



MDEM Cadastral Framework Data Layer Development Project Scope of Work





**For Cadastral Work Order
Nos. 22-2, 23-3 & 23-8**


Mississippi Department of Environmental Quality
August 2023

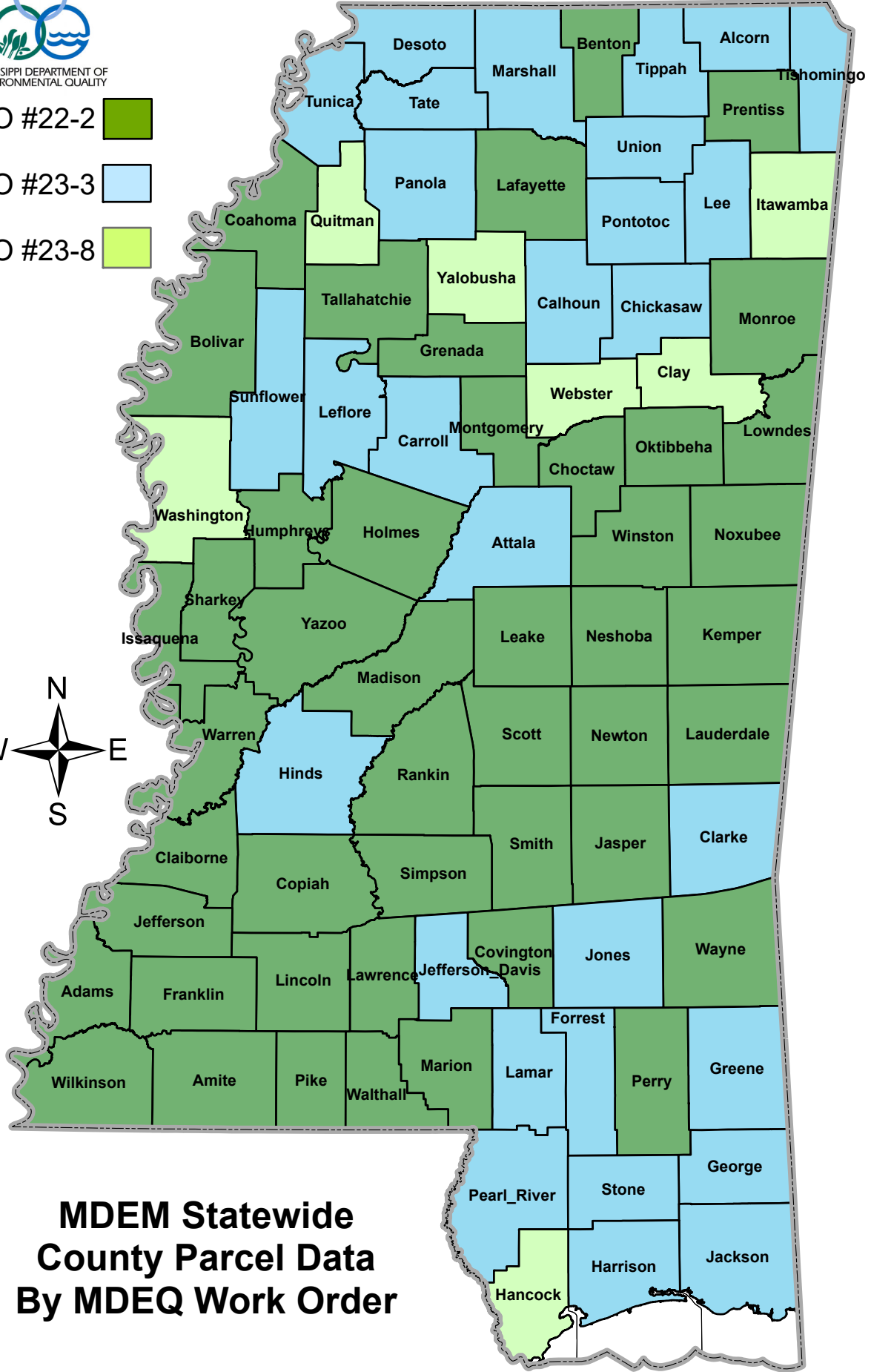
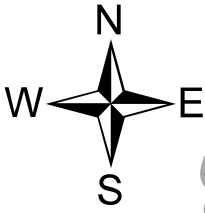


MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

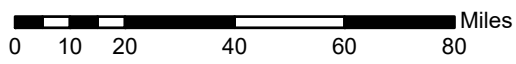
WO #22-2 

WO #23-3 

WO #23-8 



MDEM Statewide County Parcel Data By MDEQ Work Order



**Attachment A
WO No. 22-2**



MDEM Cadastral Framework Data Layer Development Project Scope of Work

*Prepared by
Mississippi Geographic Information, LLC*

Attachment A

Goals

- Initiate development of the MDEM Cadastral Framework Data Layer
- Collect Cadastral Data for 46 identified counties to populate the MDEM attribute table (included)
- Establish maintenance procedures for the 46 identified counties for annual updates
- Make all data developed available through gis.ms.gov (the MDEM website) as part of a statewide map viewer
- Prioritize and budget the remaining 36 counties

Identified Counties

The counties in the table below have been chosen based on results from the Statewide Cadastral Situational Assessment performed in 2021:

No	County Name	Parcel Count	Parcels Maintained by	Existing Format
1	Issaquena	3000	TSC	ESRI Polygons
2	Benton	9100	TSC	ESRI Polygons
3	Walthall	14800	TSC	ESRI Polygons
4	Coahoma	16500	TSC	ESRI Polygons
5	Adams	17900	TSC	ESRI Polygons
6	Lincoln	25524	TSC	ESRI Polygons
7	Sharkey	5000	TSC	AutoCad
8	Jefferson	8350	TSC	AutoCad
9	Humphreys	9000	TSC	AutoCad
10	Choctaw	9500	TSC	AutoCad
11	Franklin	9600	TSC	AutoCad
12	Noxubee	10500	TSC	AutoCad
13	Wilkinson	10800	TSC	AutoCad
14	Montgomery	11000	TSC	AutoCad
15	Perry	11200	TSC	AutoCad

Attachment A

16	Tallahatchie	11550	TSC	AutoCad
17	Kemper	12500	TSC	AutoCad
18	Lawrence	13000	TSC	AutoCad
19	Holmes	16000	TSC	AutoCad
20	Grenada	16100	TSC	AutoCad
21	Winston	16400	TSC	AutoCad
22	Covington	17000	TSC	AutoCad
23	Leake	17000	TSC	AutoCad
24	Smith	17000	TSC	AutoCad
25	Amite	17100	TSC	AutoCad
26	Wayne	17300	TSC	AutoCad
27	Newton	17700	TSC	AutoCad
28	Prentiss	18200	TSC	AutoCad
29	Jasper	19500	TSC	AutoCad
30	Neshoba	20000	TSC	AutoCad
31	Yazoo	20200	TSC	AutoCad
32	Scott	21500	TSC	AutoCad
33	Copiah	22200	TSC	AutoCad
34	Bolivar	24100	TSC	AutoCad
35	Oktibbeha	24400	TSC	AutoCad
36	Monroe	28600	TSC	AutoCad
37	Lafayette	31600	TSC	AutoCad
38	Lauderdale	46600	TSC	AutoCad
39	Claiborne	8235	County	ESRI Polygons
40	Marion	10075	County	ESRI Polygons
41	Simpson	21500	County	ESRI Polygons
42	Warren	26750	County	ESRI Polygons
43	Pike	29400	County	ESRI Polygons
44	Madison	56600	County	ESRI Polygons
45	Rankin	79500	County	ESRI Polygons

Attachment A

46	Lowndes	22200	County	AutoCad
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Tasks

1. Collection of Cadastral Data
2. Collection of Attributes
3. Metadata Development
4. Maintenance procedures for annual updates
5. Updating statewide map viewer on gis.ms.gov (the MDEM website)
6. Scope Refinement, Prioritization, and Budgeting of remaining 36 Counties



Task 1 – Collection of Cadastral Data

1. Converting AutoCAD parcels into GIS format using existing tools or custom tools developed by the MGI Software Development Team, when needed.
 - o Create Allmaps: Merge all individual dwg files into 1 Countywide file
 - o Run in house scripts to find errors
 - o DWG topology cleanup for overshoots, undershoots, gaps, overlaps, etc.
This task could take a few hours or several days depending on the County size & number of errors
 - o Run Conversion model on Countywide dwg file
 - o Correct any errors that keep polygons from building that Arc detected.
This task could take a few hours or several days depending on the County size and number of errors

Attachment A

- o Collect new tax roll
- o Run reconciliation scripts and assign parcel numbers where necessary
- o Develop a staging table for comparing the existing tax roll schema to the MDEM attribute model
- o Conflate data to MDEM data model
- o Build a set of tools and workflows to streamline this process for annual updates.

