

# MS Microwave Service Towers 2024

## Shapefile



## Tags

Towers, CONUS, FCC, Communications, Microwave, HIFLD, HIFLD open, Microwave Service Towers

## Summary

This dataset represents Microwave Service Towers, which is a part of a communications system that uses a beam of radio waves in the microwave frequency range to transmit video, audio, or data between two locations, which can be from just a few feet or meters to several miles or kilometers apart. Data source: Federal Communications Commission Data and details are hosted by HIFLD as received from the data provider. For questions /feedback, please email [hifld@hq.dhs.gov](mailto:hifld@hq.dhs.gov)

## Description

This dataset represents Microwave Service Towers, which is a part of a communications system that uses a beam of radio waves in the microwave frequency range to transmit video, audio, or data between two locations, which can be from just a few feet or meters to several miles or kilometers apart. Data source: Federal Communications Commission Data and details are hosted by HIFLD as received from the data provider. For questions /feedback, please email [hifld@hq.dhs.gov](mailto:hifld@hq.dhs.gov),

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\*\*\*\* In April 2024, MARIS staff extracted the Mississippi portion of this dataset. They then projected the shapefile into MSTM projection. \*\*\*\*

## Credits

Wireless Telecommunications Bureau (WTB), HIFLD, MARIS

## Use limitations

There are no access and use limitations for this item.

## Extent

**West** -91.584367 **East** -88.176285  
**North** 35.002021 **South** 30.217092

## Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ▶

## Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE society, utilitiesCommunication

\* CONTENT TYPE Downloadable Data  
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

*Hide Topics and Keywords ▲*

## Citation ▶

TITLE MS Microwave Service Towers 2024

PRESENTATION FORMATS \* digital map

*Hide Citation ▲*

## Resource Details ▶

DATASET LANGUAGES \* English (UNITED STATES)

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.9.1.28388

### CREDITS

Wireless Telecommunications Bureau (WTB), HIFLD, MARIS

### ARCGIS ITEM PROPERTIES

\* NAME MS\_MicrowaveServiceTowers\_2024  
\* SIZE 0.038  
\* LOCATION file:///\\DESKTOP-TP9LNVL\F\$\DATA\HIFLD\_2024\00\_Utility\MS\_MicrowaveServiceTowers\_2024.shp  
\* ACCESS PROTOCOL Local Area Network

*Hide Resource Details ▲*

## Extents ▶

### EXTENT

GEOGRAPHIC EXTENT  
BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

- \* WEST LONGITUDE -91.584367
- \* EAST LONGITUDE -88.176285
- \* NORTH LATITUDE 35.002021
- \* SOUTH LATITUDE 30.217092
- \* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 332537.927842
- \* EAST LONGITUDE 643658.130443
- \* SOUTH LATITUDE 1048202.727014
- \* NORTH LATITUDE 1577472.887641
- \* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- \* TYPE Projected
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_North\_American\_1983
- \* PROJECTION NAD\_1983\_Mississippi\_TM
- \* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

- WELL-KNOWN IDENTIFIER 102609
- X ORIGIN -5122200
- Y ORIGIN -12297100
- XY SCALE 450339697.45066422
- Z ORIGIN -100000
- Z SCALE 10000
- M ORIGIN -100000
- M SCALE 10000
- XY TOLERANCE 0.001
- Z TOLERANCE 0.001
- M TOLERANCE 0.001
- HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3814

WELL-KNOWN TEXT

```
PROJCS["NAD_1983_Mississippi_TM",GEOGCS["GCS_North_American_1983",DATUM["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]
```

REFERENCE SYSTEM IDENTIFIER

- \* VALUE 3814
- \* CODESPACE EPSG
- \* VERSION 6.17.1(10.0.0)

[Hide Spatial Reference ▲](#)

## Spatial Data Properties ►

## VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

### GEOMETRIC OBJECTS

FEATURE CLASS NAME MS\_MicrowaveServiceTowers\_2024

\* OBJECT TYPE point

\* OBJECT COUNT 1430

*Hide Vector ▲*

## ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS\_MicrowaveServiceTowers\_2024

\* FEATURE TYPE Simple

\* GEOMETRY TYPE Point

\* HAS TOPOLOGY FALSE

\* FEATURE COUNT 1430

\* SPATIAL INDEX TRUE

\* LINEAR REFERENCING FALSE

*Hide ArcGIS Feature Class Properties ▲*

*Hide Spatial Data Properties ▲*

## Distribution ►

### DISTRIBUTION FORMAT

\* NAME Shapefile

VERSION 10.8.2

### TRANSFER OPTIONS

\* TRANSFER SIZE 0.038

*Hide Distribution ▲*

## Fields ►

### DETAILS FOR OBJECT MS\_MicrowaveServiceTowers\_2024 ►

\* TYPE Feature Class

\* ROW COUNT 1430

### FIELD FID ►

\* ALIAS FID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Sequential unique whole numbers that are automatically generated.

*Hide Field FID ▲*

FIELD Shape ►

\* ALIAS Shape

\* DATA TYPE Geometry

\* WIDTH 0

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Feature geometry.

\* DESCRIPTION SOURCE

Esri

\* DESCRIPTION OF VALUES

Coordinates defining the features.

