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# Change History

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<th>Change</th>
<th>Version</th>
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<td>Initial Draft</td>
<td>1.0</td>
</tr>
<tr>
<td>17 APR 18</td>
<td>Added Livestock Mandatory Price Reporting Web Service to Excel Section</td>
<td>1.1</td>
</tr>
<tr>
<td>16 APR 19</td>
<td>Updates to document to reference API v1.1</td>
<td>1.2</td>
</tr>
<tr>
<td>29 AUG 19</td>
<td>Corrected spelling error on page 5 and clarified where API Key goes.</td>
<td>1.3</td>
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1 MyMarketNews API To Excel Overview

This overview provides instructions to basic Excel users on how to connect to the MyMarketNews Application Programming Interface (API) and access the desired data. This document goes step by step.

1.1 Purpose of MyMarketNews API to Excel Help Guide

Both Microsoft Excel 2016, and 2013 (with the optional Power Query Tab installed) support data calls to web based API. The Microsoft 2013 Power Query Tab can be downloaded [here](https://www.microsoft.com/en-us/download/details.aspx?id=39379). In Excel 2016, the Tab is called “Data”. These instructions show how to link data sources to the MyMarketNews API from Excel file and automatically refresh to pull the latest data.

![Figure 1 MS Excel Data Tab Toolbar](image)

1.2 Document Audience

This overview was written to assist basic Excel users in configuring their Microsoft Excel 2013 or 2016 to pull MyMarketNews data automatically into their own environment or network.

2 Usage

In order to know specifically what reports are available, it is recommended that a Table of Contents be pulled from the MyMarketNews API before beginning your query.

2.1 Starting a new MyMarketNews API request

To start a new MyMarketNews API connection, click “From Web” on the Data Tab in Excel.

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Enter the following URL to retrieve the table of contents from the MyMarketNews API: https://marsapi.ams.usda.gov/services/v1.1/reports. Click “OK”. The screen will pause for a few seconds while the request is made to the MyMarketNews API. The screen will refresh.

The first time a Data Source is configured to access the MyMarketNews API, a key is required. Select the “Basic” Tab and enter the MyMarketNews API key that is associated with your E-Auth account into the User name field. Each registered user has a personal API key that can be found at My Market News in the user profile. Click “Connect”.

2 https://mymarketnews.ams.usda.gov
The page will refresh and the Query Editor will launch.

Figure 4 Microsoft Query Editor
Place your mouse of the column heading titled “List”. Right click your mouse and select “Copy Entire List”

Figure 5 Click Copy Entire List

Click the “To Table” button

Figure 6 Click To Table Convert
A menu will appear. Click “OK”

![Figure 7 To Table Selection Menu](image)

The screen will refresh. There will be an icon to the right of “Column1”.

![Figure 8 Column Selection](image)
Click the “Double Arrow” icon. The screen will refresh. Click “OK”.

![Figure 9 Column Selection Options](image)

The screen will refresh again and show the following:

![Figure 10 All Columns Shown](image)
Click the “Close and Load” button. This will load all data into a new Excel worksheet.

*Figure 11 Close and Load Button*
The worksheet will pause for a few second while the data is pulled from the MyMarketNews API. The screen will refresh and look like:

![Excel Worksheet](image)

*Figure 12 Columns of Data Shown In Excel Worksheet*
Now that we have a complete list of all available reports, you can now pull a specific report. Let’s go ahead and pull the “Cold Storage Weekly Report”.

### 2.2 Pulling a specific report from the MyMarketNews API

Click on a new Worksheet in the Excel file. Click “From Web” on the Data Tab. Using the example on the MyMarketNews website, we will use this string (https://marsapi.ams.usda.gov/services/v1.1/reports/1095). The 1095 is Slug ID for the Cold Storage Weekly Report. If you wish to pull a different report, replace the Slug ID with the desired report number. Click “OK”.