2. Evaluate existing GIS parcel datasets for completeness and collect attributes from existing parcel datasets to populate the MDEM attribute table. This methodology is for County datasets that are already topologically sound and in ESRI format.

- o Collect new tax roll
- o Run Reconciliation scripts and assign parcel numbers where necessary
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Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) created from one of the above steps.

Task 2 – Collection of Attributes.

Land Parcels have a set of unique and standard fields and attributes in the current dataset. The attribute information must be obtained from county officials for each land parcel. The following attributes will be collected for all 46 identified counties:

Attachment A

Draft Parcel Attributes – For Statewide Layer		
<u>Element Geometry</u>		<u>Description</u>
Parcel Outline (Polygon)		This is the geographic extent of the parcel, the parcel boundaries forming a closed polygon.
Parcel Centroid		A point within the parcel that can be used to link related data or display at smaller mapping scales. It may be but need not be the geometric centroid; placement inside the boundary of the associated polygon is required.
<u>Element Fields</u>	<u>Field Name</u>	<u>Field Description</u>
1	CAMA Provider	<u>CAMA</u> Computer Assisted Mass Appraisal Vendor
2	Parcel ID	<u>PARNO</u> A unique identifier for the parcel as defined by the jurisdiction. It should be unique across the jurisdiction.
3	Parcel ID Alternate	<u>ALTPARNO</u> An alternate unique identifier for the parcel as defined by the jurisdiction. It should be unique across the jurisdiction.
4	PPIN	<u>PPIN</u> Unique Parcel Identification Number.
5	Owner Name	<u>OWNNAME</u> An indication of the owner name (full name).
6	Owner Mailing Address1	<u>MAILADD1</u> This is the US Postal address for the owner (street number, street direction, street name, street type), which is commonly the mailing address for the tax bill, but not in all cases. Separate fields for city, state, and ZIP code are common and recommended.
7		<u>MCITY1</u>
8		<u>MSTATE1</u>
9		<u>MZIP1</u>
10	Owner Mailing Address2	<u>MAILADD2</u> This is the <i>Second</i> US Postal address for the owner (street number, street direction, street name, street type), which is commonly the mailing address for the tax bill, but not in all cases. Separate fields for city, state, and ZIP code are common and recommended.
11		<u>MCITY2</u>
12		<u>MSTATE2</u>
13		<u>MZIP2</u>

Attachment A

14	Parcel Street Address	<u>SITEADD</u>	This is the location of the property as the primary street address (site address) for the parcel. Separate fields for city, state, and ZIP code are recommended.
15		SCITY	
16		SSTATE	
17		SZIP	
18	Subdivision Name	<u>SUBDIVISIO</u>	This is the name of the subdivision or condominium name in which the parcel is located.
19	Subdivision Number	<u>SUBDIVNO</u>	This is the unique subdivision number associated with the subdivision.
20	Land Area	<u>TAXACRES</u>	The area of land in acres as recorded in the tax roll.
21		<u>GISACRES</u>	The area of land in acres as calculated from the geometry of the polygon using a geographic information system (GIS).
22	Deed Book and Page	<u>DEEDREF</u>	This is the deed book and deed page associated with the parcel.
23	Deed Date	<u>DEEDDATE</u>	Recorded date of the deed, in date format.
24	Plat Book and Page	<u>PLATREF</u>	This is the plat book and plat page associated with the parcel.
25	Plat Date	<u>PLATDATE</u>	Recorded date of the plat, in date format.
26	Tax Map	<u>TAXMAP</u>	The tax map number which this parcel falls on.
27	PLSS Grid	<u>SECTION</u>	The Section, Township, & Range that the parcel resides.
28		<u>TWSP</u>	
29		<u>RANGE</u>	
30	Taxable Status	<u>TAXSTATUS</u>	Classification of owner taxable status (private taxable or exempt defined by MS Dept of Revenue)
31	State Name	<u>STNAME</u>	State name in standard abbreviation.
32	County Name	<u>CNTYNAME</u>	County name.
33	County Identifier	<u>CNTYFIPS</u>	County identifier from the Federal Information Processing Standards (FIPS).
34	State Identifier	<u>STFIPS</u>	State FIPS identifier.
35	State and County Identifier	<u>STCNTYFIPS</u>	
	Appraised Values		
36	Land Value	<u>LANDVAL</u>	
37	Improvement Value	<u>IMPROVVAL</u>	
38	Total Value	<u>TOTVAL</u>	
39	Land Use	<u>LANDUSE</u>	
40	Latitude	<u>LATDEC</u>	
41	Longitude	<u>LONDEC</u>	
42	Zoning	<u>ZONING</u>	

Attachment A

43 | Legal description

| LegDescrip |

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attribute information.

