**Supplementary Information: Survey questionnaire with key**

**ID**: What is your ID#? It is the three-digit number located on your return envelope.

**YEAR**: In what year did your family first acquire this property?"

**ACRES**: How many total acres is your property?

[Multiple Choice]: What values influence your land ownership and management? Select all that apply.

|  |  |  |
| --- | --- | --- |
| Variable | Key | Value |
| **VAL\_RES** | Primary residence | No - 0  Yes – 1 |
| **VAL\_BUILD** | Build infrastructure (homes, storage, etc.) |
| **VAL\_HAB** | Nature/habitat |
| **VAL\_INV** | Investment |
| **VAL\_FARM** | Farming/ranching income |
| **VAL\_REC** | Recreation |
| **VAL\_HERI** | To pass land on to my children or heirs |
| **VAL\_PRIV** | Privacy |

[Multiple Choice]: What are the primary uses and activities on your land? Select all that apply.

|  |  |  |
| --- | --- | --- |
| Variable | Key | Value |
| **USE\_REC** | Recreation | No - 0  Yes – 1 |
| **USE\_HUNT** | Hunting |
| **USE\_INV** | Investment |
| **USE\_TIMB** | Timber |
| **USE\_FAM** | Family events |
| **USE\_AG** | Agriculture/Farming |
| **USE\_HAB** | Providing habitat |
| **USE\_LEAS** | Renting/ Leasing |
| **USE\_GRAZ** | Grazing/livestock |

**INCENTIVE** [No – 0; Yes – 1]:Have you ever participated in voluntary incentive or stewardship programs for land owners before? (e.g. Environmental Quality Incentives Program (EQIP), Conservation Reserve Enhancement Program (CREP), Forest Stewardship Program, Wetlands Reserve Program)

**BMP** [No – 0; Yes – 1]: Do you implement some form of Best Management Practice (BMP)?

**FOR\_BMP** [No – 0; Yes – 1]: Do you implement some form of forestry Best Management Practice (BMP)?

[Multiple Choice]: What are the topmost influential sources of information for your land management?

|  |  |  |
| --- | --- | --- |
| Variable | Key | Value |
| **INFO\_EXT** | University Extension agents | No - 0  Yes – 1 |
| **INFO\_NGO** | Nonprofit Organizations |
| **INFO\_CD** | Conservation District |
| **INFO\_MI** | State of Michigan Departments (e.g., DNR, DEQ, MDARD) |
| **INFO\_LA** | Landowner association |
| **INFO\_AGF** | Agriculture or Forestry Association |
| **INFO\_COM** | Trade, business, and commodity groups, including their publications |
| **INFO\_NEI** | Neighbors |
| **INFO\_FAM** | Family/Friends |
| **INFO\_OTH** | Other |

**INFO**: What are the topmost influential sources of information for your land management? [Aggregated from survey results]

|  |  |
| --- | --- |
| Key | Value |
| None | 0 |
| Family or Neighbors | 1 |
| Extension | 2 |
| Commodity groups & Private (Agriculture or commodity group) | 3 |
| Public (Michigan Agency, Conservation District) | 4 |
| Other | 5 |

[Multiple Choice]: What are you topmost most influential factors in land management decision-making?

|  |  |  |
| --- | --- | --- |
| Variable | Key | Value |
| **DEC\_ZON** | Local zoning laws | No - 0  Yes – 1 |
| **DEC\_FED** | Federal policy |
| **DEC\_STAT** | State level policy |
| **DEC\_PROF** | Profitability (e.g. cost, commodity price projections) |
| **DEC\_VOLU** | Voluntary incentive programs |
| **DEC\_CD** | Local Conservation District advice |
| **DEC\_NEI** | Activities, expectations, or needs of neighbors |
| **DEC\_FAM** | Activities, expectations, or needs of family / friends |
| **DEC\_COM** | Trade, business, and commodity groups, including their publications |
| **DEC\_OTH** | Other |

[Multiple Choice]: Please rate your agreement with the following statements.

