Farmland Sales

*API Documentation*

*2020*

# Service Overview

Ag-Analytics® Farmland Sales API provides users with easy and fast access to filter and find land for sale, complete with the sales and geographic data components to get a detailed description of that land’s value. The data of this service is originally provided by Farmland Finder(<https://www.farmlandfinder.com>). Each response item has a full description of the entire sale/listing information. Multiple parcel/land records can belong to one single listing. In the ‘parcels’ parameter in listing, each parcel record gives the detailed description of a certain land/parcel itself.

This API uses POST request with a subscription key. The examples from the API displayed as figure below. The API responses contain the shapes/features in WKT(Well-Known Text) and GeoJSON which can be displayed in multiple platforms or used for further geospatial analysis.

A screenshot of a computer

Description automatically generated

Farmland Sales Response Example

# POST Request

Header Parameters Execute Type: POST

content-type: "application/json”

## Request Parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** | **Data Type** | **Required**? | **Default** | **Options** | **Description** |
| **State** | Text | Yes | - | - | State of interest. Title cased.  Ex. “Michigan” or “Ohio” |
| **County** | Text | No | - | - | County of interest. Title cased.  Ex. “Osceola” or “Polk”  *Note: This parameter will be valid only if the State parameter is provided* |
| **Bounding\_box** | Text | Yes | - | GeoJSON | Area of interest in GeoJSON format.  *Note: Please provide at least one parameter selected from ‘State’, ‘County’, and ‘Bounding\_box’* |
| **Status** | Text | Yes | - | ‘Sold’, ‘For Sale’, ‘Expired Listing’ | Sale Condition of the property. |
| **StartDate** | Text | Conditional | - | 'yyyy-mm-dd' | Searching starting date of the property Sale Date. In format 'yyyy-mm-dd'  *Note: Required only if Status is ‘Sold’* |
| **EndDate** | Integer | Conditional | - | 'yyyy-mm-dd' | Searching end date of the property Sale Date. In format 'yyyy-mm-dd'  *Note: Required only if Status is ‘Sold’* |

## Response Parameters

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Type** | **Description** |
| **status** | String | Status of the API call. (“SUCCESS”,” FAILURE”,”WARNING”) |
| **msg** | String |  |
| **Listing Parameter** | **Type** | **Description** |
| **Listing\_id** | String | The unique ID for each listing(sales). |
| **Entry\_Updated** | Date | The date of the listing(sales) information has been updated |
| **Avg\_CSR2** | String | the average The Iowa Corn Suitability Rating(Soil Productivity Index) |
| **CRP** | String | If the property joined the Conservation Reserve Program.(‘Yes’ or ‘No’) |
| **CRP\_Acres** | Float | The CRP acres |
| **Total\_Acres** | Float | The total acres of the entire sale |
| **Tillable\_Acres** | Float | The tillable acres of the sale |
| **Percent\_Tillable** | Float | The percent tillable area |
| **Sale\_Price** | Float | The total sale price of the sale record |
| **Price\_Acre** | Float | The price per acre of the sale record |
| **Status** | String | One of the following values: "For Sale", "Listing Expired", "Sold" |
| **Sale\_Condition** | String | One of the following values: "Auction", "Listing" |
| **Listing\_Agent** | String | The listing agent name |
| **Broker\_URL** | String | The URL link to the broker listing webpage as a string |
| **Buyer** | String | The buyer name as a string |
| **Sale\_Date** | String | The sale date string in YYYY-MM-DD format. (When the parcel is still listing, the attribute will be Null |
| **Taxes\_total** | Float | Taxes for the sale as a float |
| **Assessed\_Land** | String | If the land/parcel has been assessed |
| **Parcel Parameter** | **Type** | **Description** |
| **Parcel\_ID** | String | The unique sale id for each parcel as a string |
| **Parcel** | String | Index of the parcel in one listing(transaction). |
| **Shape** | String | The boundary of the parcel/property in Well Known Text type |
| **GeoJSON** | String | The boundary of the parcel/property in GeoJSON type |
| **Acres** | Float | Area of the parcel |
| **State** | String | The state where the parcel/property locates in. |
| **County** | String | The county where the parcel/property locates in. |
| **lat\_center** | Float | The latitudinal center of the parcel/property as a float value |
| **lng\_center** | Float | The longitudinal center of the parcel/property as a float value |
| **range** | String | The range as a string (ex: 26W - always include E or W) |
| **sect** | String | The section as string (ex: 17) |
| **twnshp** | String | The township as a string (ex: 78N - always include N or S) |
| **county\_name** | String | The county name as a string (Title cased - for ex: Osceola, Polk, etc.) |
| **state\_name** | String | The state name as a string (Title cased - for ex: Michigan) |
| **STATEFP** | String | The FIPS to state level as a string |
| **FIPS** | String | The FIPS to county level as a string |