Task 3 – Metadata Development

Metadata is mandatory information about each land parcel database. Each land parcel database's metadata can be created, modified, and viewed. The title, type, source, author, latest changed date, thumbnail, and tags will be updated to the metadata. Additional information may be included, such as attributes, attribute descriptions, summaries, project descriptions, spatial coordinate system, recentness, limits on using/sharing the item and credits, etc. in accordance with FGDC databases requirements.

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attributes and Metadata information.

Task 4 – Maintenance procedures for annual updates

MGI will develop in house routines and processes for streamlining the annual update process for the 46 identified counties.

Task 5 – Updating gis.ms.gov (the MDEM website)

MGI will collaborate with appropriate county officials, MDEQ, and ITS to allow for access to Cadastral Data for the 46 identified counties through the MDEM website for public and private use and distribution depending on the sensitivity of the data.

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attributes and Metadata information served through gis.ms.gov (the MDEM website).

Attachment A

Task 6 – Scope Refinement, Prioritization, and Budgeting for remaining 36 Counties

MGI will develop and refine the scope, prioritize based on funding availability and need, and assign budgets for the remaining 36 counties.

Deliverables: MGI will develop and provide a proposed scope with associated costs, and a prioritized list for the remaining 36 counties to deliver a complete MDEM Cadastral Framework Data Layer.

**Attachment A
WO No. 23-3**



MDEM Cadastral Framework Data Layer Development Project Scope of Work

*Prepared by
Mississippi Geographic Information, LLC*

Attachment A

Goals

- Continue development of the MDEM Cadastral Framework Data Layer
- Collect Cadastral Data for 29 identified counties to populate the MDEM attribute table (included)
- Establish maintenance procedures for the 29 identified counties for annual updates
- Make all data developed available through gis.ms.gov (the MDEM website) as part of a statewide map viewer
- Prioritize and budget the remaining 7 counties

Identified Counties

The counties in the table below have been chosen based on results from the Statewide Cadastral Situational Assessment performed in 2021:

No	County Name	Parcel Count	Parcels Maintained by	Existing Format
1	Alcorn	22500	County	AutoCad
2	Attala	17000	County	ESRI Polygons
3	Calhoun	13000	TSC	ESRI Polygons
4	Carroll	12000	County	ESRI Polygons
5	Chickasaw	13650	County	AutoCad
6	Clarke	16600	County	AutoCad
7	Desoto	78730	County	ESRI Polygons
8	Forrest	42000	County	AutoCad
9	George	19000	County	AutoCad
10	Greene	14000	County	AutoCad
11	Harrison	105894	County	ESRI Polygons
12	Hinds	128000	County	ESRI Polygons
13	Jackson	85000	County	ESRI Polygons
14	Jefferson Davis	14723	County	ESRI Polygons
15	Jones	41000	County	AutoCad

