

```

```

tabulation:  Freq.  Numeric  Label
              35     1    12th grade or less, no diploma
              182    2    High school graduate or GED
              396    3    Some college, no degree
              147    4    Associate degree
              279    5    Bachelor's degree
              223    6    Master's degree
              53     7    Professional/Doctorate degree
              181    .

```

-----  
q40  
Political affiliation  
-----

```

          type: numeric (byte)
          label: party

          range: [1,4]              units: 1
unique values: 4                   missing .: 246/1,496

```

```

tabulation:  Freq.  Numeric  Label
              577    1    Republican
              404    2    Independent
              219    3    Democrat

```

50 4 Something Else  
246 .

---

q40other  
Political affiliation: Something else-specify

---

type: string (str156)  
unique values: 50 missing "": 1,342/1,496

---

q41  
Strength of political affiliation

---

type: numeric (byte)  
label: strength  
range: [1,3] units: 1  
unique values: 3 missing .: 720/1,496

tabulation:	Freq.	Numeric	Label
	345	1	Very Strong
	371	2	Not Very Strong
	60	3	Don't Know
	720	.	

SKIP PATTERN: not asked unless q40=1 or q40=3

---

q42  
As an Independent, which party are you closer to?

---

type: numeric (byte)  
label: political\_leaning  
range: [1,3] units: 1  
unique values: 3 missing .: 1,050/1,496

tabulation:	Freq.	Numeric	Label
	87	1	Democratic Party
	138	2	Republican Party
	221	3	Neither
	1,050	.	

SKIP PATTERN: not asked unless q40=2 or q40=4

---

q43  
Date hardcopy received

---

type: string (str10)





371	3	20 < x <= 40
256	4	40 < x <= 60
83	5	More than 60 miles

CODEBOOK NOTE: This is a measure of the shortest distance between any point in a jurisdiction to the nearest Great Lake, computed using ArcGIS and grouped to protect respondent confidentiality. The original data used to determine the exact distance from the coast is not available to researchers.

-----  
region  
MI regions  
-----

```

      type: numeric (byte)
      label: soss_reg

      range: [1,6]                units: 1
unique values: 6                  missing .: 0/1,496

```

tabulation:	Freq.	Numeric	Label
	156	1	Upper Peninsula
	256	2	Northern Lower Peninsula
	290	3	West Central Lower Peninsula
	264	4	East Central Lower Peninsula
	242	5	Southwest Lower Peninsula
	288	6	Southeast Lower Peninsula

CODEBOOK NOTE: Regional groupings by county, as developed by MSU's State of the State Survey.

1. Upper Peninsula - Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Ontonagon, Mackinac, Marquette, Menominee, Schoolcraft
2. Northern Lower Peninsula - Alcona, Alpena, Antrim, Benzie, Charlevoix, Cheboygan, Crawford, Emmet, Grand Traverse, Iosco, Kalkaska, Leelanau, Missaukee, Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Wexford
3. West Central - Allegan, Barry, Ionia, Kent, Lake, Manistee, Mason, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Osceola, Ottawa
4. East Central - Arenac, Bay, Clare, Clinton, Gladwin, Gratiot, Huron, Isabella, Midland, Saginaw, Sanilac, Shiawassee, Tuscola
5. Southwest - Berrien, Branch, Calhoun, Cass, Eaton, Hillsdale, Ingham, Jackson, Kalamazoo, St. Joseph, Van Buren
6. Southeast - Genesee, Lapeer, Lenawee, Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw, Wayne

-----  
juris\_rr  
Jurisdiction-level Response Rate  
-----

```

      type: numeric (float)

```

```

range: [.46666667,1]          units: 1.000e-08
unique values: 38             missing .: 0/1,496

mean: .741722
std. dev: .095981

percentiles:      10%      25%      50%      75%      90%
                  .6625   .692308 .727273 .777778 .862069

```

CODEBOOK NOTE: Response rate used to calculate jurisdiction-level weights, jurisdictions in database compared with number of jurisdictions in sample frame.

-----  
juris\_wgt  
Jurisdiction-level Weight  
-----

