United States Department of Agriculture (USDA)
Agricultural Marketing Service (AMS)

Livestock Mandatory Price Reporting (LMPR), Dairy Products Mandatory Reporting Program (DPMRP) & Federal Milk Marketing Orders (FMMOS) Application Programming Interface (API) User Guide, v2.3

U.S. Department of Agriculture
Agricultural Marketing Service
1400 Independence Avenue SW
Washington DC 20250

December 2020

Table of Contents

Change History

Date	Change	Version
06 APR 20	Initial Draft	1.0
07 APR 20	Updated to include examples for “AllSections”	1.1
29 APR 20	Section added to help identify the correct Section names	1.2
06 MAY 20	Includes updated Dairy examples, brief discussion on parameters, and an explanation for using Excel	1.3
08 MAY 20	Added video link that explains using Excel Data Query “parameters” to make is easier to query dynamically. Add clarification on O365 in Section 2.4	1.4
01 JUN 20	Added Section 1.3 Record Limit clarification statements.	1.5
02 JUN 20	Added Section 1.4 offering clarification on “Report_Date” and “Report_End_Date”	1.6
10 JUN 20	Updates to API to support a between clause for “Published_Date”	1.7
25 JUN 20	Updates to API to support using multiple variables together such as Report Year and Report Month	1.8
27 JUL 20	Updates made to Section 2.4 regarding Microsoft Excel 2016, (32 bit) versions.	1.9
13 AUG 20	Updated to include examples for “Final Prices” for the *National Dairy Products Sales Report*	2.0
4 SEP 20	Updated *National Dairy Products Sales Report* examples	2.1
10 NOV 20	Added two new reports to the list of FMMOS reports in Section 3.3.2	2.2
21 DEC 20	Added new examples of enhanced API features related to “Corrections” under Section 2.4. Examples are provided under Section 3.4.	2.3

1 Overview

1.1 Purpose of LMPR & DPMRP API

The LMPR & DPMRP & FMMOS API allows public access to Livestock Mandatory Price Reporting (LMPR), Dairy Products Mandatory Reporting Program (DPMRP), and Federal Milk Marketing Orders (FMMOS) market report information.

The output of the LMPR API is JavaScript Object Notation (JSON). JSON is an open standard format and data interchange format. This file format uses human-readable text to store and transmit data objects consisting of attribute–value pairs and array data types (or any other serializable value). It is a very common data format and easily consumable in various applications.

1.2 Overuse

Overloading the LMPR API with high frequency automated requests unnecessarily taxes computing resources. High frequency requests consume all the network bandwidth, create website performance issues often causing the website to crash, and reduce data availability to other customers attempting to reach the site. To mitigate overloading the systems, AMS will temporarily block IP addresses found taxing the systems with high frequency requests.

If you find DataMart unavailable, or notice performance issues on your LMPR API request, it is possible your IP address has been temporarily blocked. Often these high frequency requests occur due to simple coding errors. Please email Wash.LPGMN@ams.usda.gov for assistance restoring your access.

1.3 Record Limit

Both the LMR and MyMarketNews API's limit data calls record results to 100,000 per request. This is done so as to not overwhelm the system and ensure that the systems remain operational, responsive and available to all parties.

1.4 "Report Date" vs. "Report End Date"

AMS would like to make users aware that certain reports that, since inception, have slightly different "Report Date" offerings. Certain Summary reports may not offer "Report Date", but will offer "Report End Date". Examples of this would be in, but not limited to, are LM_CT106, LM_CT109, & LM_CT168. Pending future budgetary conditions, AMS may be able to work towards standardizing this, but it is not in the immediate future. AMS recommends checking the "Summary" section in DataMart, LMR Web Service XML or LMR API to determine if the report uses "Report Date" or "Report End Date".

1.5 Document Audience

This document is technical in nature. This document was written to assist technical support staff in configuring LMPR API to pull data into their own environment or network. This document contains technical information and is not intended for non-technical audience(s).

1.6 Definitions

Abbreviation	Definition
AMS	Agricultural Marketing Service
DPMRP	Dairy Product Mandatory Reporting Program
FMMOS	Federal Milk Marketing Order Statistics
HTTPS	Hypertext Transfer Protocol Secure
JSON	JavaScript Object Notation
LPGMN	Livestock, Poultry, and Grain Market News
LMPR	Livestock Mandatory Price Reporting
MN	Market News
REST	Representational State Transfer
URL	Uniform Resource Locator
USDA	United States Department of Agriculture

2 Design

2.1 Goals

The LMPR API is designed to meet these goals:

- Simple
- Lightweight
- Flexible
- Intuitive
- Extendable
- Integration available
- Minimal development effort required
- Structurally predictable
- Consumable

Every effort has been made to ensure the LMPR API works in the same fashion as the MyMarketNews API; however the LMPR data structure is different than MyMarketNews. LMPR has a slightly different underlying database structure than MyMarketNews. These differences may show themselves in LMPR API request that yield slightly different data set

results.

2.2 Implementation

The LMPR API does not require a user key like the MyMarketNews API requires. User request are unrestricted with no limit on record counts or restrictions.

Market News will monitor the usage of the LMPR API for abuse. If the system shows excessive taxation where other user request are being affected, LPGMN will move to limit, restrict, or block abusive user request.

The LMPR API is set to Central Standard Time (CST) time zone. Standard and daylight time rules apply.

2.3 Important Note

The LMPR API offers access to the same data set that is available at https://mpr.datamart.ams.usda.gov/ and the LMPR Web Service. If the report is not on the DataMart website or in the current Web Service, then it is not available via the LMPR API.

LPGMN uses both Postman and Microsoft Excel to show data sample in this User Guide. LPGMN does not endorse either product but references them to aid in articulating expected results.

Before creating API requests either in Postman or Excel, there are few filter parameter standards that a data user must know. First a common way to limit the data received from your API request is limiting it by a time threshold. The most common variables used to limit your data by time are report_date, report_year and report month. To add this to your request use the following syntax:

?q=time variable=value (e.g. ?q=report_year=2018 or ?q= report_date=09/15/2017)

If you want to limit your API request to a range of values use a colon in the value portion of the parameter (e.g. ?q=report_year=2012:2014).

There are two other useful parameters that are commonly used for API requests. The first is the &sort=variable (e.g. &sort=report_date). This sorts the results of your API request based on the variable you supply in the &sort parameter. The second is the &allSections=True parameter. Almost all the reports that use the LMPR API have different sections to the report. You can use your API request to pull a certain section of the report or use the &all Sections=True parameter to pull all sections of the report at one time. There are helpful examples later in this documentation that illustrate how to use both the &sort= and the &allSections=True parameters.

2.4 Corrections

In late December 2020, the LMR API introduced support for identifying and consuming Report Corrections. Additionally, enhanced syntax was introduced that allows for consuming X amount of days of data and X amount of a particular report. Samples of that syntax is listed in Examples section titled “Examples of Corrections”

Users now have the abilty to:

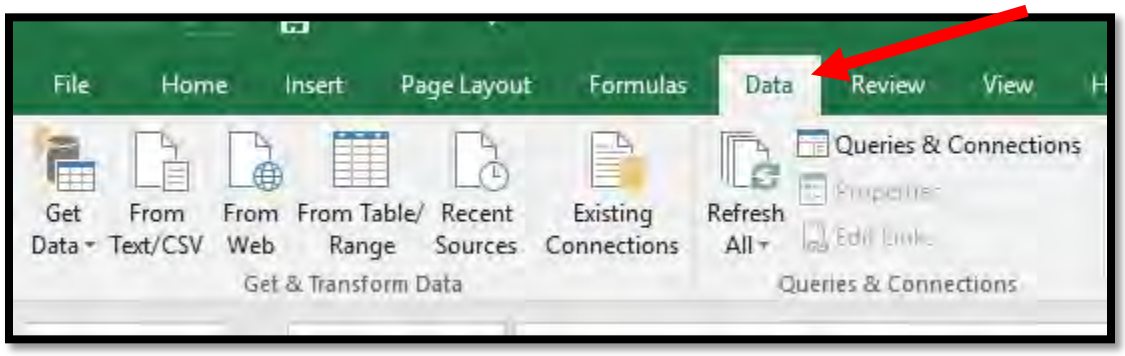
1. List reports that are “Correction”
2. List reports that are “Correction” since X amount of days.
3. List reports in the last X amount of days.
4. List X amount of a particular report.

2.5 Using Excel for an API request

Both Microsoft Excel 2016 (64 bit), 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).

Note: Users who have Office 365 may have slightly different menus or slighty different steps than the ones shown below.

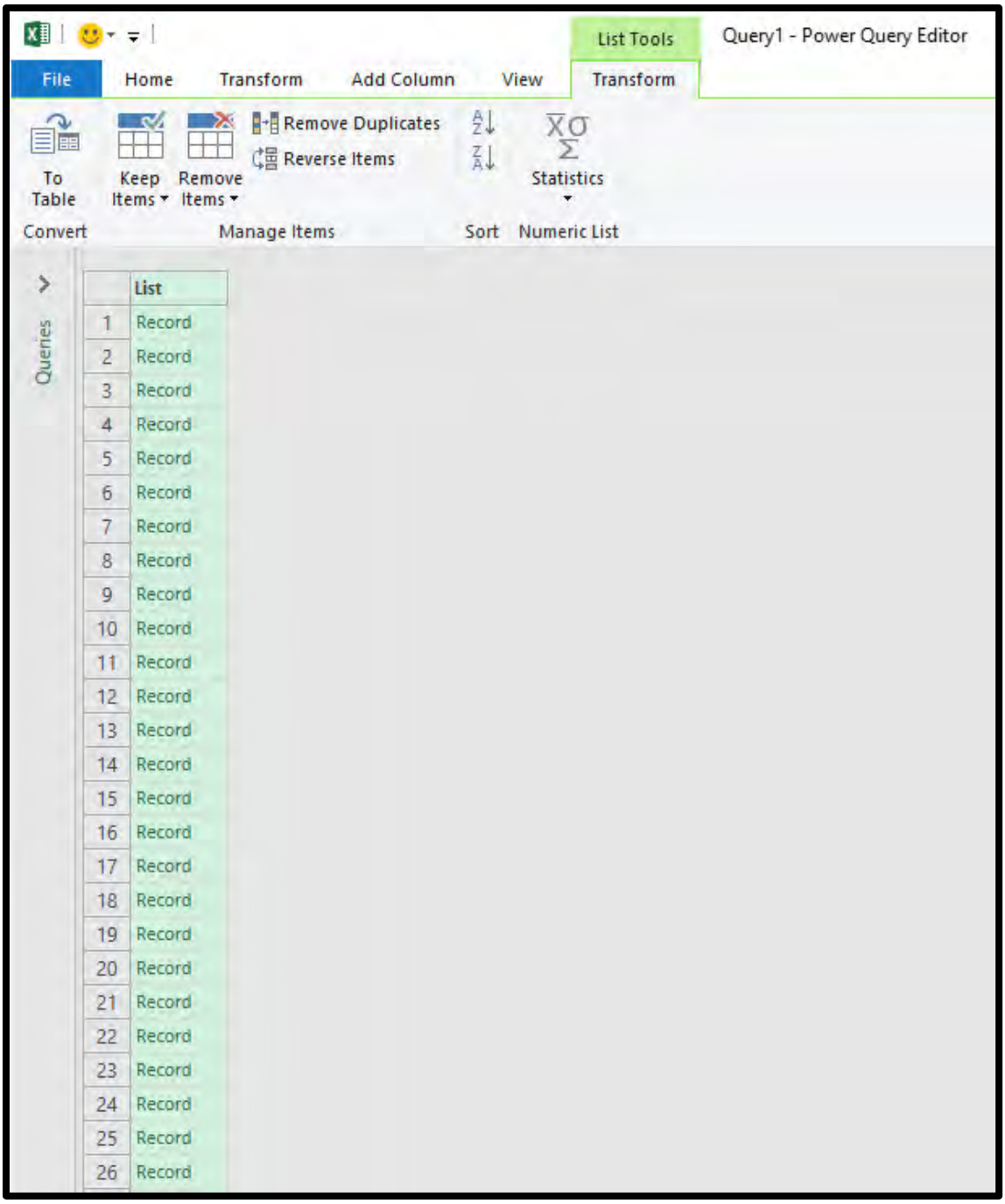
In Excel 2016, the Tab is called “Data”. By following the instructions included in this document, you will be creating linked data sources to the LMR API from an Excel file. Clicking the “Refresh” button automatically connects to the LMR API and pulls the latest publicially available data.



To start a LMR API connection, click “From Web” on the Data Tab. For Microsoft Excel 2016 (32 bit), users should select “Get Data” >> “From Other Sources” >> From Web.

Enter the URL for the report you would like to get. For this example we will pull the data for the Table of Contents (https://mpr.datamart.ams.usda.gov/services/v1.1/reports/). Click “Ok”. The screen will pause for a few seconds while the request is made to the LMR API. The screen will refresh.

The page will refresh, and the Query Editor will launch.