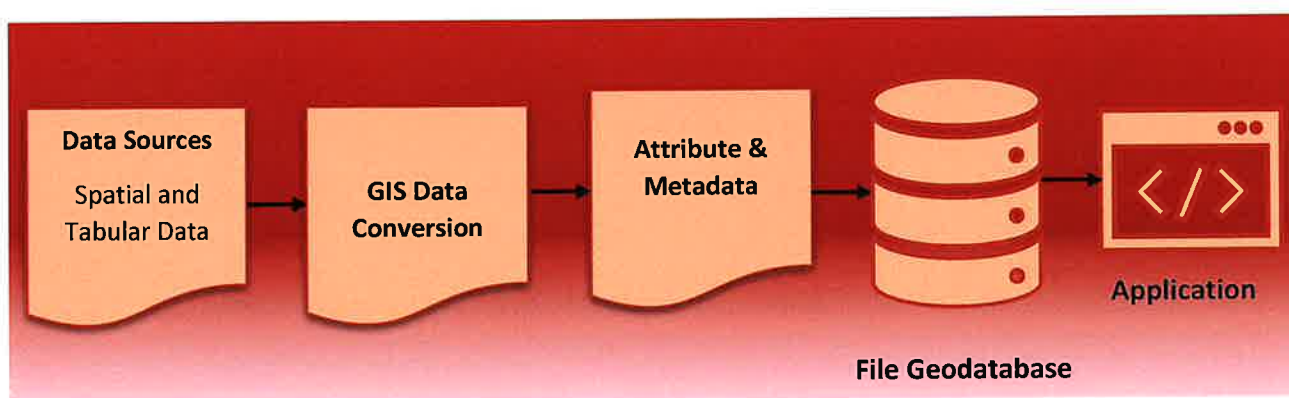
Attachment A

16	Lamar	35000	County	ESRI Polygons
17	Lee	43500	County	AutoCad
18	Leflore	17050	TSC	AutoCad
19	Marshall	26000	County	AutoCad
20	Panola	24600	County	AutoCad
21	Pearl River	49502	County	ESRI Polygons
22	Pontotoc	20500	County	ESRI Polygons
23	Stone	14500	County	ESRI Polygons
24	Sunflower	16500	TSC	AutoCad
25	Tate	17500	County	AutoCad
26	Tippah	17350	County	ESRI Polygons
27	Tishomingo	17000	County	ESRI Polygons
28	Tunica	6500	TSC	AutoCad
29	Union	20000	County	ESRI Polygons

Attachment A

Tasks

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2. Collection of Attributes
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<u>Element Geometry</u>		<u>Description</u>
Parcel Outline (Polygon)		This is the geographic extent of the parcel, the parcel boundaries forming a closed polygon.

Attachment A

	Parcel Centroid		A point within the parcel that can be used to link related data or display at smaller mapping scales. It may be but need not be the geometric centroid; placement inside the boundary of the associated polygon is required.
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7		<u>MCITY1</u>	
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9		<u>MZIP1</u>	
10	Owner Mailing Address2	<u>MAILADD2</u>	This is the <i>Second</i> US Postal address for the owner (street number, street direction, street name, street type), which is commonly the mailing address for the tax bill, but not in all cases. Separate fields for city, state, and ZIP code are common and recommended.
11		<u>MCITY2</u>	
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14	Parcel Street Address	<u>SITEADD</u>	This is the location of the property as the primary street address (site address) for the parcel. Separate fields for city, state, and ZIP code are recommended.
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17		<u>SZIP</u>	
18	Subdivision Name	<u>SUBDIVISIO</u>	This is the name of the subdivision or condominium name in which the parcel is located.
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Attachment A

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31	State Name	<u>STNAME</u>	State name in standard abbreviation.
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	Appraised Values		
36	Land Value	<u>LANDVAL</u>	
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43	Legal description	<u>LegDescrip</u>	

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attribute information.

Attachment A

Task 3 – Metadata Development

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Attachment A



MDEM Cadastral Framework Data Layer Development Project Scope of Work

*Prepared by
Mississippi Geographic Information, LLC*

Attachment A

Goals

- Continue development of the MDEM Cadastral Framework Data Layer
- Collect Cadastral Data for 7 identified counties to populate the MDEM attribute table (included)
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Identified Counties

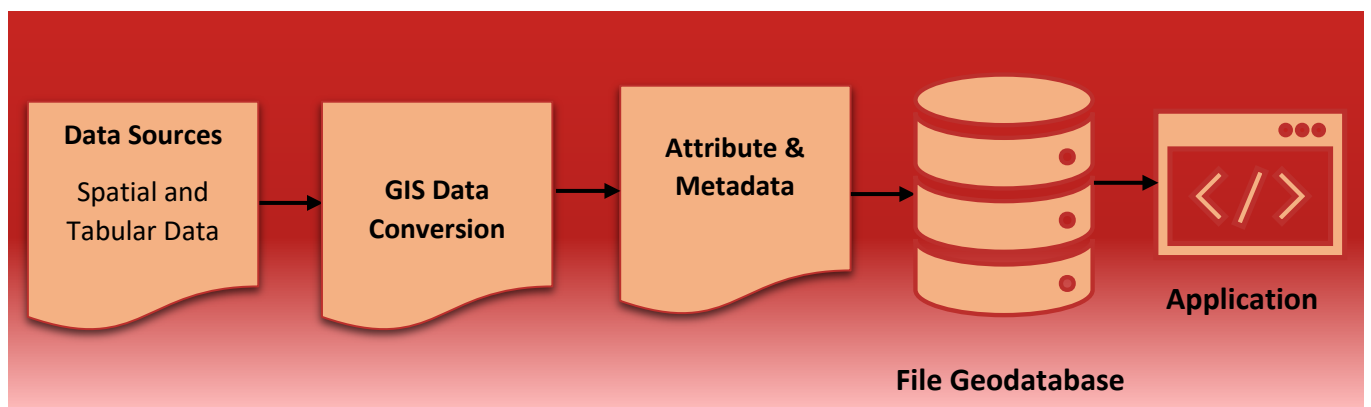
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No	County Name	Parcel Count	Parcels Maintained by	Existing Format
1	Clay	13125	County	ArcGIS
2	Hancock	55000	County	ArcGIS
3	Itawamba	16000	County	ArcGIS
4	Quitman	8309	County	ArcGIS
5	Washington	32000	County	ArcGIS
6	Webster	9300	County	ArcGIS
7	Yalobusha	12566	County	ArcGIS