```

type: numeric (float)

range: [1,2.1428571]         units: 1.000e-07
unique values: 38           missing .: 0/1,496

mean: 1.3705
std. dev: .177545

percentiles:      10%      25%      50%      75%      90%
                  1.16    1.28571 1.375   1.44444 1.50943

```

CODEBOOK NOTE: Weights to be used when analyzing data at the jurisdiction level.

-----  
ind\_rr  
Individual-level Response Rate  
-----

```

type: numeric (float)

range: [.29958677,.66666669] units: 1.000e-08
unique values: 18           missing .: 2/1,496

mean: .420184
std. dev: .0826

percentiles:      10%      25%      50%      75%      90%
                  .310345 .397672 .397672 .405405 .568965

```

CODEBOOK NOTE: Response rate used to calculate individual-level weights, individual respondents in database compared with number of individual officials in sample frame.

-----  
ind\_wgt  
Individual-level Weight  
-----

```

type: numeric (float)

```

```

range: [0,3.3379312]          units: 1.000e-07
unique values: 19             missing .: 0/1,496

mean: 2.45838
std. dev: .441106

percentiles:      10%      25%      50%      75%      90%
                  1.69512  2.46667  2.51463  2.51463  3.22222

```

CODEBOOK NOTE: Weights to be used when analyzing data at the individual level.

-----  
pop\_density  
Population Density  
-----

```

type: numeric (byte)
label: pop_density

range: [1,3]          units: 1
unique values: 3      missing .: 0/1,496

```

tabulation:	Freq.	Numeric	Label
	721	1	Low <100
	436	2	Mid
	339	3	High >800

CODEBOOK NOTE: The categories are based on the number of residents per square mile, as determined by the jurisdiction's 2010 US Census population and the jurisdiction's land area. Corrections have not been made for any annexations or incorporations that have occurred since 2010.

-----  
pop\_township  
Population Category: Township  
-----

```

type: numeric (byte)
label: pop_twp_city

range: [1,3]          units: 1
unique values: 3      missing .: 476/1496

```

tabulation:	Freq.	Numeric	Label
	372	1	<1500
	541	2	1500-10000
	107	3	>10000
	476	.	

CODEBOOK NOTE: This categorical population variable was created to allow for some analysis by population level, while reducing the risk of jurisdiction re-identification that is present when a single population variable is provided for all

jurisdiction types. It is based upon the township's 2010 US Census population. Corrections have not been made for any annexations or incorporations that have occurred since 2010.

-----  
pop\_city Population Category: City  
-----

```
      type: numeric (byte)
      label: pop_twp_city

      range: [1,3]
unique values: 3

                        units: 1
                        missing .: 1271/1496

      tabulation: Freq.  Numeric  Label
                   20      1    <1500
                   122     2    1500-10000
                   83      3    >10000
                   1271     .
```

CODEBOOK NOTE: This categorical population variable was created to allow for some analysis by population level, while reducing the risk of jurisdiction re-identification that is present when a single population variable is provided for all jurisdiction types. It is based upon the city's 2010 US Census population. Corrections have not been made for any annexations or incorporations that have occurred since 2010.

-----  
pop\_village Population Category: Village  
-----