*Hide Field Shape ▲*

FIELD LicID ►

\* ALIAS LicID

\* DATA TYPE Integer

\* WIDTH 10

\* PRECISION 10

\* SCALE 0

*Hide Field LicID ▲*

FIELD Licensee ►

\* ALIAS Licensee

\* DATA TYPE String

\* WIDTH 254

\* PRECISION 0

\* SCALE 0

*Hide Field Licensee ▲*

FIELD Callsign ►

- \* ALIAS Callsign
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field Callsign ▲*

FIELD LocNum ►

- \* ALIAS LocNum
- \* DATA TYPE Integer
- \* WIDTH 10
- \* PRECISION 10
- \* SCALE 0

*Hide Field LocNum ▲*

FIELD LatDeg ►

- \* ALIAS LatDeg
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LatDeg ▲*

FIELD LatMin ►

- \* ALIAS LatMin
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LatMin ▲*

FIELD LatSec ►

- \* ALIAS LatSec
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LatSec ▲*

FIELD LatDir ►

- \* ALIAS LatDir
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LatDir ▲*

FIELD LonDeg ►

- \* ALIAS LonDeg
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LonDeg ▲*

FIELD LonMin ►

- \* ALIAS LonMin
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LonMin ▲*

FIELD LonSec ►

- \* ALIAS LonSec
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field LonSec ▲*

FIELD LonDir ►

- \* ALIAS LonDir
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LonDir ▲*

FIELD LocAdd ►

- \* ALIAS LocAdd
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LocAdd ▲*

FIELD LocCity ►

- \* ALIAS LocCity
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LocCity ▲*

FIELD LocCounty ►

- \* ALIAS LocCounty
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LocCounty ▲*

FIELD LocState ►

- \* ALIAS LocState
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field LocState ▲*

FIELD Nepa ►

- \* ALIAS Nepa
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field Nepa ▲*

FIELD QZone ►



- \* ALIAS QZone
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field QZone ▲*

FIELD TowReg ▶

- \* ALIAS TowReg
- \* DATA TYPE Integer
- \* WIDTH 10
- \* PRECISION 10
- \* SCALE 0

*Hide Field TowReg ▲*

FIELD SupStruc ▶

- \* ALIAS SupStruc
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field SupStruc ▲*

FIELD AllStruc ▶

- \* ALIAS AllStruc
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

*Hide Field AllStruc ▲*

FIELD StructType ▶

- \* ALIAS StructType
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

*Hide Field StructType ▲*

FIELD LicStatus ▶

- \* ALIAS LicStatus
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

[Hide Field LicStatus ▲](#)

FIELD latdec ►

- \* ALIAS latdec
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

[Hide Field latdec ▲](#)

FIELD londec ►

- \* ALIAS londec
- \* DATA TYPE Double
- \* WIDTH 19
- \* PRECISION 0
- \* SCALE 0

[Hide Field londec ▲](#)

FIELD url ►

- \* ALIAS url
- \* DATA TYPE String
- \* WIDTH 254
- \* PRECISION 0
- \* SCALE 0

[Hide Field url ▲](#)

[Hide Details for object MS\\_MicrowaveServiceTowers\\_2024 ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

- \* METADATA LANGUAGE English (UNITED STATES)
- \* METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA \* dataset  
SCOPE NAME \* dataset

\* LAST UPDATE 2024-04-11

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-04-11 07:40:30

LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-04-11 74:75:10

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2024-04-11 07:40:57

[Hide Metadata Details ▲](#)

## Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

## FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION

ENTITY TYPE

ENTITY TYPE LABEL MS\_MicrowaveServiceTowers\_2024

ATTRIBUTE

ATTRIBUTE LABEL FID

ATTRIBUTE DEFINITION

Internal feature number.

ATTRIBUTE DEFINITION SOURCE Esri

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN

Sequential unique whole numbers that are automatically generated.

ATTRIBUTE

ATTRIBUTE LABEL Shape

ATTRIBUTE DEFINITION

Feature geometry.

ATTRIBUTE DEFINITION SOURCE Esri

ATTRIBUTE DOMAIN VALUES

UNREPRESENTABLE DOMAIN

Coordinates defining the features.

ATTRIBUTE

ATTRIBUTE LABEL LicID

ATTRIBUTE

ATTRIBUTE LABEL Licensee

ATTRIBUTE

ATTRIBUTE LABEL Callsign

ATTRIBUTE  
ATTRIBUTE LABEL LocNum

ATTRIBUTE  
ATTRIBUTE LABEL LatDeg

ATTRIBUTE  
ATTRIBUTE LABEL LatMin

ATTRIBUTE  
ATTRIBUTE LABEL LatSec

ATTRIBUTE  
ATTRIBUTE LABEL LatDir

ATTRIBUTE  
ATTRIBUTE LABEL LonDeg

ATTRIBUTE  
ATTRIBUTE LABEL LonMin

ATTRIBUTE  
ATTRIBUTE LABEL LonSec

ATTRIBUTE  
ATTRIBUTE LABEL LonDir

ATTRIBUTE  
ATTRIBUTE LABEL LocAdd

ATTRIBUTE  
ATTRIBUTE LABEL LocCity

ATTRIBUTE  
ATTRIBUTE LABEL LocCounty

ATTRIBUTE  
ATTRIBUTE LABEL LocState

ATTRIBUTE  
ATTRIBUTE LABEL Nepa

ATTRIBUTE  
ATTRIBUTE LABEL QZone

ATTRIBUTE  
ATTRIBUTE LABEL TowReg

ATTRIBUTE  
ATTRIBUTE LABEL SupStruc

ATTRIBUTE  
ATTRIBUTE LABEL AllStruc

ATTRIBUTE  
ATTRIBUTE LABEL StrucType

ATTRIBUTE LABEL LicStatus

ATTRIBUTE

ATTRIBUTE LABEL latdec

ATTRIBUTE

ATTRIBUTE LABEL londec

ATTRIBUTE

ATTRIBUTE LABEL url

ATTRIBUTE

*Hide Entities and Attributes ▲*