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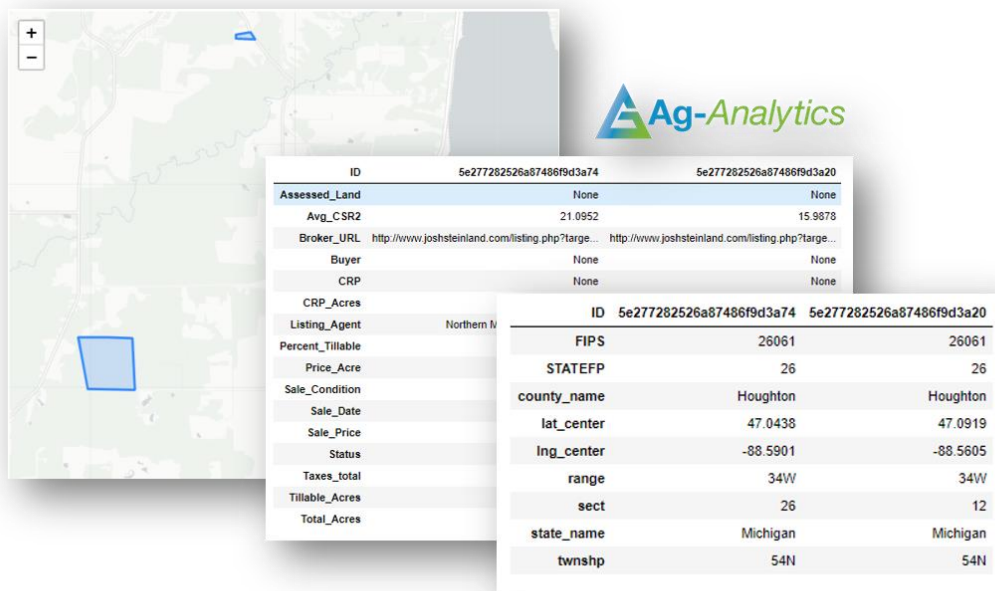
Farmland Sales

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.



Farmland Sales Response Example



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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" <i>Note: This parameter will be valid only if the State parameter is provided</i>
Bounding_box	Text	Yes	-	GeoJSON	Area of interest in GeoJSON format. <i>Note: Please provide at least one parameter selected from 'State', 'County', and 'Bounding_box'</i>
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' <i>Note: Required only if Status is 'Sold'</i>
EndDate	Integer	Conditional	-	'yyyy-mm-dd'	Searching end date of the property Sale Date. In format 'yyyy-mm-dd' <i>Note: Required only if Status is 'Sold'</i>



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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



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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)
townshp	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



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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'
}
```



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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',
    'townshp': '54N',
    'county_name': 'Houghton',
    'state_name': 'Michigan',
    'STATEFP': '26',
    'FIPS': '26061'
  }]
}
```



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Citation



Spatial Reference Information:

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

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