![Figure 13 From Web Input Form](image)

This screen will show, while all the data is pulled:

![Figure 14 Connecting Status Menu](image)
The Query Editor menu will display:

![Microsoft Query Editor Displayed](image)

*Figure 15 Microsoft Query Editor Displayed*

Place your mouse on the column titled “List” in green and right click. Select “Drill Down”.

![Selection of Drill Down](image)

*Figure 16 Selection of Drill Down*
The screen will refresh and display as below.

![Image of Transform Tab of Query Editor]

*Figure 17 Transform Tab of Query Editor*
Right click your mouse over the Column titled “List” and select “To Table”

![Transform Tab Copy Entire List Option](image1.png)

*Figure 18 Transform Tab "Copy Entire List" Option*

Click the “To Table” button

![To Table Convert Button](image2.png)

*Figure 19 To Table Convert Button*
A menu will appear. Click “OK”

![Figure 20 “To Table” Menu](image)

The screen will refresh and display as below.

![Figure 21 Query Editor with data shown](image)
The screen will refresh. There will be an icon to the right of “Column1”. Click the “Double Arrow” icon. The screen will refresh. Click “Ok”.

Figure 22 Click Double Arrow to expand
The screen will refresh and show. Click “Ok”. If you want to exclude columns from importing, de-select the columns here and click “Ok”

*Figure 23 Column Selection Menu*
The screen will refresh and appear like this.

![Excel Data Screen](image)

*Figure 24 Columns of Data Shown*

Select “Close and Load” button.

![Close & Load Button](image)

The screen will refresh and appear as below. You have successfully pulled data from the MyMarketNews API. You are free to manipulate, modify, or delete data here. This is your local...
Figure 25 Report Data Displayed in New Sheet

At any time, if you want to refresh the data, click the “Refresh” button. The Excel file will automatically pull the data again from the MyMarketNews API.
3 Livestock Mandatory Price Reporting System Web Service to Excel

3.1 Overview


This web service is dated, has limited filtering capabilities, and only offers XML data extraction. It is expected that in 2020, LMPRS data will be available in MyMarketNews. Once on MyMarketNews, our customers can pull this data through the API in a Json format.

This guide explains how to create query strings using the URL to request data and provides several examples on how to tailor the data to the desired results. The examples use the LM_CT100 5 Area Daily Weight Average Direct Slaughter Cattle – Negotiated report, but these instructions apply to any LMPRS report.

3.2 Implementation

By referencing the Help Guide ([https://mpr.ams.usda.gov/mpr/webServiceGuide.pdf](https://mpr.ams.usda.gov/mpr/webServiceGuide.pdf)), there are several working examples to pull from. Users are free to tweak the URL to the data query they desire.

The URL for pulling “LM_CT100, 5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated” for data between 01/08/2018 and 01/12/2018, below is:

[https://mpr.datamart.ams.usda.gov/ws/report/v1/cattle/LM_CT100?filter={"filters": [{"fieldName":"Report%20date","operatorType":"BETWEEN","values": ["01/08/2018","01/12/2018"]}]}

Select File >> Save As
Figure 26 LMPRS Data shown in XML format

The filename will populate with your selected data set. Save to a local location. Select “Save”.

Figure 27 Save XML File down to your local machine

Open Microsoft Excel with a blank Worksheet.

Figure 28 Excel with blank worksheet
Select File >> Open >> Browse >> Select XML file. Select Open.

Figure 29 Select XML file

A menu will appear. Leave the default selection and select “Ok”.

Figure 30 Leave default selection and select OK

Data will automatically import and display as below:
Figure 31 Imported XML Data showing.

The import of LMPRS data into the spreadsheet is static. It is not dynamically connected to LMPRS, as is the MyMarketNews API is.

The AMS team is working to incorporate LMPRS data into the MyMarketNews API so that in the future, users will be able to have both voluntary and mandatory in one location. This tie in should be completed before the end of 2018.