|  |  |  |
| --- | --- | --- |
| Variable | Value | Value |
| **Q25\_1** | I regularly interact with other landowners in my area | 0 – I don’t know  1 – Disagree  2 – Somewhat disagree  3 – Neither  4 – Somewhat agree  5 – Agree |
| **Q25\_2** | I make decisions about my land based on outcomes and information from my neighbors |
| **Q25\_3** | Others’ strategies for land management are similar to my own |
| **Q25\_4** | My children and/or grandchildren influence my decision making about land management |
| **CHANGE** | I would be willing to change management practices if it did not result in compromising its current value to family use |
| **STEWARD** | Environmental stewardship and beliefs influence my land management |
| **OPEN** | I am open to new ways of managing my land |
| **IMPACT** | I consider environmental impact when managing my land’s productivity |
| **LIMITS** | Finances limit my desired participation in environmentally focused land management programs (e.g., BMP, CREP, EQIP) |

**SEQUES**: Please rate how familiar you are with the following: Carbon sequestration: the uptake of carbon from the atmosphere by terrestrial plants, soils, or water bodies.

0 – I don’t know

1 – Very unfamiliar

2 – Somewhat unfamiliar

3 – Neither

4 – Somewhat familiar

5 – Very familiar

[Multiple Choice]: According to your definition of climate change, please rate your agreement with the following statements.

|  |  |  |
| --- | --- | --- |
| Variable | Key | Value |
| **MANAGE** | My land management strategy affects the carbon cycle. | 0 – I don’t know  1 – Disagree  2 – Somewhat disagree  3 – Neither  4 – Somewhat agree  5 – Agree |
| **CC\_INFO** | The organizations and programs I participate in encourage climate change mitigation. |
| **CC\_LEARN** | I would like to learn how my land can provide carbon sequestration. |
| **CC\_CONC** | Climate change is a concern for my region and property. |
| **CC\_MANAGE** | Climate change influences my current land management decisions. |

**FOREST**: What is the acreage of forestland on your property?

**BUILT**: What is the acreage of developed land on your property?

**AG**: What is the acreage of cropland on your property?

**WETLAND**: What is the acreage of wetland on your property?

**PRAIRIE**: What is the acreage of prairie on your property?

**OTHER**: What is the acreage of other land cover types, not previously mentioned, on your property?

**WATER**: What is the acreage of water bodies on your property?

**MARGINAL:** Do you have marginal land (i.e., land unsuitable for agriculture because it is greater than a 20% slope, does not drain well, and/or has poor soil suitability)? (yes - 1/no - 0)

**OFF\_NOW:** Do you currently participate in a carbon offset program? (yes - 1/no - 0)

**FALLOW:** Do you have fallow land (i.e., land that could be used for agriculture but is not)? (yes - 1/no - 0)

**Q38. OFF\_CON**

Have you considered participating in a carbon offset program (i.e., reduce your carbon dioxide and greenhouse gas emissions to compensate for emissions made elsewhere)? (yes - 1/no - 0)

**CCALC:** Have you or anyone else calculated carbon storage on your land?

binary (yes - 1/no - 0)

**CARBON:** Are you currently, or have youever, considered measures to increase carbon sequestration? (e.g, planting trees, no-till farming, croptype, wetland restoration)

binary (yes - 1/no - 0)

**INVENT:** Have you ever inventoried the plants or trees on your land?

binary (yes - 1/no - 0)

**BUFFER:** Have you ever purposely created permanent, vegetated buffers? (i.e. windbreaks, alley cropping, or grass waterways) - Selected Choice

binary (yes - 1/no – 0

**AGE**: What is your age?

**FEMALE**: What is your gender? (Male – 0, Female – 1)

**INCOME**: What is your estimated annual household salary?

1 - Less than $24,999

2 - $25,000 - $49,999

3 - $50,000 - $99,999

4 - $100,000 - $149,999

5 - $150,000 - $199,999

6 - $200,000 and above

**EDU:** What is your highest level of education?

0 Non-response

1. Grade School
2. High school or GED
3. Some college / associate degree/ Other (e.g. trade school)
4. Bachelor’s degree
5. Graduate Degree