List Tools
Query1 - Power Query Editor
File
Home
Transform
Add Column
View
Transform
To Table
Keep Items
Remove Items
Remove Duplicates
Reverse Items
Statistics
Convert
Manage Items
Sort
Numeric List
Queries
List
1 Record
2 Record
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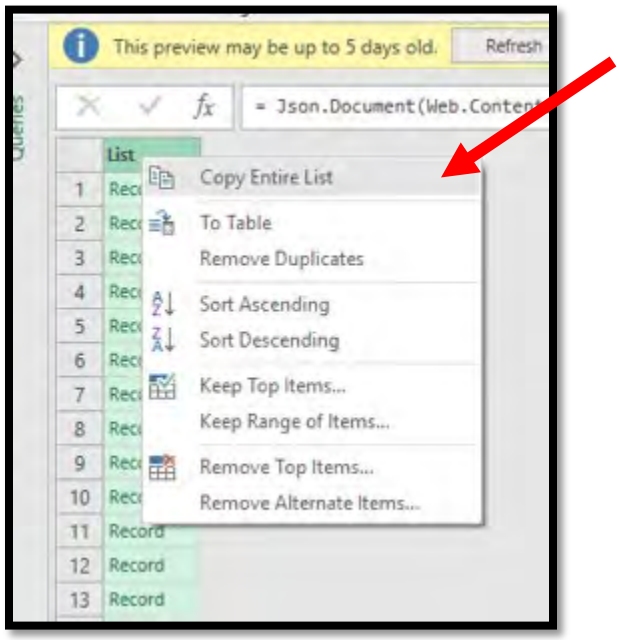
Place your mouse of the column heading titled “List”. Right click your mouse and select “Copy Entire List”

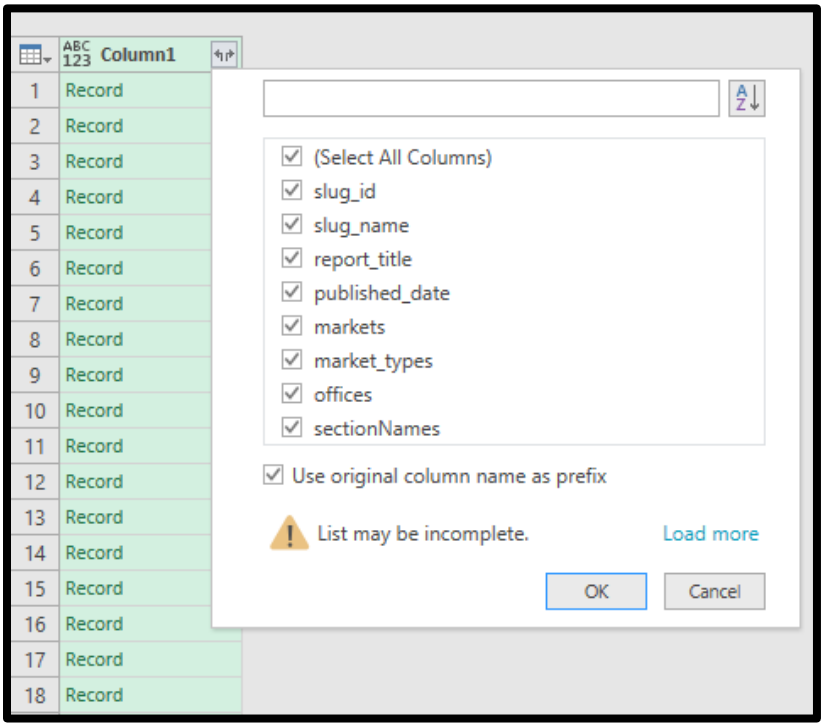


Click the “To Table” button

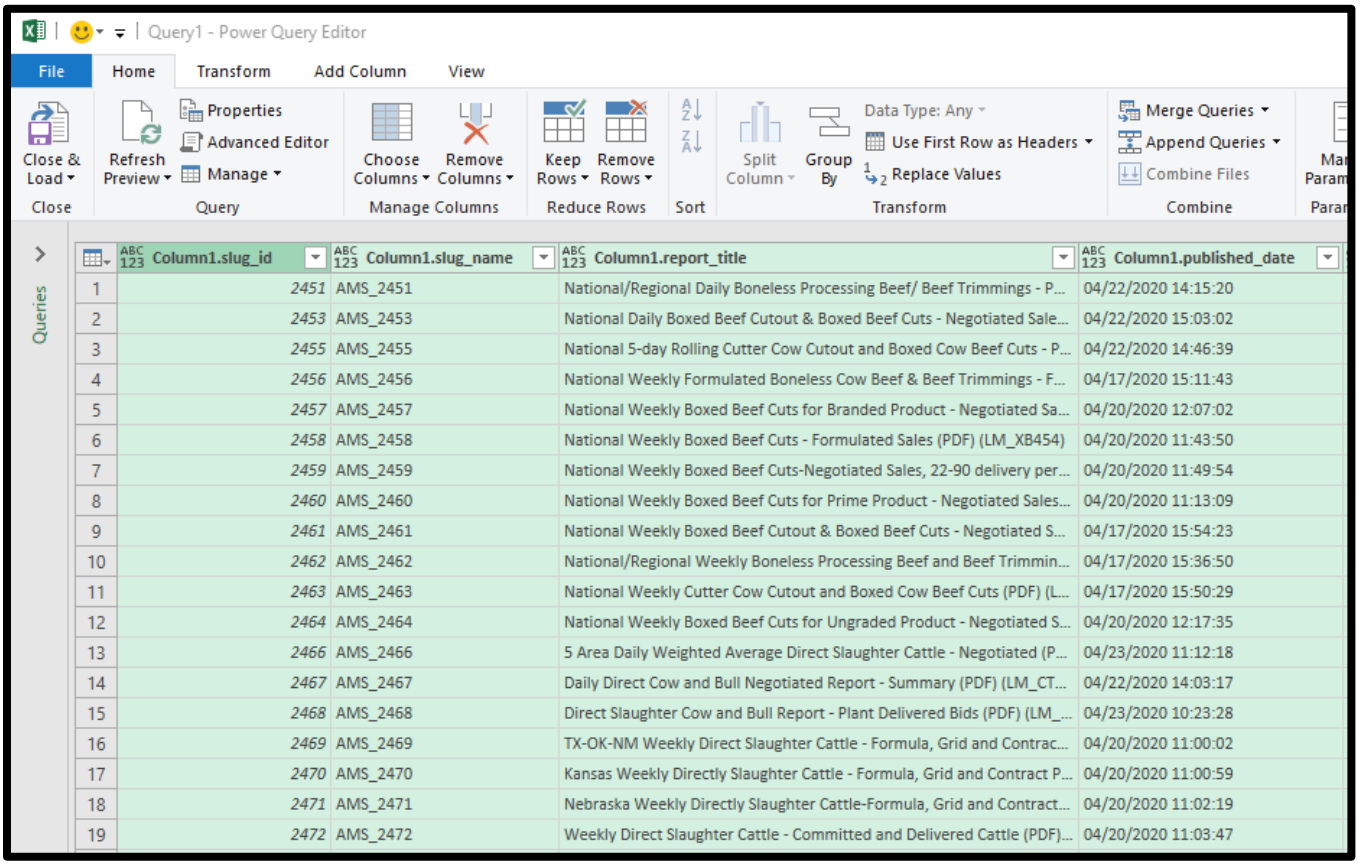
A menu will appear. Click “Ok”

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”.

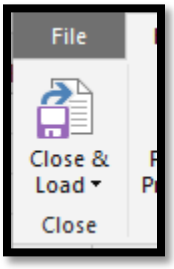


The screen will refresh again and show



	Column1.slug_id	Column1.slug_name	Column1.report_title	Column1.published_date
1	2451	AMS_2451	National/Regional Daily Boneless Processing Beef/ Beef Trimmings - P...	04/22/2020 14:15:20
2	2453	AMS_2453	National Daily Boxed Beef Cutout & Boxed Beef Cuts - Negotiated Sale...	04/22/2020 15:03:02
3	2455	AMS_2455	National 5-day Rolling Cutter Cow Cutout and Boxed Cow Beef Cuts - P...	04/22/2020 14:46:39
4	2456	AMS_2456	National Weekly Formulated Boneless Cow Beef & Beef Trimmings - F...	04/17/2020 15:11:43
5	2457	AMS_2457	National Weekly Boxed Beef Cuts for Branded Product - Negotiated Sa...	04/20/2020 12:07:02
6	2458	AMS_2458	National Weekly Boxed Beef Cuts - Formulated Sales (PDF) (LM_XB454)	04/20/2020 11:43:50
7	2459	AMS_2459	National Weekly Boxed Beef Cuts-Negotiated Sales, 22-90 delivery per...	04/20/2020 11:49:54
8	2460	AMS_2460	National Weekly Boxed Beef Cuts for Prime Product - Negotiated Sales...	04/20/2020 11:13:09
9	2461	AMS_2461	National Weekly Boxed Beef Cutout & Boxed Beef Cuts - Negotiated S...	04/17/2020 15:54:23
10	2462	AMS_2462	National/Regional Weekly Boneless Processing Beef and Beef Trimmin...	04/17/2020 15:36:50
11	2463	AMS_2463	National Weekly Cutter Cow Cutout and Boxed Cow Beef Cuts (PDF) (L...	04/17/2020 15:50:29
12	2464	AMS_2464	National Weekly Boxed Beef Cuts for Ungraded Product - Negotiated S...	04/20/2020 12:17:35
13	2466	AMS_2466	5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (P...	04/23/2020 11:12:18
14	2467	AMS_2467	Daily Direct Cow and Bull Negotiated Report - Summary (PDF) (LM_CT...	04/22/2020 14:03:17
15	2468	AMS_2468	Direct Slaughter Cow and Bull Report - Plant Delivered Bids (PDF) (LM_...	04/23/2020 10:23:28
16	2469	AMS_2469	TX-OK-NM Weekly Direct Slaughter Cattle - Formula, Grid and Contrac...	04/20/2020 11:00:02
17	2470	AMS_2470	Kansas Weekly Directly Slaughter Cattle - Formula, Grid and Contract P...	04/20/2020 11:00:59
18	2471	AMS_2471	Nebraska Weekly Directly Slaughter Cattle-Formula, Grid and Contract...	04/20/2020 11:02:19
19	2472	AMS_2472	Weekly Direct Slaughter Cattle - Committed and Delivered Cattle (PDF)...	04/20/2020 11:03:47

Click the “Close and Load” button. This will load all data into a new Excel worksheet.



2.6 Using Dynamic Parameters in Excel

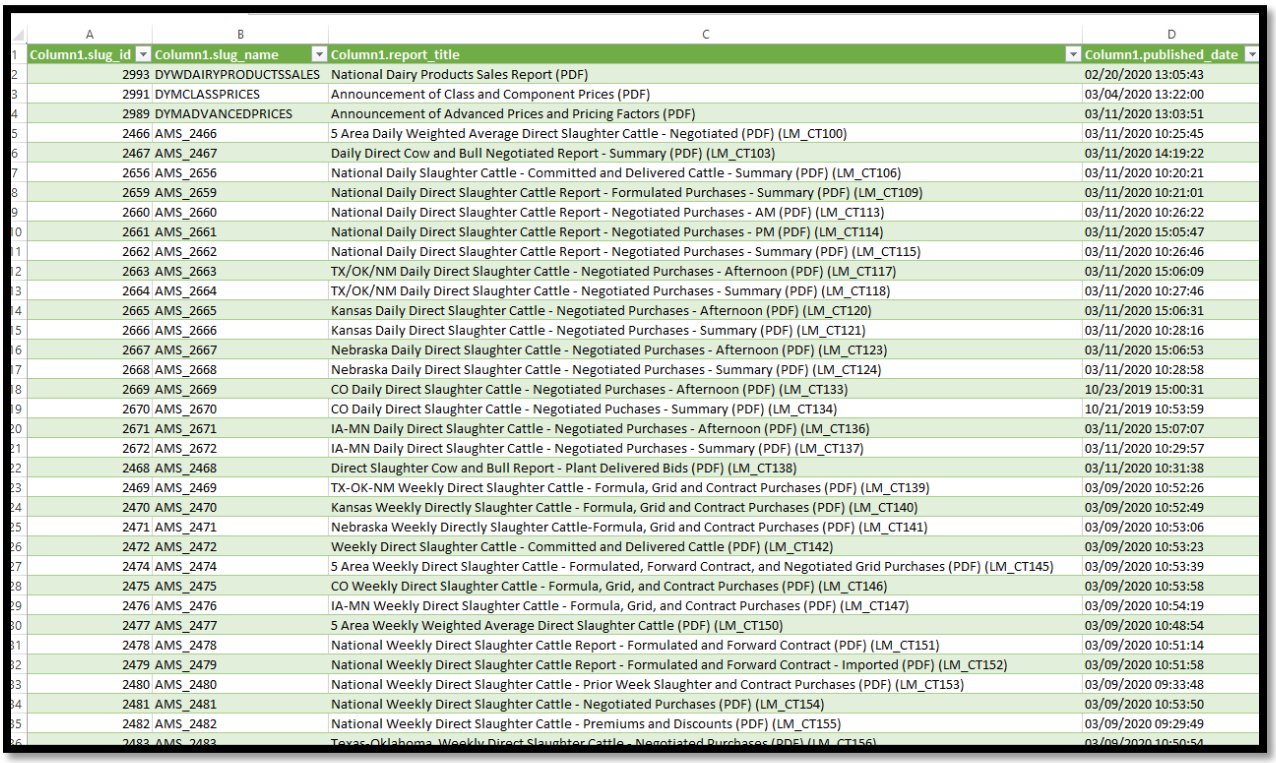
There are ways to dynamically pass parameters to the Data Query Editor on the fly to pull different data. A YouTube video outling how to do that is located here:

https://www.youtube.com/watch?v=sdR2BI2e5Y8&feature=youtu.be

3 Examples

The LMPR API offers a table of contents of all published reports accessible @ https://mpr.datamart.ams.usda.gov/services/v1.1/reports/.

Legacy Slug-ID were added to the Report Title for ease of identification. All specific report drill down queries should be done using the new Slug-ID column denoted below in column A.