```
      type: numeric (byte)
      label: popvillage

      range: [1,2]
unique values: 2

                        units: 1
                        missing .: 1306/1496

      tabulation: Freq.  Numeric  Label
                   141     1    <1500
                   49      2    >/=1500
                   1306     .
```

CODEBOOK NOTE: This categorical population variable was created to allow for some analysis by population level, while reducing the risk of jurisdiction re-identification that is present when a single population variable is provided for all jurisdiction types. It is based upon the village's 2010 US Census population. Corrections have not been made for any annexations or incorporations that have occurred since 2010.









**Q11.** (Please skip if you selected "not an issue at all" in Q9) Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate wind turbines within your jurisdiction?

	Have Adopted	Likely to Adopt	Neither Adopted Nor Likely to Adopt	Don't Know
Offer tax or other incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A local moratorium and/or ban on wind turbines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other local ordinances and/or zoning codes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intergovernmental agreements with neighboring jurisdictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q12.** (Please skip if you selected "not an issue at all" in Q9) We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction?

	Significantly Encouraging	Somewhat Encouraging	Mixed Encouraging and Discouraging	Somewhat Discouraging	Significantly Discouraging	Not a Factor	Don't Know
Potential visual or noise impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road construction, use, damage, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impact on property values	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community organizations active on wind energy issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business proposals to establish wind farms or utility-scale turbines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Connecting turbines to the electrical grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local job creation and/or economic development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revenue for land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local property tax revenue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depreciation tables for wind turbines set by the State Tax Commission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation of farmland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wind speed and reliability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q13.** (Please skip if you selected "not an issue at all" in Q9) Are there any additional issues regarding wind energy in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

**Q14.** Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines.

	A Great Deal of Authority	Some Authority	No Authority	Don't Know
The federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q15.** Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? *(check all that apply)*

- Yes, currently active traditional wells
- Yes, but now inactive traditional wells
- No, no history of traditional oil and gas extraction at all
- Don't Know

**Q16.** Recent attention has focused on the extraction of natural gas through hydraulic fracturing and horizontal drilling of underground shale deposits, using high volumes of fluid to break the rock. This is sometimes called "fracking," and we use these terms interchangeably throughout this section to refer to high-volume hydraulic fracturing.

How familiar would you say you are with hydraulic fracturing?

- Very familiar — I know a great deal about it
- Somewhat familiar — I have heard of it, and understand it fairly well, but don't know many details
- Mostly unfamiliar — I have heard of it, but know very little about it
- Completely unfamiliar — I have never heard of it before *(if you select "completely unfamiliar," please skip to Q25)*
- Don't Know

**Q17.** *(Please skip if you selected "completely unfamiliar" in Q16)* As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations? *(check all that apply)*

	Currently have	Efforts to add/expand	No, Neither	Don't Know
Within your jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In neighboring jurisdictions that may impact your jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q18.** *(Please skip if you selected "completely unfamiliar" in Q16)* As far as you know, in the last few years have there been any proposals that did not move forward regarding fracking operations within your jurisdiction (or in neighboring jurisdictions that may have impacted your jurisdiction)?

- Yes
- No
- Don't Know

**Q19.** *(Please skip if you selected "completely unfamiliar" in Q16)* To what extent, if at all, would you say current or potential fracking within your jurisdiction is a topic of discussion, either in the community at large or within your jurisdiction's government?

- It's a major issue, fracking has been discussed extensively within my jurisdiction.
- It's a minor issue, fracking has been discussed, but not extensively.
- Not an issue at all, there has not been any discussion of fracking within my jurisdiction now or in the recent past. *(if you select "not an issue at all," please skip to Q24)*
- Don't Know

**Q20.** *(Please skip if you selected "not an issue at all" in Q19)* We are interested in sources of support or opposition to the use of hydraulic fracturing in your community. In your opinion, do the following people or groups either support or oppose the use of fracking in your jurisdiction?

	Strongly Support	Somewhat Support	Neither Support Nor Oppose	Somewhat Oppose	Strongly Oppose	Don't Know
The majority of your jurisdiction's Council/Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The majority of your jurisdiction's citizens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
You as a jurisdiction official	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q21.** *(Please skip if you selected "not an issue at all" in Q19)* Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction?

	Have Adopted	Likely to Adopt	Neither Adopted Nor Likely to Adopt	Don't Know
Offer tax or other incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A local moratorium and/or ban on hydraulic fracturing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other local ordinances and/or zoning codes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intergovernmental agreements with neighboring jurisdictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q22.** (Please skip if you selected "not an issue at all" in Q19) We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction?

