

# FARMLAND SALES

API Documentation 2020

[API Portal](#)

[GitHub Repo](#)

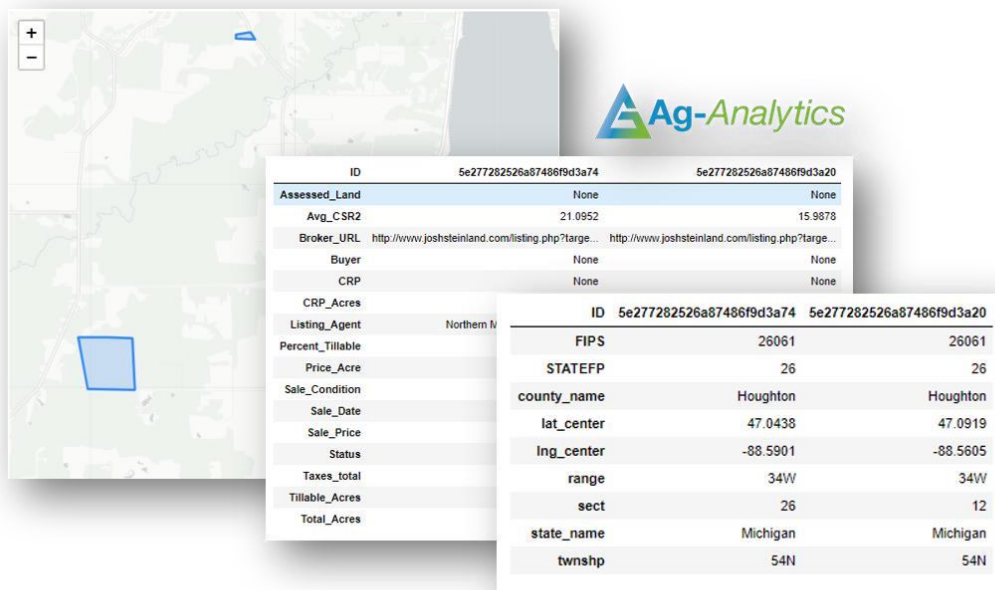
[Jupyter Notebook](#)

[Purchase](#)

## 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](#). 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 API data*

## POST/GET Request

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'
}
```

### Header Parameters

**content-type:** "application/json"

**Ocp-Apim-Subscription-Key:** Subscription keys are given upon purchase [Purchase APIs](#) 

### Request Parameters

Parameter	Data Type	Required?	Default	Options	Description
<b>State</b>	Text	Yes	--	Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin	State of interest. Title cased. Ex. "Michigan" or "Ohio"
<b>County</b>	Text	No	--	Counties in the above states	County of interest. Title cased. Ex. "Osceola" or "Polk" <i>Note: This parameter will be valid only if the State parameter is provided</i>
<b>Bounding_box</b>	Text	Yes	--	GeoJSON	Area of interest in GeoJSON format. Note: Please provide at least one parameter selected from 'State', 'County', and 'Bounding_box'
<b>Status</b>	Text	Conditional	--	'Sold', 'For Sale', 'Expired Listing'	Sale Condition of the property.



<b>StartDate</b>	Integer	Conditional	--	'yyyy-mm-dd'	Searching starting date of the property Sale Date. In format 'yyyy-mm-dd' Note: Required only if Status is 'Sold'
<b>EndDate</b>	Integer	Yes	--	'yyyy-mm-dd'	Searching end date of the property Sale Date. In format 'yyyy-mm-dd' Note: Required only if Status is 'Sold'

## POST/GET Response

*POST Response Example – 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': 'sdfahdkfhla87r9238',
    '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',
    'twshp':'54N',
    'county_name':'Houghton',
    'state_name':'Michigan',
    'STATEFP':'26',
    'FIPS':'26061'
  }]
}
```



## Response Parameters

Parameter	Type	Description
<b>status</b>	String	Status of the API call. ("SUCCESS"," FAILURE","WARNING")
<b>msg</b>	String	--
Listing Parameter	Type	Description
<b>Listing_id</b>	String	The unique ID for each listing(sales).
<b>Entry_Updated</b>	Date	The date of the listing(sales) information has been updated
<b>Avg_CSR2</b>	String	The average The Iowa Corn Suitability Rating(Soil Productivity Index)
<b>CRP</b>	String	If the property joined the Conservation Reserve Program.(‘Yes’ or ‘No’)
<b>CRP_Acres</b>	Float	The CRP acres
<b>Total_Acres</b>	Float	The total acres of the entire sale
<b>Tillable_Acres</b>	Float	The tillable acres of the sale
<b>Percent_Tillable</b>	Float	The percent tillable area
<b>Sale_Price</b>	Float	The total sale price of the sale record
<b>Price_Acre</b>	Float	The price per acre of the sale record
<b>Status</b>	String	One of the following values: "For Sale", "Listing Expired", "Sold"
<b>Sale_Condition</b>	String	One of the following values: "Auction", "Listing"
<b>Listing_Agent</b>	String	The listing agent name
<b>Broker_URL</b>	String	The URL link to the broker listing webpage as a string
<b>Buyer</b>	String	The buyer name as a string
<b>Sale_Date</b>	String	The sale date string in YYYY-MM-DD format. (When the parcel is still listing, the attribute will be Null)
<b>Taxes_total</b>	Float	Taxes for the sale as a float
<b>Assessed_Land</b>	String	If the land/parcel has been assessed
Parcel Parameter	Type	Description
<b>Parcel_ID</b>	String	The unique sale id for each parcel as a string
<b>Parcel</b>	String	Index of the parcel in one listing(transaction).
<b>Shape</b>	String	The boundary of the parcel/property in Well Known Text type
<b>GeoJSON</b>	String	The boundary of the parcel/property in GeoJSON type



<b>Acres</b>	Float	Area of the parcel
<b>State</b>	String	The state where the parcel/property locates in.
<b>County</b>	String	The county where the parcel/property locates in.
<b>lat_center</b>	Float	The latitudinal center of the parcel/property as a float value
<b>lng_center</b>	Float	The longitudinal center of the parcel/property as a float value
<b>range</b>	String	The range as a string (ex: 26W - always include E or W)
<b>sect</b>	String	The section as string (ex: 17)
<b>twnshp</b>	String	The township as a string (ex: 78N - always include N or S)
<b>county_name</b>	String	The county name as a string (Title cased - for ex: Osceola, Polk, etc.)
<b>state_name</b>	String	The state name as a string (Title cased - for ex: Michigan)
<b>STATEFP</b>	String	The FIPS to state level as a string
<b>FIPS</b>	String	The FIPS to county level as a string



Please contact [support@analytics.ag](mailto:support@analytics.ag) or [josh@ag-analytics.org](mailto:josh@ag-analytics.org) with any comments or questions.

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