	A	B	C	D
1	Column1.slug_id	Column1.slug_name	Column1.report_title	Column1.published_date
2	2993	DYWDAIRYPRODUCTSSALES	National Dairy Products Sales Report (PDF)	02/20/2020 13:05:43
3	2991	DYMCLASSPRICES	Announcement of Class and Component Prices (PDF)	03/04/2020 13:22:00
4	2989	DYMADVANCEDPRICES	Announcement of Advanced Prices and Pricing Factors (PDF)	03/11/2020 13:03:51
5	2466	AMS_2466	5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (PDF) (LM_CT100)	03/11/2020 10:25:45
6	2467	AMS_2467	Daily Direct Cow and Bull Negotiated Report - Summary (PDF) (LM_CT103)	03/11/2020 14:19:22
7	2656	AMS_2656	National Daily Slaughter Cattle - Committed and Delivered Cattle - Summary (PDF) (LM_CT106)	03/11/2020 10:20:21
8	2659	AMS_2659	National Daily Direct Slaughter Cattle Report - Formulated Purchases - Summary (PDF) (LM_CT109)	03/11/2020 10:21:01
9	2660	AMS_2660	National Daily Direct Slaughter Cattle Report - Negotiated Purchases - AM (PDF) (LM_CT113)	03/11/2020 10:26:22
10	2661	AMS_2661	National Daily Direct Slaughter Cattle Report - Negotiated Purchases - PM (PDF) (LM_CT114)	03/11/2020 15:05:47
11	2662	AMS_2662	National Daily Direct Slaughter Cattle Report - Negotiated Purchases - Summary (PDF) (LM_CT115)	03/11/2020 10:26:46
12	2663	AMS_2663	TX/OK/NM Daily Direct Slaughter Cattle - Negotiated Purchases - Afternoon (PDF) (LM_CT117)	03/11/2020 15:06:09
13	2664	AMS_2664	TX/OK/NM Daily Direct Slaughter Cattle - Negotiated Purchases - Summary (PDF) (LM_CT118)	03/11/2020 10:27:46
14	2665	AMS_2665	Kansas Daily Direct Slaughter Cattle - Negotiated Purchases - Afternoon (PDF) (LM_CT120)	03/11/2020 15:06:31
15	2666	AMS_2666	Kansas Daily Direct Slaughter Cattle - Negotiated Purchases - Summary (PDF) (LM_CT121)	03/11/2020 10:28:16
16	2667	AMS_2667	Nebraska Daily Direct Slaughter Cattle - Negotiated Purchases - Afternoon (PDF) (LM_CT123)	03/11/2020 15:06:53
17	2668	AMS_2668	Nebraska Daily Direct Slaughter Cattle - Negotiated Purchases - Summary (PDF) (LM_CT124)	03/11/2020 10:28:58
18	2669	AMS_2669	CO Daily Direct Slaughter Cattle - Negotiated Purchases - Afternoon (PDF) (LM_CT133)	10/23/2019 15:00:31
19	2670	AMS_2670	CO Daily Direct Slaughter Cattle - Negotiated Puchases - Summary (PDF) (LM_CT134)	10/21/2019 10:53:59
20	2671	AMS_2671	IA-MN Daily Direct Slaughter Cattle - Negotiated Purchases - Afternoon (PDF) (LM_CT136)	03/11/2020 15:07:07
21	2672	AMS_2672	IA-MN Daily Direct Slaughter Cattle - Negotiated Purchases - Summary (PDF) (LM_CT137)	03/11/2020 10:29:57
22	2468	AMS_2468	Direct Slaughter Cow and Bull Report - Plant Delivered Bids (PDF) (LM_CT138)	03/11/2020 10:31:38
23	2469	AMS_2469	TX-OK-NM Weekly Direct Slaughter Cattle - Formula, Grid and Contract Purchases (PDF) (LM_CT139)	03/09/2020 10:52:26
24	2470	AMS_2470	Kansas Weekly Directly Slaughter Cattle - Formula, Grid and Contract Purchases (PDF) (LM_CT140)	03/09/2020 10:52:49
25	2471	AMS_2471	Nebraska Weekly Directly Slaughter Cattle-Formula, Grid and Contract Purchases (PDF) (LM_CT141)	03/09/2020 10:53:06
26	2472	AMS_2472	Weekly Direct Slaughter Cattle - Committed and Delivered Cattle (PDF) (LM_CT142)	03/09/2020 10:53:23
27	2474	AMS_2474	5 Area Weekly Direct Slaughter Cattle - Formulated, Forward Contract, and Negotiated Grid Purchases (PDF) (LM_CT145)	03/09/2020 10:53:39
28	2475	AMS_2475	CO Weekly Direct Slaughter Cattle - Formula, Grid, and Contract Purchases (PDF) (LM_CT146)	03/09/2020 10:53:58
29	2476	AMS_2476	IA-MN Weekly Direct Slaughter Cattle - Formula, Grid, and Contract Purchases (PDF) (LM_CT147)	03/09/2020 10:54:19
30	2477	AMS_2477	5 Area Weekly Weighted Average Direct Slaughter Cattle (PDF) (LM_CT150)	03/09/2020 10:48:54
31	2478	AMS_2478	National Weekly Direct Slaughter Cattle Report - Formulated and Forward Contract (PDF) (LM_CT151)	03/09/2020 10:51:14
32	2479	AMS_2479	National Weekly Direct Slaughter Cattle Report - Formulated and Forward Contract - Imported (PDF) (LM_CT152)	03/09/2020 10:51:58
33	2480	AMS_2480	National Weekly Direct Slaughter Cattle - Prior Week Slaughter and Contract Purchases (PDF) (LM_CT153)	03/09/2020 09:33:48
34	2481	AMS_2481	National Weekly Direct Slaughter Cattle - Negotiated Purchases (PDF) (LM_CT154)	03/09/2020 10:53:50
35	2482	AMS_2482	National Weekly Direct Slaughter Cattle - Premiums and Discounts (PDF) (LM_CT155)	03/09/2020 09:29:49
36	2483	AMS_2483	Texas-Oklahoma Weekly Direct Slaughter Cattle - Negotiated Purchases (PDF) (LM_CT156)	03/09/2020 10:50:54

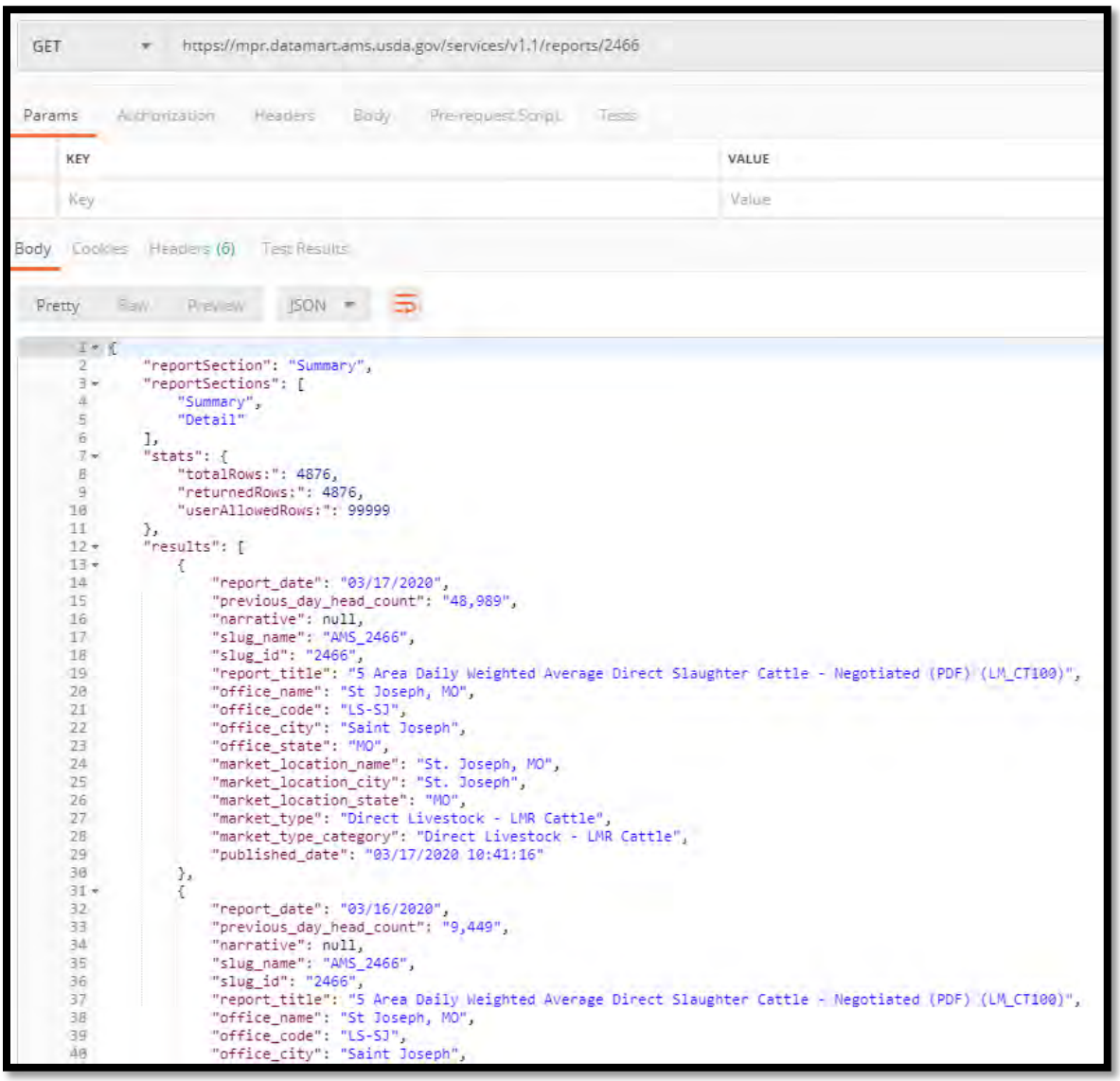
3.1 Livestock Report Examples

To pull the Summary Section of the "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*", the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466

Note the usage of the slug_id to access this particular report. Results by default show the most recent report first.

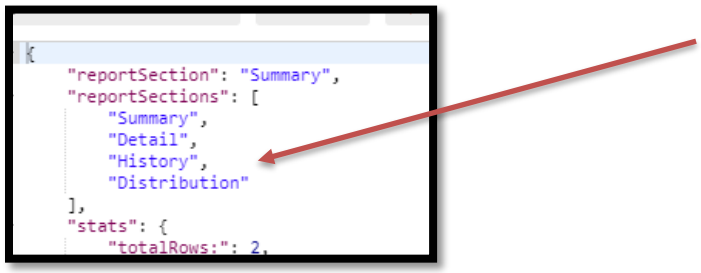
Expected results would be:



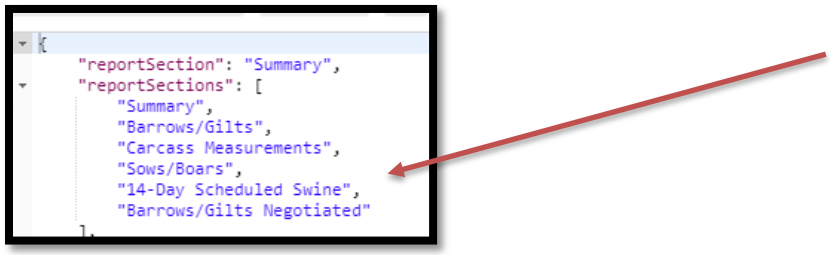
3.2 Important Note on Report Section Names

The sections of each report differs depending on the commodity. The recommended way to identify unqiue “Section” names is to query the Summary first. Examples are below.

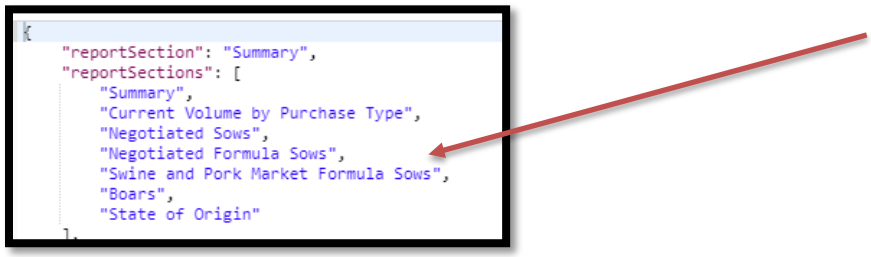
Example 1:
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2668/?q=report_date=03/09/2020&allSections=true



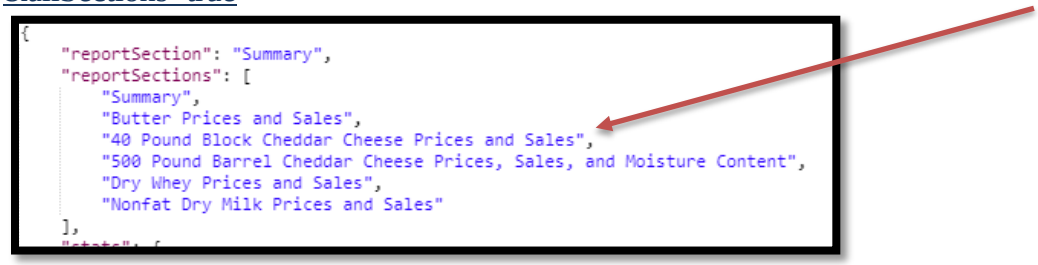
Example 2:
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2511/?q=report_date=03/09/2020&allSections=true



Example 3:
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2676/Summary?q=report_date=03/09/2020&allSections=true