	Significantly Encouraging	Somewhat Encouraging	Mixed Encouraging and Discouraging	Somewhat Discouraging	Significantly Discouraging	Not a Factor	Don't Know
Local job creation and/or economic development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lower energy prices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential environmental damage linked to fracking operations, such as spills, leaks, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential environmental benefits from cleaner-burning natural gas instead of coal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential risks to citizens' health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential risks to water resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impact on property values	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community organizations active on fracking issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business proposals to establish hydraulic fracturing operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal or state regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revenue for land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local property tax revenue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation of farmland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of underground shale gas deposits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q23.** (Please skip if you selected "not an issue at all" in Q19) Are there any additional issues regarding hydraulic fracturing in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

**Q24.** (Please skip if you selected "completely unfamiliar" in Q16) Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding fracking.

	A Great Deal of Authority	Some Authority	No Authority	Don't Know
The federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Q25.** Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan?

	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Increase the use of nuclear power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of hydroelectric power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of solar power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase production and use of biomass and/or biofuels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase regulation of oil and gas pipelines statewide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase drilling for natural gas and oil through high-volume hydraulic fracturing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allow offshore oil and gas drilling in the Great Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of wind power on land	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of offshore wind power in the Great Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandate expanded use of renewable energy through state law	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandate energy efficiency/conservation measures through state law	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Q32. Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy?

	A High Priority to Pursue	Somewhat of a Priority to Pursue	Neither	Somewhat of a Priority to Prevent	A High Priority to Prevent	Action Should Never Be Taken	Don't Know
Cuts in repayments to the jurisdiction's bondholders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to pensions of the jurisdiction's current retirees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to fringe benefits (health care, etc.) of the jurisdiction's current retirees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to compensation (pay rates and/or fringe benefits) for the jurisdiction's current employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to, or privatization of, some public services to reduce costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase service sharing with other governments to reduce costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sell some jurisdiction assets (e.g., parkland, buildings, infrastructure, art holdings, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Raise local revenue through increased taxes or fees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial assistance from the state government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial assistance from the federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q33. CLOSUP will protect your privacy and anonymity to the full extent provided by law. We need to confirm your personal information such as name, email address, and phone number for tracking and administrative purposes only. Your personal information will not be shared with any outside sources. As with all of the questions in this survey, these are optional.

Your name \_\_\_\_\_ Your phone number \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 Your email address \_\_\_\_\_

Finally, we would like to ask you some demographic questions. As with all of the questions in this survey, these are optional. Responses will be reported in aggregate form only so that your individual responses will remain confidential.

Q34. What is your gender?  Male  Female

Q35. In what year were you born? 19 \_\_\_\_ \_\_\_\_

Q36. How many years have you served in your current position? \_\_\_\_\_

Q37. Are you of Spanish, Hispanic, or Latino descent?  Yes  No

Q38. Please check one or more categories below to indicate what race(s) you consider yourself to be. (check all that apply)

- |  |                                      |
|--|--------------------------------------|
| <input type="checkbox"/> White                                     | <input type="checkbox"/> Asian       |
| <input type="checkbox"/> Black or African American                 | <input type="checkbox"/> Multiracial |
| <input type="checkbox"/> American Indian or Alaskan Native         | <input type="checkbox"/> Other       |
| <input type="checkbox"/> Native Hawaiian or other Pacific Islander | <input type="checkbox"/> Don't Know  |

Q39. What is the highest degree or level of school you have completed?

- |  |  |
|--|--|
| <input type="checkbox"/> 12th grade or less/no diploma | <input type="checkbox"/> Bachelor's degree             |
| <input type="checkbox"/> High school graduate or GED   | <input type="checkbox"/> Master's degree               |
| <input type="checkbox"/> Some college, no degree       | <input type="checkbox"/> Professional/Doctorate degree |
| <input type="checkbox"/> Associate's degree            |  |

Q40. Generally speaking, do you think of yourself as a...?

- Republican  Independent  Democrat  Something Else (please specify) \_\_\_\_\_

Q41. (If Republican or Democrat) Would you consider yourself a strong or not very strong Republican/Democrat?

- Very Strong  Not Very Strong  Don't Know

Q42. (If Independent or something else) Would you consider yourself closer to...?

- The Democratic Party  The Republican Party  Neither