Attachment A

Tasks

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14	Parcel Street Address	<u>SITEADD</u>	This is the location of the property as the primary street address (site address) for the parcel. Separate fields for city, state, and ZIP code are recommended.
15		SCITY	
16		SSTATE	
17		<u>SZIP</u>	
18	Subdivision Name	<u>SUBDIVISIO</u>	This is the name of the subdivision or condominium name in which the parcel is located.
19	Subdivision Number	<u>SUBDIVNO</u>	This is the unique subdivision number associated with the subdivision.

Attachment A

20	Land Area	<u>TAXACRES</u>	The area of land in acres as recorded in the tax roll.
21		<u>GISACRES</u>	The area of land in acres as calculated from the geometry of the polygon using a geographic information system (GIS).
22	Deed Book and Page	<u>DEEDREF</u>	This is the deed book and deed page associated with the parcel.
23	Deed Date	<u>DEEDDATE</u>	Recorded date of the deed, in date format.
24	Plat Book and Page	<u>PLATREF</u>	This is the plat book and plat page associated with the parcel.
25	Plat Date	<u>PLATDATE</u>	Recorded date of the plat, in date format.
26	Tax Map	<u>TAXMAP</u>	The tax map number which this parcel falls on.
27	PLSS Grid	<u>SECTION</u>	The Section, Township, & Range that the parcel resides.
28		<u>TWSP</u>	
29		<u>RANGE</u>	
30	Taxable Status	<u>TAXSTATUS</u>	Classification of owner taxable status (private taxable or exempt defined by MS Dept of Revenue)
31	State Name	<u>STNAME</u>	State name in standard abbreviation.
32	County Name	<u>CNTYNAME</u>	County name.
33	County Identifier	<u>CNTYFIPS</u>	County identifier from the Federal Information Processing Standards (FIPS).
34	State Identifier	<u>STFIPS</u>	State FIPS identifier.
35	State and County Identifier	<u>STCNTYFIPS</u>	
	Appraised Values		
36	Land Value	<u>LANDVAL</u>	
37	Improvement Value	<u>IMPROVVAL</u>	
38	Total Value	<u>TOTVAL</u>	
39	Land Use	<u>LANDUSE</u>	
40	Latitude	<u>LATDEC</u>	
41	Longitude	<u>LONDEC</u>	
42	Zoning	<u>ZONING</u>	
43	Legal description	<u>LegDescrip</u>	

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attribute information.

Attachment A

Task 3 – Metadata Development

Metadata is mandatory information about each land parcel database. Each land parcel database's metadata can be created, modified, and viewed. The title, type, source, author, latest changed date, thumbnail, and tags will be updated to the metadata. Additional information may be included, such as attributes, attribute descriptions, summaries, project descriptions, spatial coordinate system, recentness, limits on using/sharing the item and credits, etc. in accordance with FGDC databases requirements.

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attributes and Metadata information.

Task 4 – Maintenance procedures for annual updates

MGI will develop in house routines and processes for streamlining the annual update process for the 7 identified counties.

Task 5 – Updating gis.ms.gov (the MDEM website)

MGI will collaborate with appropriate county officials, MDEQ, and ITS to allow for access to Cadastral Data for the 7 identified counties through the MDEM website for public and private use and distribution depending on the sensitivity of the data.

Deliverables: Standardized Geodatabase (Feature Dataset, Polygon Feature Class, and Point Feature Class) with complete attributes and Metadata information served through gis.ms.gov (the MDEM website).