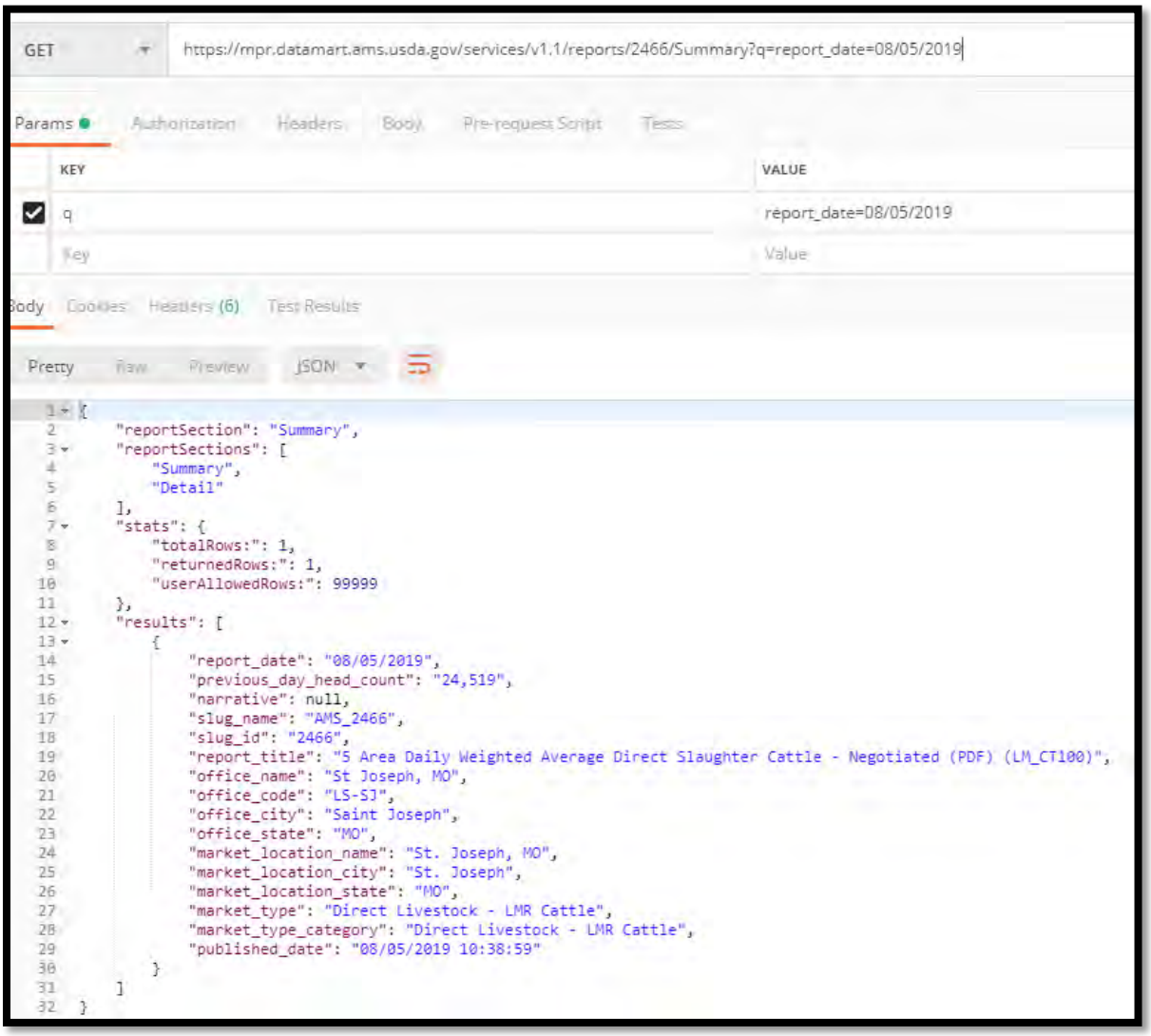
Example 4:
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993?q=week_ending_date=3/28/2020&allSections=true



To pull the Summary for this same report ("*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*"), but for only one report_date, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Summary?q=report_date=08/05/2019

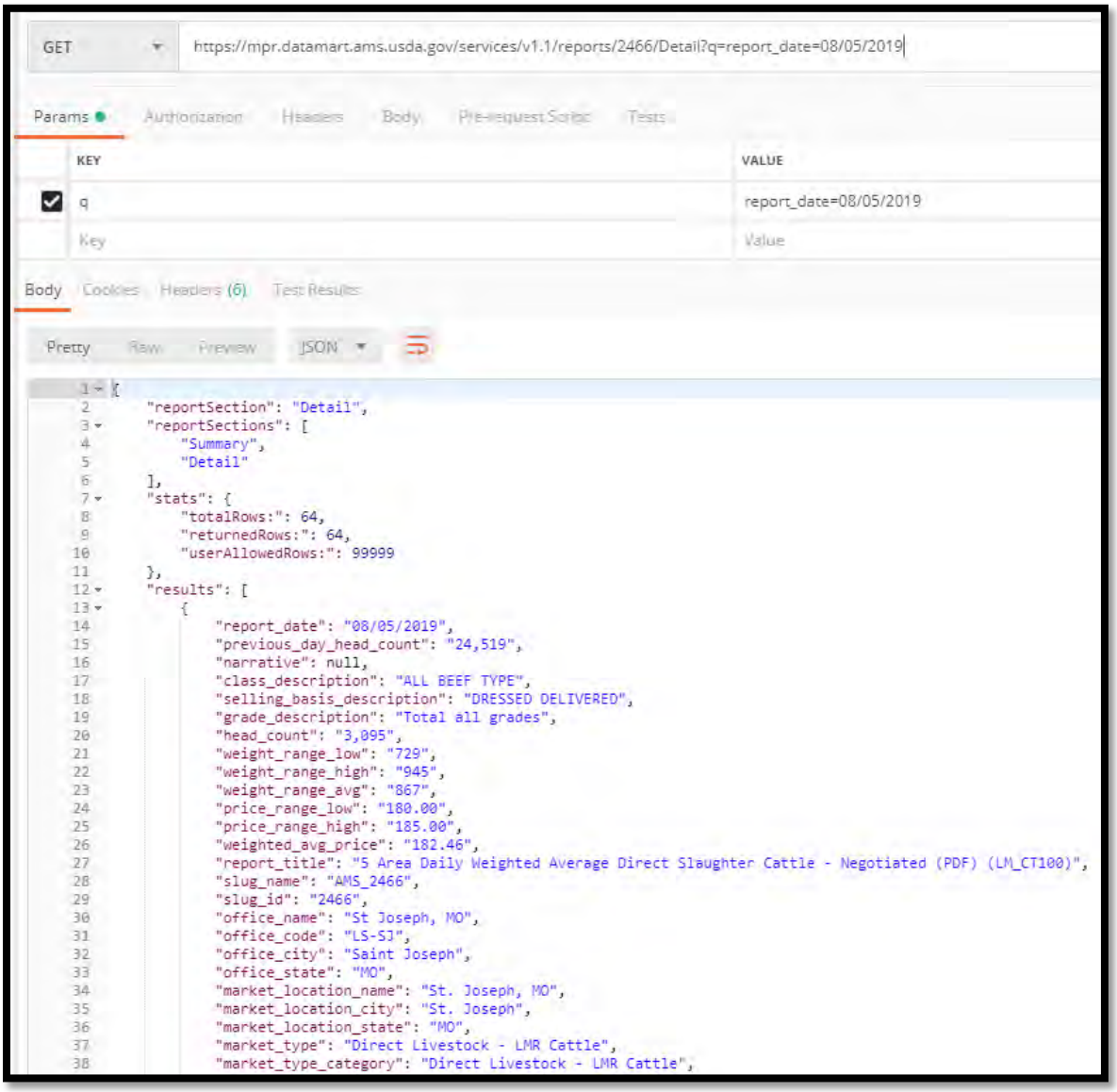
Expected results would be:



To access the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the same report_date, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019

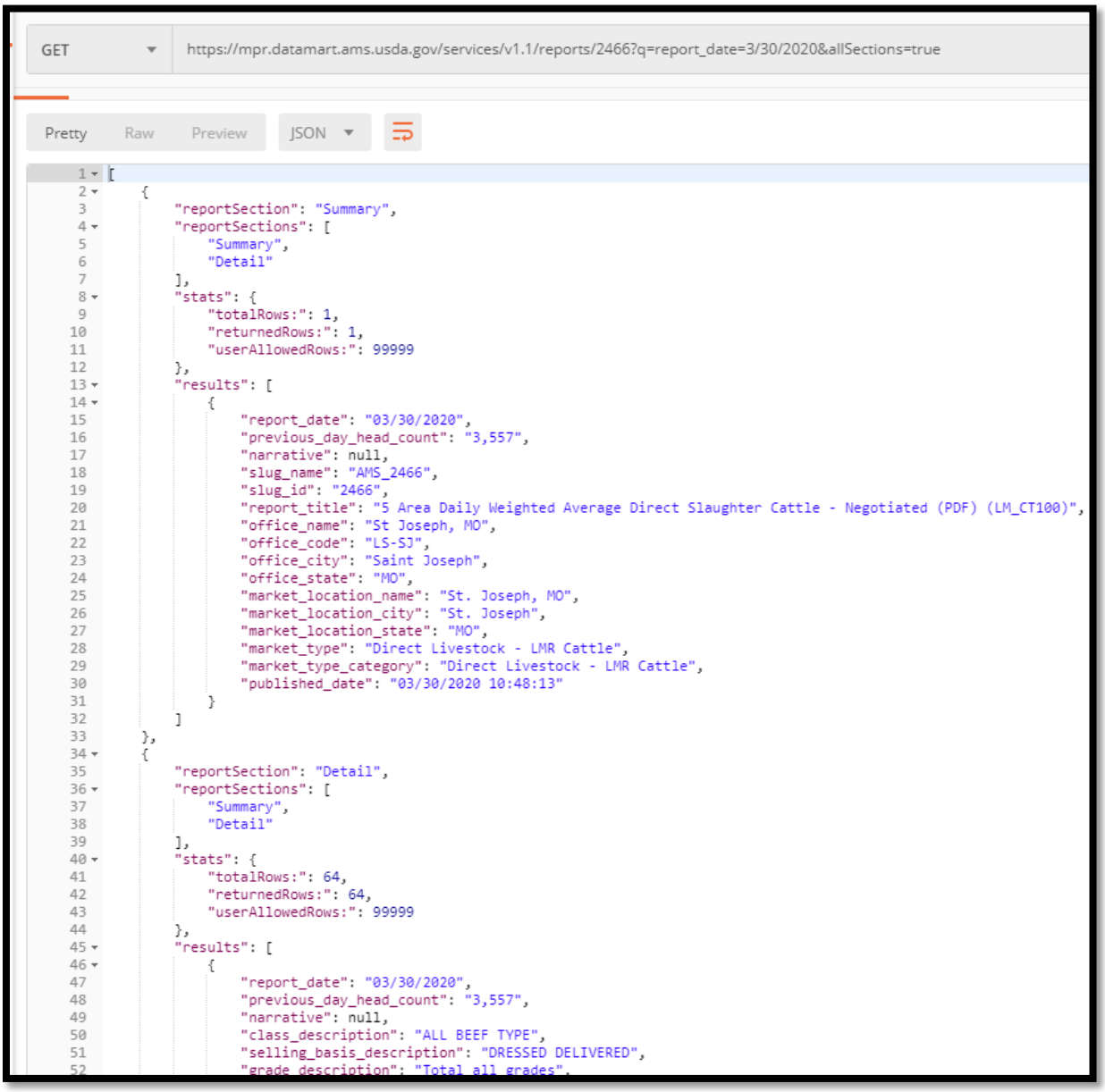
Expected results would be:



To pull All Sections of the "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" at one time, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466?q=report_date=3/30/2020&allSections=true

Expected results would be:



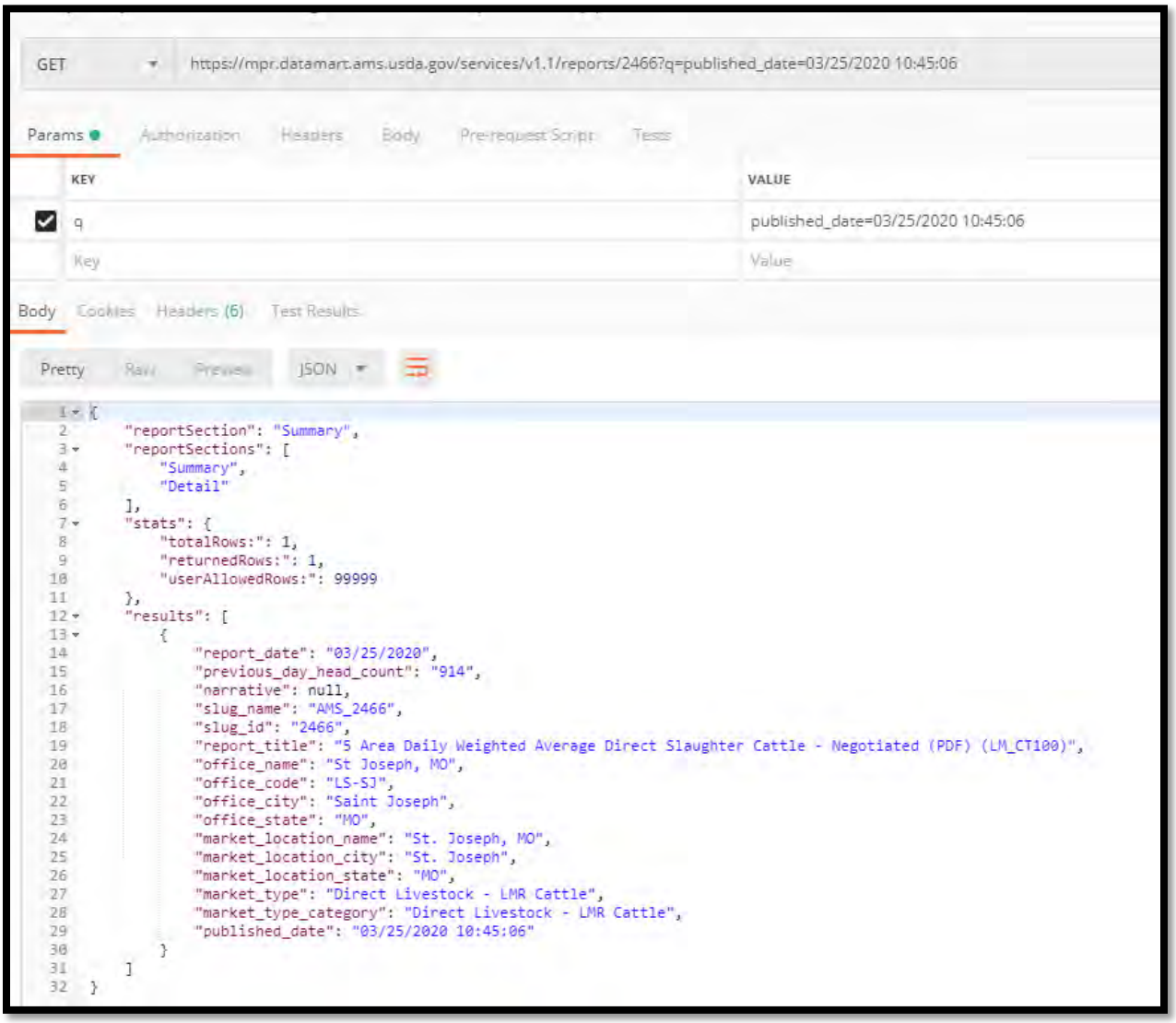
To access the Summary section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" with a published date of 03/25/2020, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466?q=published_date=03/25/2020