# Appendix

### **Figure 1** – Shape Example, GeoJSON

### **Figure 2** – POST Request Example

### **Figure 3** – POST Response Example

Figure 1.

*Shape Example - GeoJSON*

'{"type":"Feature","properties":{},"geometry":{"type":"Polygon","coordinates":[[[-88.6,47.04],[-88.54,47.04],[-88.54,47.1],[-88.6,47.1],[-88.6,47.04]]]}}'

Figure 2

*POST Request Example – application/json*

{

'State': "Michigan",

'County' : "Houghton",

'Bounding\_Box': '{"type":"Feature","properties":{},"geometry":{"type":"Polygon","coordinates":[[[-88.6,47.04],[-88.54,47.04],[-88.54,47.1],[-88.6,47.1],[-88.6,47.04]]]}}',

'StartDate': '2019-08-08',

'EndDate': '2020-01-01',

'Status' : 'Sold'

}

Figure 3

*POST Response – application/json*

|  |
| --- |
| {  'Listing\_id': '4A7A9075-BFF8-42C4-BE12-1D7C8778794F',  'Entry\_Updated':'0019-08-01 00:00:00',  'Avg\_CSR2':10.0952,  'CRP':None,  'Total\_Acres':1327.0,  'Tillable\_Acres':1204.0,  'Percent\_Tillable':90.0,  'CRP\_Acres':None,  'Sale\_Price':'600000.0000',  'Price\_Acre':'6051.0000',  'Status':'For Sale',  'Sale\_Condition':'Listing',  'Listing\_Agent':'Michigan Land Brokers',  'Buyer':None,  'Sale\_Date':None,  'Taxes\_total':None,  'Assessed\_Land':None,  'Broker\_URL':'http://www.google.com'  'parcels':[{  'Parcel\_ID': 'sdfahdkfhlala87r9238',  'Parcel': '1',  'Acres': 20.1,  'Shape': 'POLYGON((-88.6 47.04,-88.54 47.04,-88.54 47.1,-88.6 47.1,-88.6 47.04))',  'GeoJSON': '{"type":"Feature","properties":{},"geometry":{"type":"Polygon","coordinates":[[[-88.95973205566405,46.68995749641134],[-88.76678466796875,46.68995749641134],[-88.76678466796875,46.7981792512332],[-88.95973205566405,46.7981792512332],[-88.95973205566405,46.68995749641134]]]}}'  'State':'Michigan',  'County':'Houghton',  'lat\_center':47.04,  'lng\_center':- 88.6,  'range':'34W',  'sect':'26',  'twnshp':'54N',  'county\_name':'Houghton',  'state\_name':'Michigan',  'STATEFP':'26',  'FIPS':'26061'  }]  } |

# Citation



**Spatial Reference Information:**

Universal Transverse Mercator (UTM) Dominant Zone, North American Datum 1983

Please contact **support@analytics.ag**, **josh@ag-analytics.org**, or **woodardjoshua@gmail.com** with any comments or questions.