Special note. The published date query also accepts HH:MM:SS as shown below.
The published date query accepts either, and on any section of a report

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466?q=published_date=03/25/2020 10:45:06

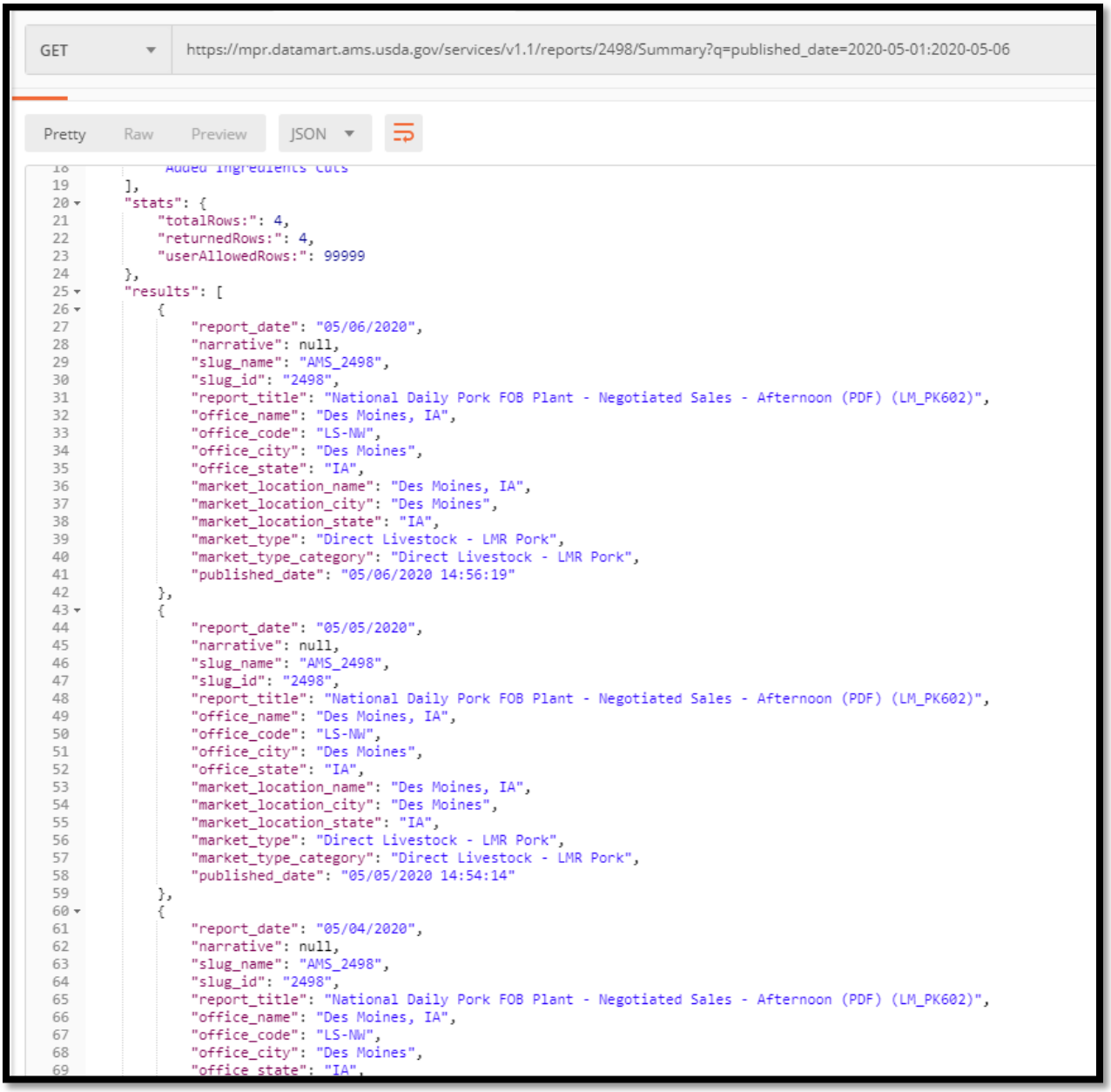
Expected results would be:



To access the Summary section of "*"National Daily Pork FOB Plant - Negotiated Sales - Afternoon (PDF) (LM_PK602)*" with a published date between 05-01-2020 and 05-06-2020, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2498/Summary?q=published_date=2020-05-01:2020-05-06

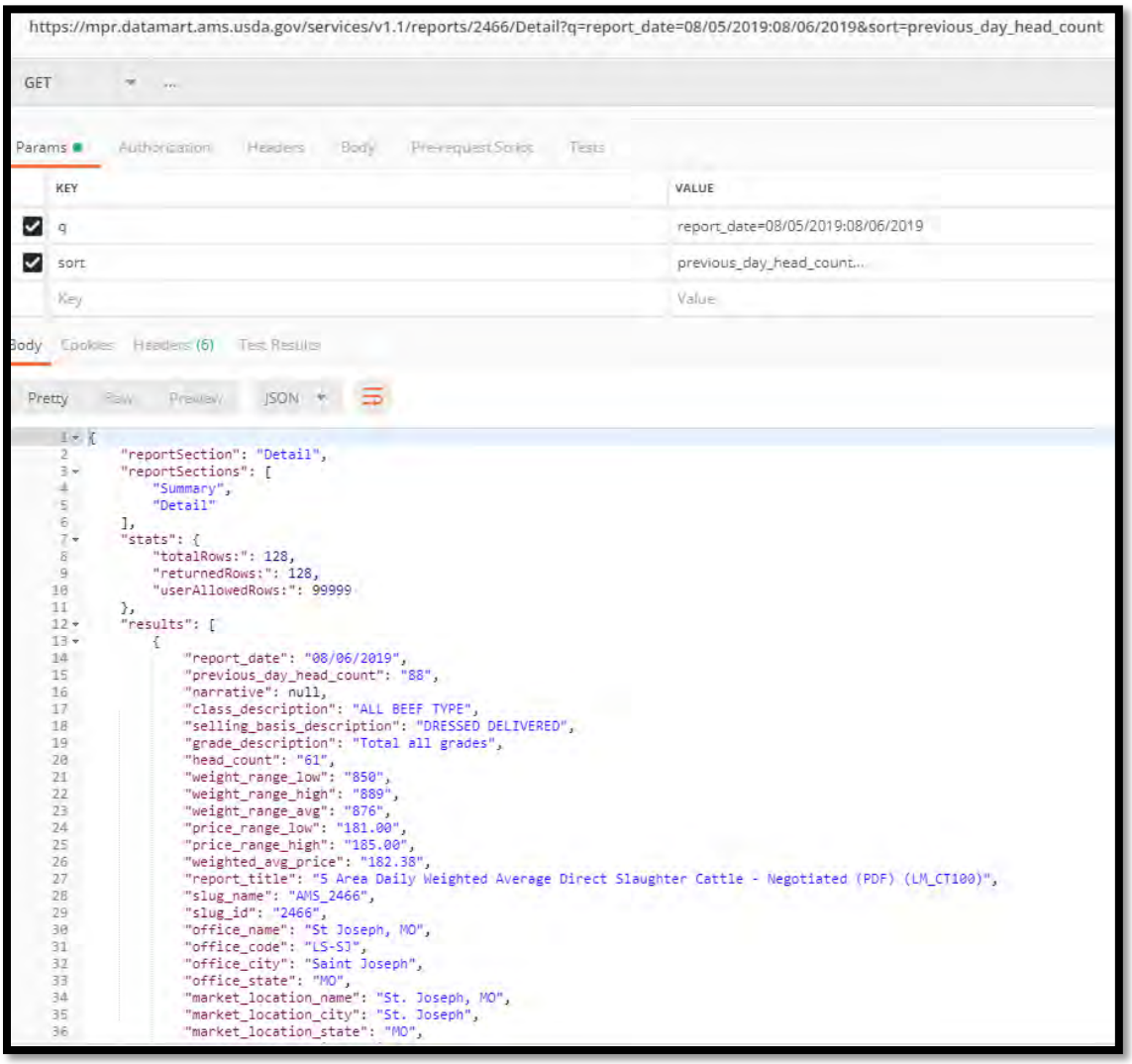
Expected results would be:



To access the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the report_date range of 08/05/2019 to 08/06/2019, but add a Sort filter on previous_day_head_count field, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019:08/06/2019&sort=previous_day_head_count

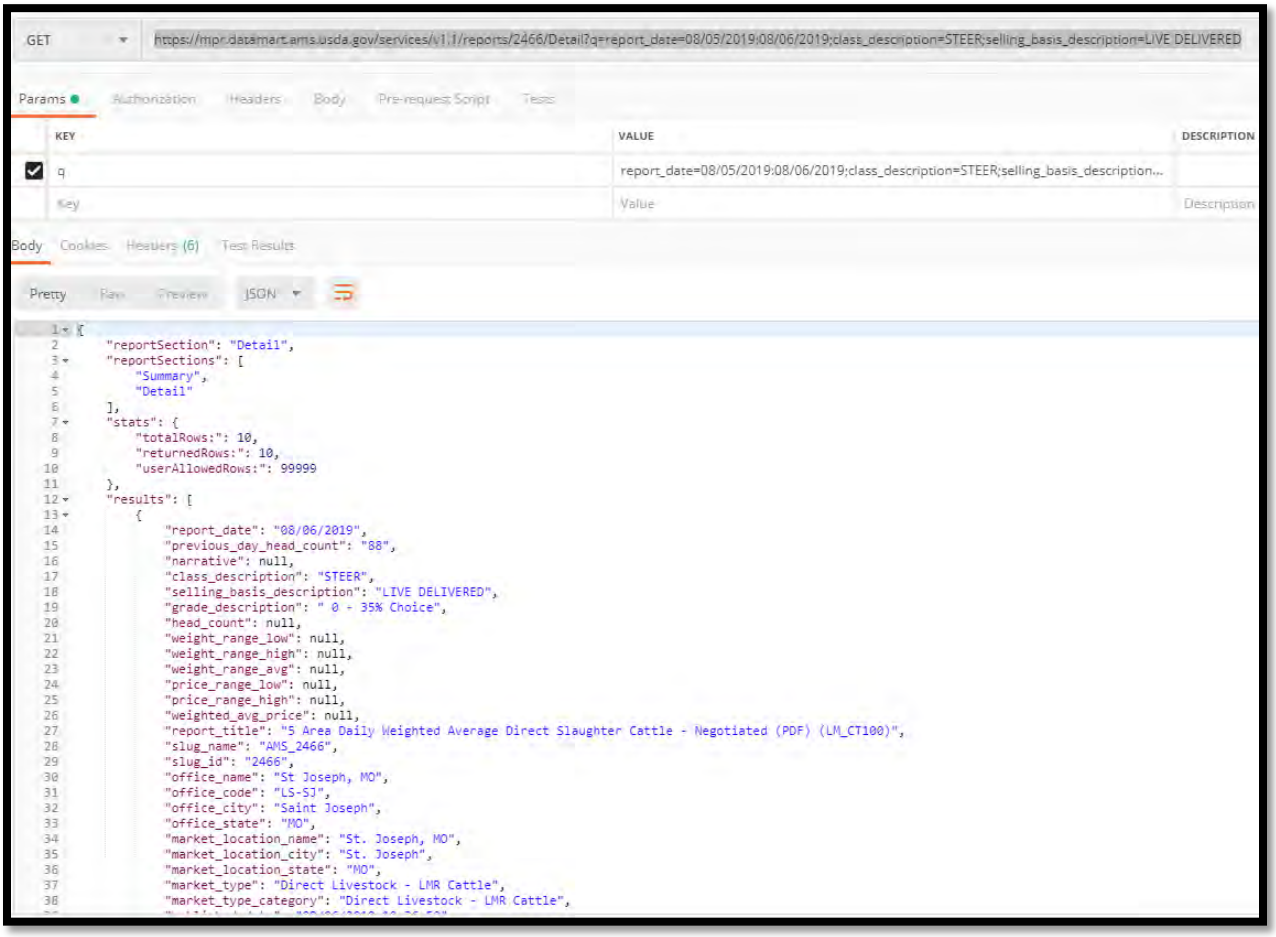
Expected results would be:



To pull the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the report_date range of 08/05/2019 to 08/06/2019, but only select class_description of STEER with a selling_basis of LIVE DELIVERED, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019:08/06/2019;class_description=STEER;selling_basis_description=LIVE DELIVERED

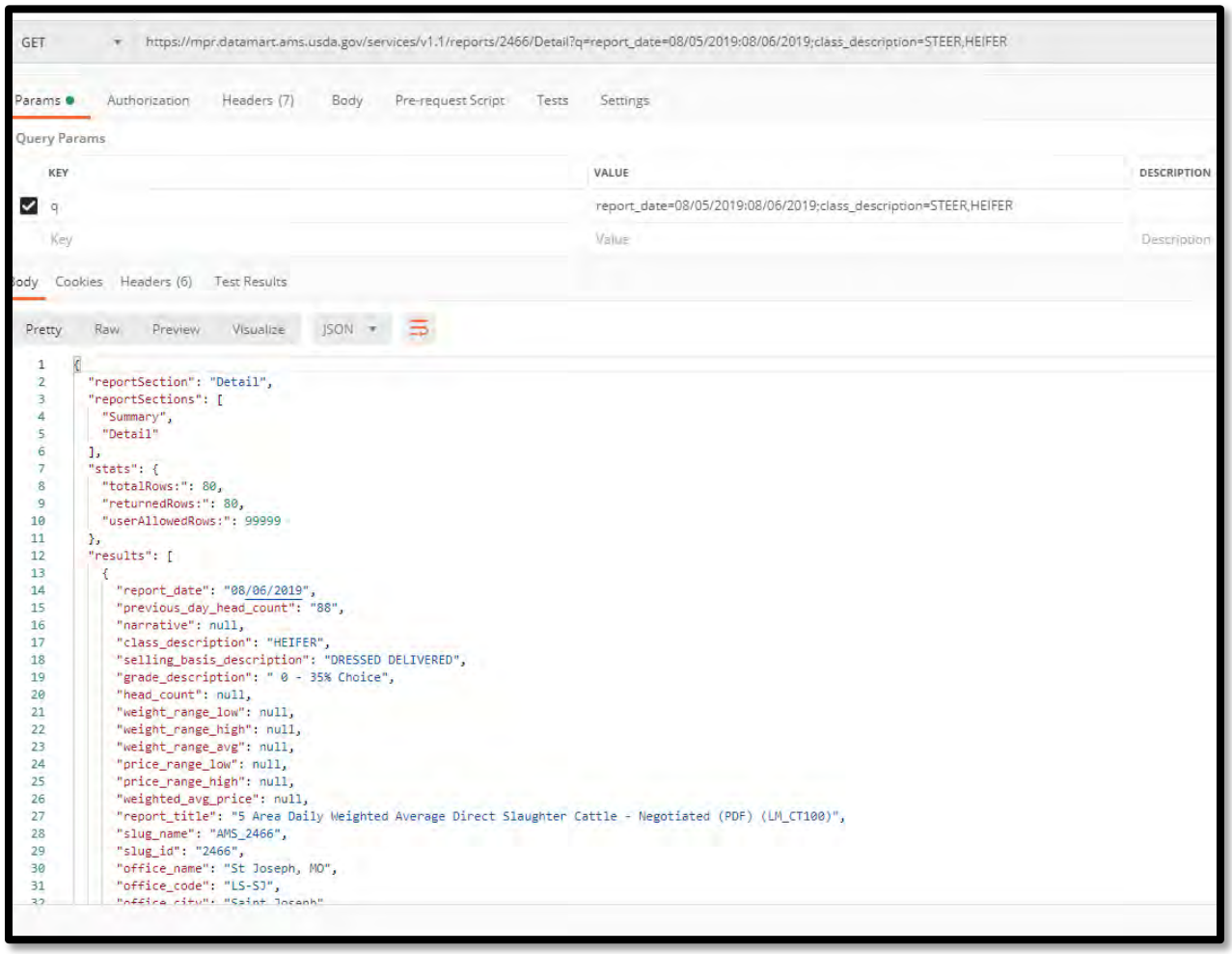
Expected results would be:



To pull the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the report_date range of 08/05/2019 to 08/06/2019, but only select class_description of either STEER or HEIFER, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019:08/06/2019;class_description=STEER,HEIFER

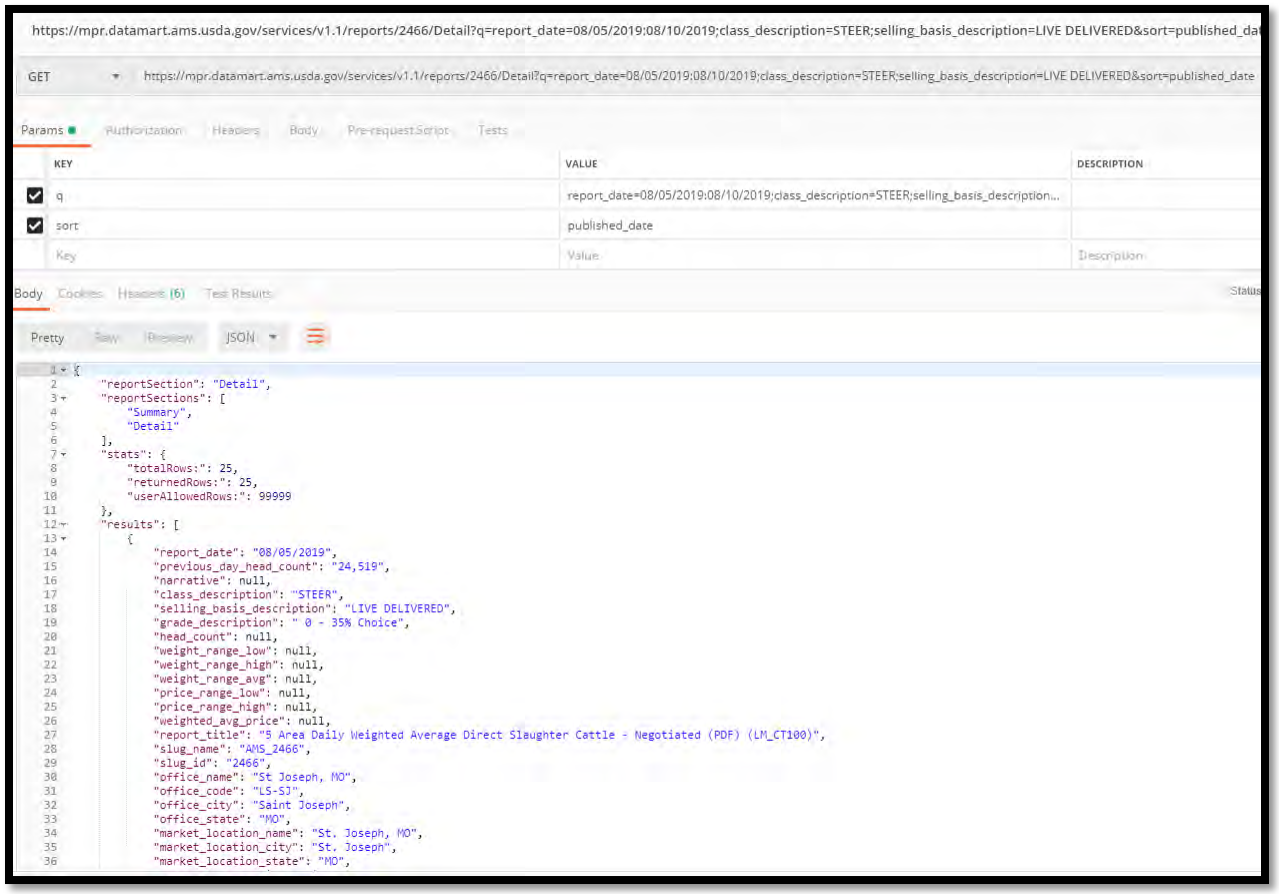
Expected results would be:



To pull the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the report_date range of 08/05/2019 to 08/10/2019, but only select class_description of STEER with a selling_basis of LIVE DELIVERED sorted with the oldest published_date first, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019:08/10/2019;class_description=STEER;selling_basis_description=LIVE DELIVERED&sort=published_date

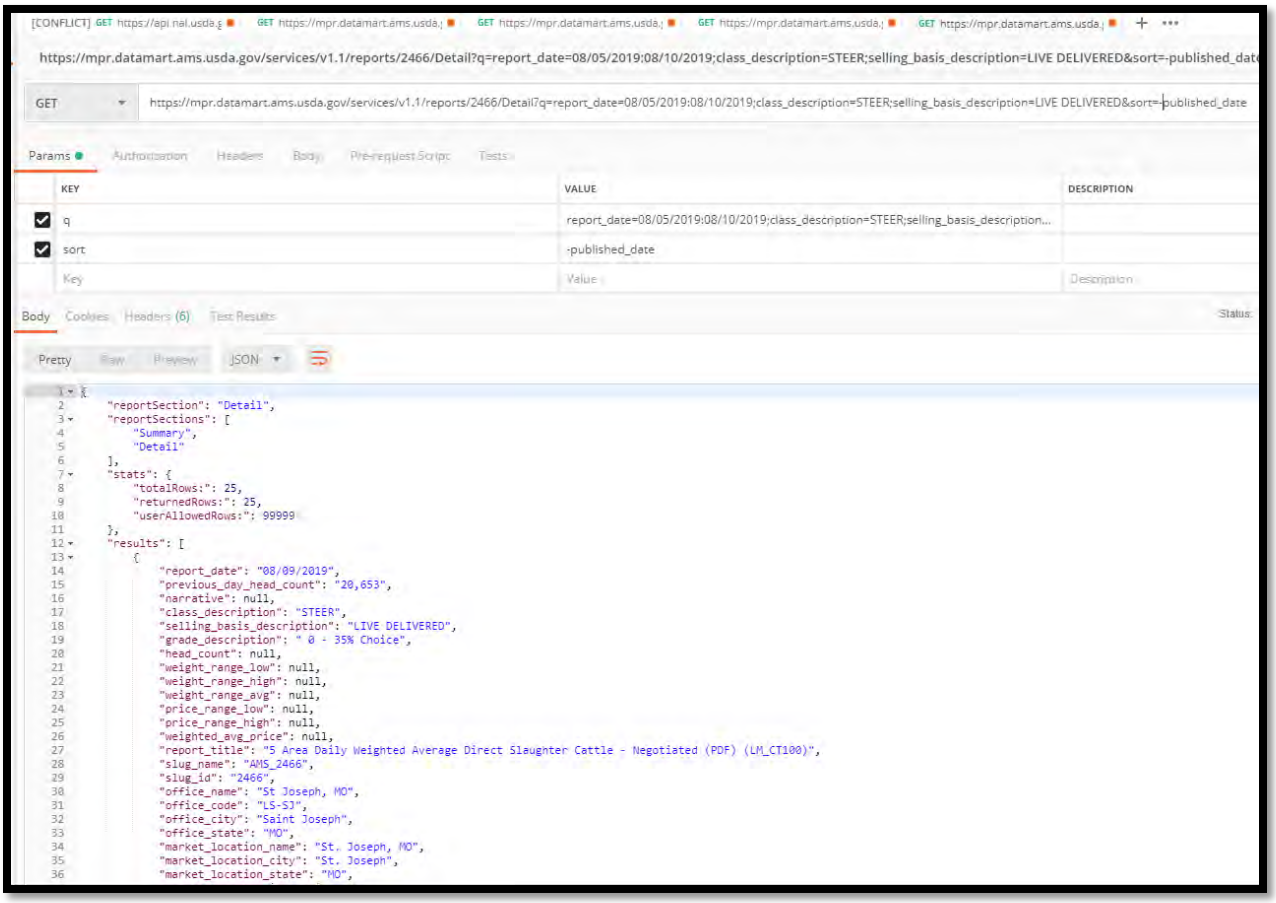
Expected results would be:



To pull the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle – Negotiated (LM_CT100)*" for the report_date range of 08/05/2019 to 08/10/2019, but only select class_description of STEER with a selling_basis of LIVE DELIVERED sorted with more recent published_date first, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?q=report_date=08/05/2019:08/10/2019;class_description=STEER;selling_basis_description=LIVE DELIVERED&sort=-published_date

Note the "-" before the published_date sort syntax. Expected results would be:



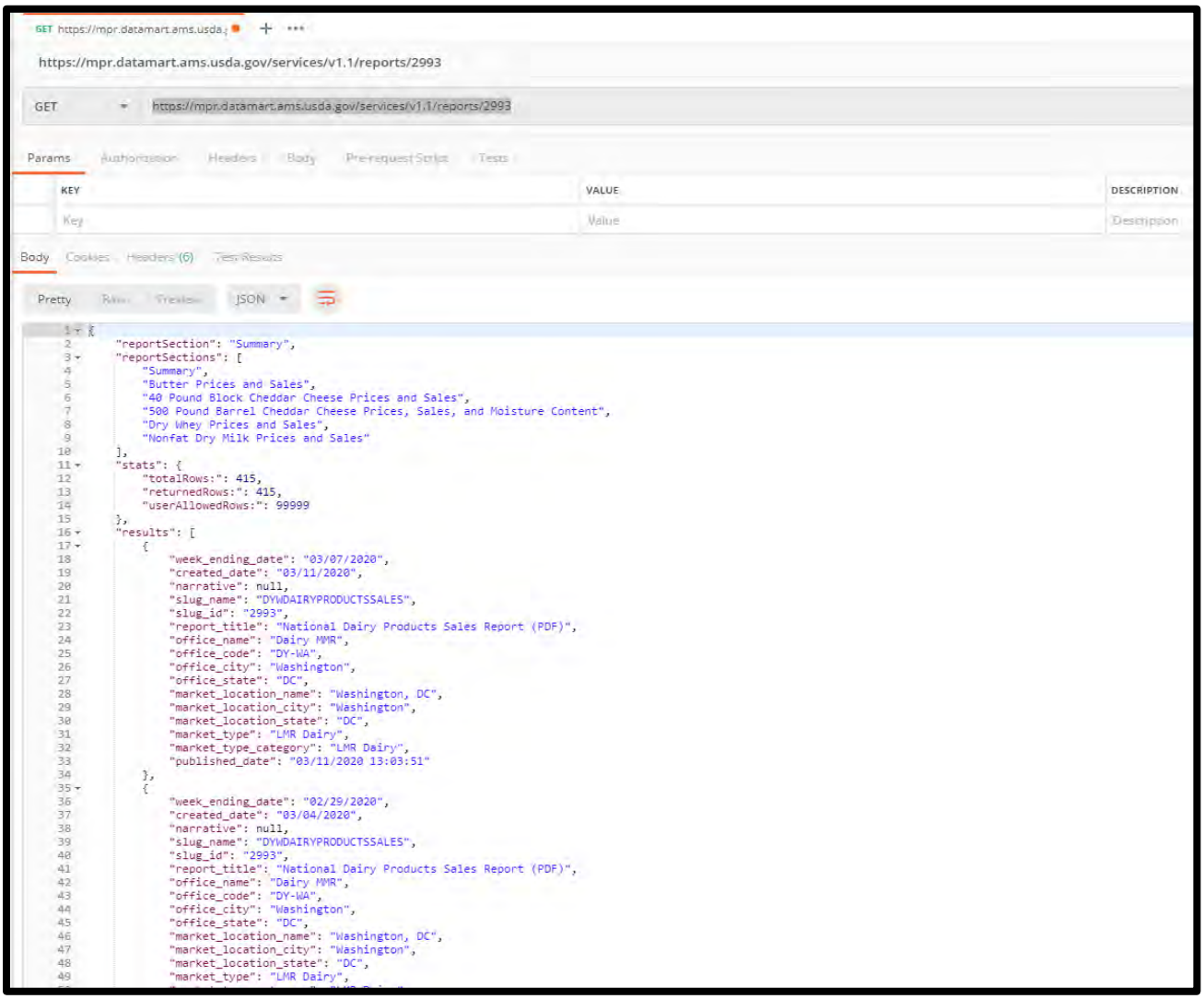
3.3 Dairy Examples

3.3.1 Dairy Product Mandatory Reporting Program (DPMRP) Examples

To pull the Summary Section of the *National Dairy Products Sales Report*, the sample syntax would be:
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993

Denote the usage of the Slug_ID to access this particular report. Results by default show the most recent report first. In addition, the summary section for Dairy reports will not show any data.

Expected results in Postman:



Expected result in Excel:

Column1.week_ending_date	Column1.created_date	Column1.narrative	Column1.slug_name	Column1.slug_id	Column1.report_title	Column1.office_name
03/14/2020	03/18/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
03/07/2020	03/11/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
02/29/2020	03/04/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
02/22/2020	02/26/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
02/15/2020	02/20/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
02/08/2020	02/12/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
02/01/2020	02/05/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
01/25/2020	01/29/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
01/18/2020	01/23/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
01/11/2020	01/15/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
01/04/2020	01/08/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
12/28/2019	01/02/2020		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
12/21/2019	12/26/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
12/14/2019	12/18/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
12/07/2019	12/11/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
11/30/2019	12/04/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
11/23/2019	11/27/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
11/16/2019	11/20/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
11/09/2019	11/14/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
11/02/2019	11/06/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
10/26/2019	10/30/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
10/19/2019	10/23/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
10/12/2019	10/17/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
10/05/2019	10/09/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR
09/28/2019	10/02/2019		DYWDAIRYPRODUCTSSALES	2993	National Dairy Products Sales Report (PDF)	Dairy MMR

The "*National Dairy Products Sales Report"* is comprised of six sections, including Summary (above), Butter, Cheddar 40s, Cheddar 500s, Dry Whey, and Nonfat Dry Milk Sections. To pull the each Section of the "*National Dairy Products Sales Report"*, the sample syntaxes would be:

- Butter - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Butter Prices and Sales
- Cheddar 40s - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/40 Pound Block Cheddar Cheese Prices and Sales
- Cheddar 500s - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/500 Pound Barrel Cheddar Cheese Prices, Sales, and Moisture Content
- Dry Whey - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Dry Whey Prices and Sales
- Nonfat Dry Milk - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Nonfat Dry Milk Prices and Sales

Denote that there are six sections to this report. When setting up your workbook you will need to pull one section per tab. For these examples the URL is the same for Postman and Excel.

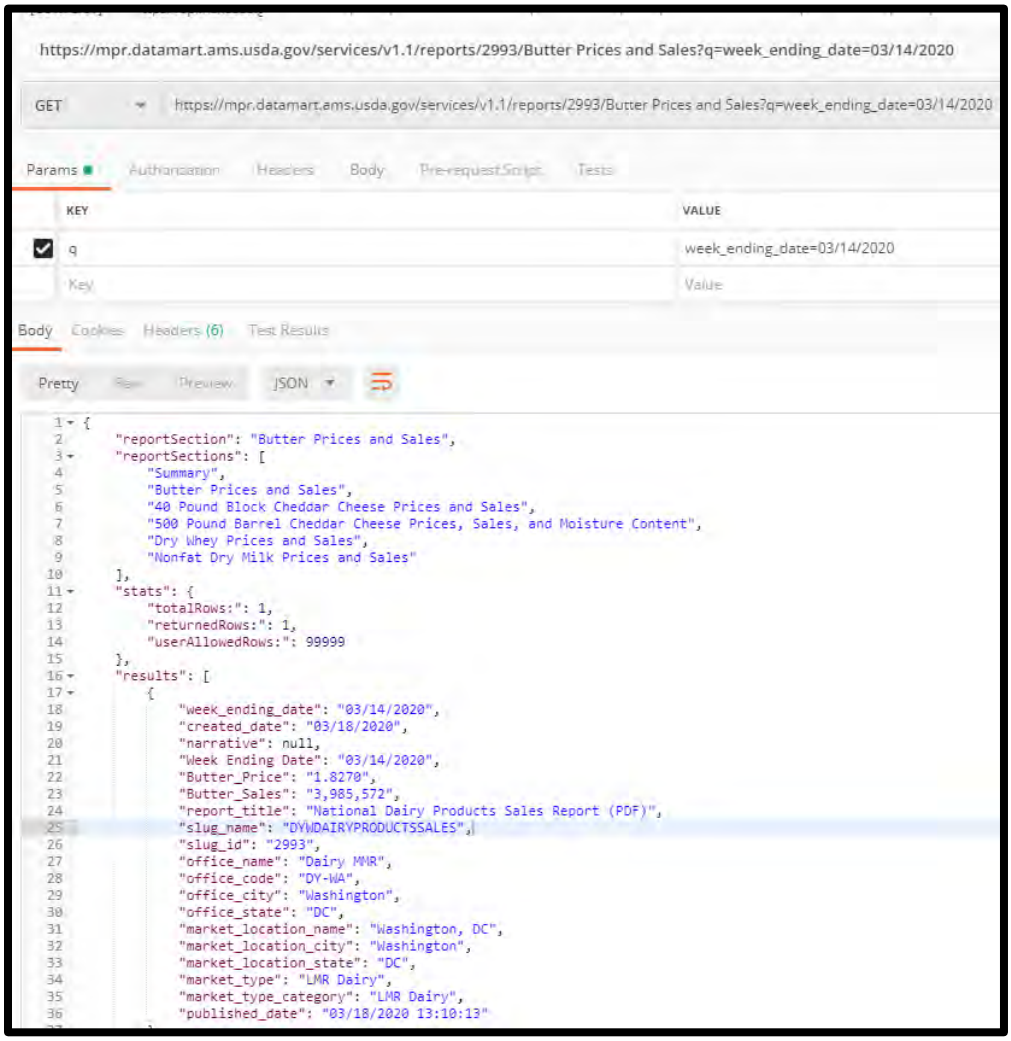
Expected results in Excel for butter:

Column1.week_ending_date	Column1.created_date	Column1.Week Ending Date	Column1.Butter_Price	Column1.Butter_Sales	Column1.report_title
03/14/2020	03/18/2020	02/15/2020	1.8237	8,178,848	National Dairy Products Sales Report (PDF)
03/14/2020	03/18/2020	02/22/2020	1.7885	8,030,701	National Dairy Products Sales Report (PDF)
03/14/2020	03/18/2020	02/29/2020	1.7691	5,549,051	National Dairy Products Sales Report (PDF)
03/14/2020	03/18/2020	03/07/2020	1.7461	6,545,706	National Dairy Products Sales Report (PDF)
03/14/2020	03/18/2020	03/14/2020	1.8270	3,985,572	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020	03/07/2020	1.7352	5,341,939	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020	02/29/2020	1.7759	5,591,489	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020	02/22/2020	1.7885	8,030,701	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020	02/15/2020	1.8237	8,178,848	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020	02/08/2020	1.8306	8,581,510	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020	02/01/2020	1.8711	6,179,233	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020	02/08/2020	1.8306	8,581,510	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020	02/15/2020	1.8237	8,178,848	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020	02/22/2020	1.7885	8,032,905	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020	02/29/2020	1.7762	5,591,489	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020	02/22/2020	1.7921	7,412,860	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020	02/15/2020	1.8262	8,302,913	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020	02/08/2020	1.8312	8,581,510	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020	02/01/2020	1.8711	6,179,233	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020	01/25/2020	1.9011	4,059,032	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020	01/18/2020	1.9549	2,412,583	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020	01/25/2020	1.9011	4,059,032	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020	02/01/2020	1.8675	5,991,195	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020	02/08/2020	1.8296	8,470,002	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020	02/15/2020	1.8257	8,282,960	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020	02/08/2020	1.8561	5,141,276	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020	02/01/2020	1.8675	5,991,195	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020	01/25/2020	1.9011	4,059,032	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020	01/18/2020	1.9549	2,412,583	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020	01/11/2020	1.9199	5,562,688	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020	01/04/2020	1.9789	3,520,035	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020	01/11/2020	1.9199	5,562,688	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020	01/18/2020	1.9549	2,412,583	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020	01/25/2020	1.9011	4,059,032	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020	02/01/2020	1.8675	5,991,195	National Dairy Products Sales Report (PDF)
01/25/2020	01/29/2020	01/25/2020	1.9009	3,976,360	National Dairy Products Sales Report (PDF)
01/25/2020	01/29/2020	01/18/2020	1.9549	2,412,583	National Dairy Products Sales Report (PDF)
01/25/2020	01/29/2020	01/11/2020	1.9206	5,579,224	National Dairy Products Sales Report (PDF)
01/25/2020	01/29/2020	01/04/2020	1.9850	3,575,151	National Dairy Products Sales Report (PDF)

To pull the Butter section for this same report "*National Dairy Products Sales Report"* but for only one report date, the sample syntax for Postman and Excel would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Butter Prices and Sales?q=week_ending_date=03/14/2020

Expected results in Postman:



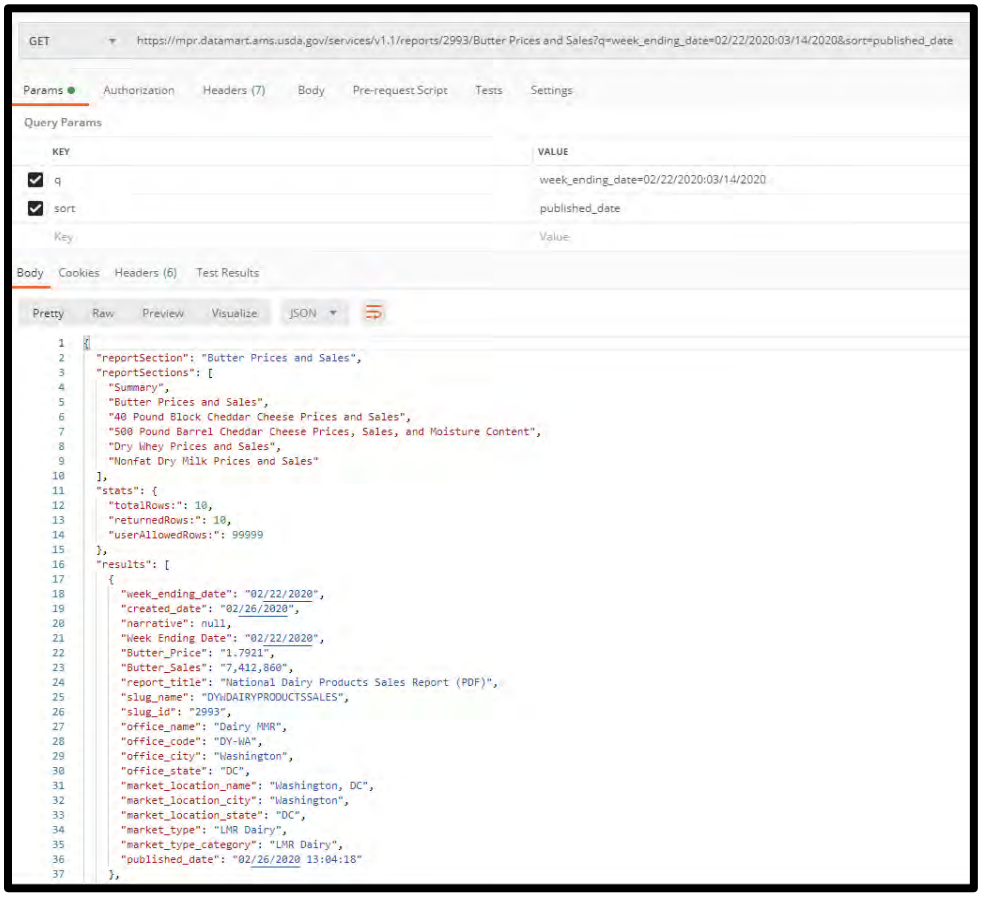
Expected results in Excel:

Column1.week_ending_date	Column1.created_date	Column1.Week Ending Date	Column1.Butter_Price	Column1.Butter_Sales	Column1.report_title
03/14/2020	03/18/2020	03/14/2020	1.8270	3,985,572	National Dairy Products Sales Report (PDF)

To access the Butter section of "*National Dairy Products Sales Report"* for the date range of 02/22/2020 to 03/14/2020, but Sort with the oldest date first, the sample syntax for Postman and Excel would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Butter Prices and Sales?q=week_ending_date=02/22/2020:03/14/2020&sort=published_date

Expected results in Postman:



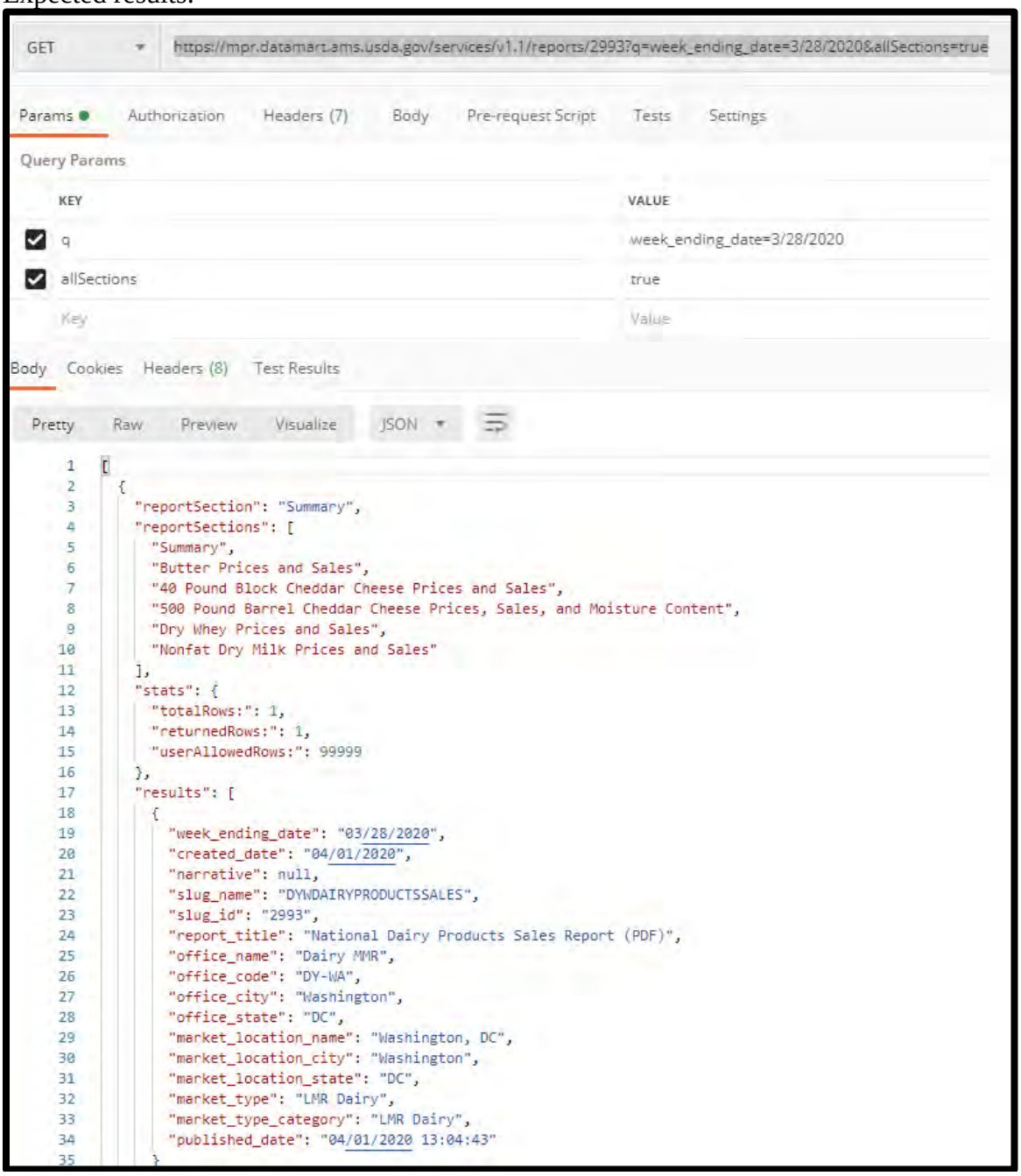
Expected results in Excel:

Column1.week_ending_date	Column1.created_date	Column1.Week Ending Date	Column1.Butter_Price	Column1.Butter_Sales	Column1.report_title	Column1.slug_name	Column1.slug_id
02/22/2020	02/26/2020	02/22/2020	1.7921	7,412,860	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
02/29/2020	03/04/2020	02/29/2020	1.7762	5,591,489	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
02/29/2020	03/04/2020	02/22/2020	1.7885	8,032,905	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/07/2020	03/11/2020	02/29/2020	1.7759	5,591,489	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/07/2020	03/11/2020	02/22/2020	1.7885	8,030,701	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/07/2020	03/11/2020	03/07/2020	1.7352	5,341,939	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/14/2020	03/18/2020	03/14/2020	1.8270	3,985,572	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/14/2020	03/18/2020	02/29/2020	1.7691	5,549,051	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/14/2020	03/18/2020	03/07/2020	1.7461	6,545,706	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993
03/14/2020	03/18/2020	02/22/2020	1.7885	8,030,701	National Dairy Products Sales Report (PDF)	DYWDAIRYPRODUCTSSALES	2993

To pull the all sections of the *National Dairy Products Sales Report*, but for only one report date the sample syntax for Postman and Excel would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993?q=week_ending_date=3/28/2020&allSections=true

Expected results:



The "*National Dairy Products Sales Report*" report allows revisions to the four weeks of data prior to the current reporting week. To pull final price and volume information that includes all revisions, the sample syntaxes would be:

- Butter – https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Final Butter Prices and Sales
- Cheddar 40s - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Final 40 Pound Block Cheddar Cheese Prices and Sales
- Cheddar 500s - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Final 500 Pound Barrel Cheddar Cheese Prices, Sales, and Moisture Content
- Dry Whey - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Final Dry Whey Prices and Sales
- Nonfat Dry Milk - https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2993/Final Nonfat Dry Milk Prices and Sales

Denote that for these examples the URL is the same for Postman and Excel.

Expected results in Excel for dry whey:

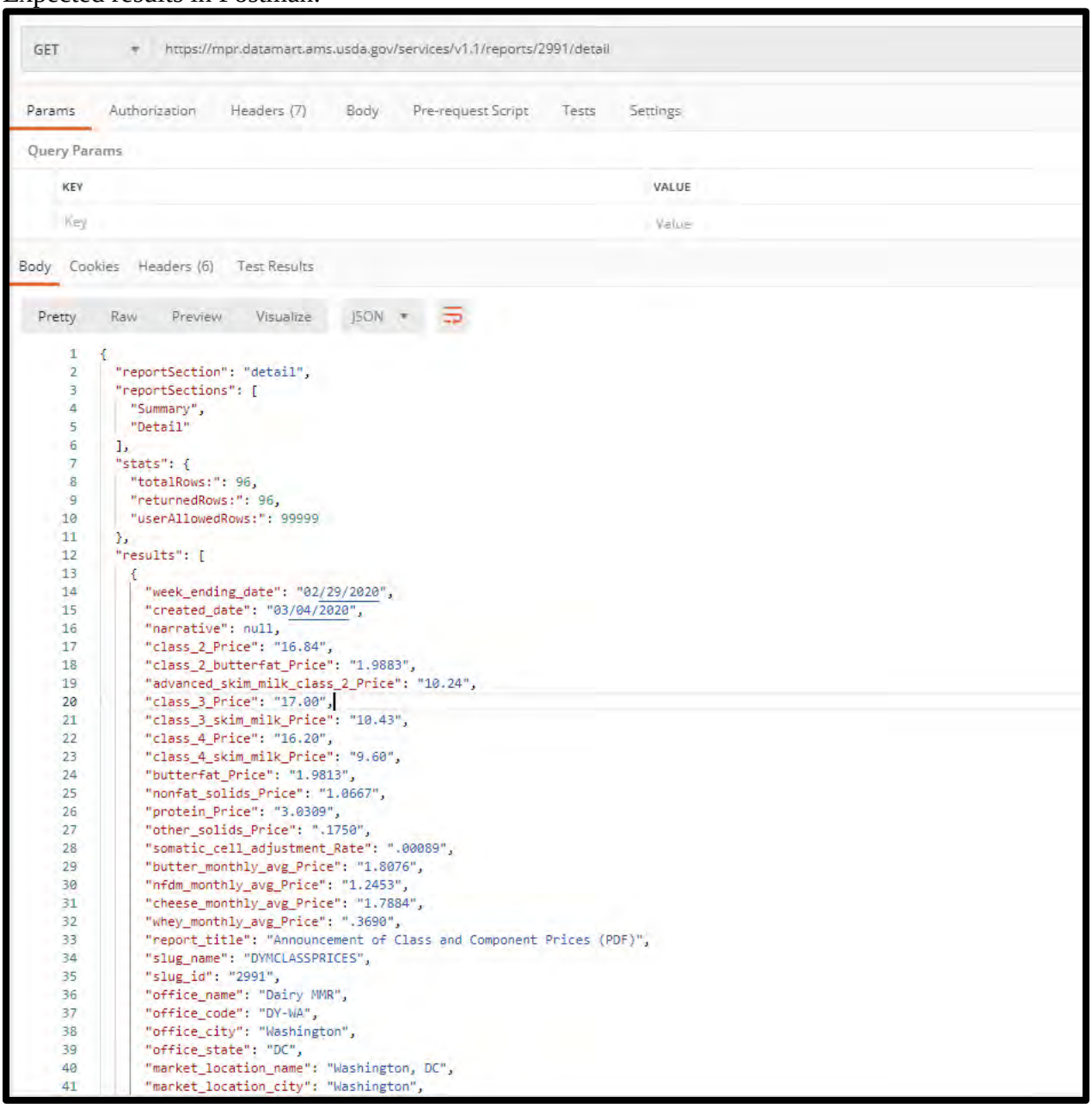
Column1.week_ending_date	Column1.created_date	Column1.narrative	Column1.Week Ending Date	Column1.whey_Price	Column1.whey_Sales	Column1.report_title
08/01/2020	08/05/2020		08/01/2020	0.3496	5,049,880	National Dairy Products Sales Report (PDF)
07/25/2020	07/29/2020		07/25/2020	0.3474	5,543,515	National Dairy Products Sales Report (PDF)
07/18/2020	07/22/2020		07/18/2020	0.3427	4,910,676	National Dairy Products Sales Report (PDF)
07/11/2020	07/15/2020		07/11/2020	0.3470	5,721,767	National Dairy Products Sales Report (PDF)
07/04/2020	07/08/2020		07/04/2020	0.3340	5,368,521	National Dairy Products Sales Report (PDF)
06/27/2020	07/01/2020		06/27/2020	0.3647	4,993,473	National Dairy Products Sales Report (PDF)
06/20/2020	06/24/2020		06/20/2020	0.3553	6,972,651	National Dairy Products Sales Report (PDF)
06/20/2020	06/24/2020		06/20/2020	0.3553	6,972,651	National Dairy Products Sales Report (PDF)
06/13/2020	06/17/2020		06/13/2020	0.3691	7,785,635	National Dairy Products Sales Report (PDF)
06/06/2020	06/10/2020		06/06/2020	0.3661	6,998,124	National Dairy Products Sales Report (PDF)
05/30/2020	06/04/2020		05/30/2020	0.3815	4,997,371	National Dairy Products Sales Report (PDF)
05/23/2020	05/28/2020		05/23/2020	0.3840	7,279,068	National Dairy Products Sales Report (PDF)
05/16/2020	05/20/2020		05/16/2020	0.3849	5,870,671	National Dairy Products Sales Report (PDF)
05/09/2020	05/13/2020		05/09/2020	0.3796	4,666,108	National Dairy Products Sales Report (PDF)
05/02/2020	05/06/2020		05/02/2020	0.3775	4,393,231	National Dairy Products Sales Report (PDF)
04/25/2020	04/29/2020		04/25/2020	0.3723	5,510,620	National Dairy Products Sales Report (PDF)
04/18/2020	04/22/2020		04/18/2020	0.3739	4,754,500	National Dairy Products Sales Report (PDF)
04/11/2020	04/15/2020		04/11/2020	0.3704	5,383,921	National Dairy Products Sales Report (PDF)
04/04/2020	04/08/2020		04/04/2020	0.3771	3,657,890	National Dairy Products Sales Report (PDF)
03/28/2020	04/01/2020		03/28/2020	0.3763	5,807,786	National Dairy Products Sales Report (PDF)
03/21/2020	03/25/2020		03/21/2020	0.3794	6,385,081	National Dairy Products Sales Report (PDF)
03/14/2020	03/18/2020		03/14/2020	0.3722	6,323,757	National Dairy Products Sales Report (PDF)
03/07/2020	03/11/2020		03/07/2020	0.3750	4,943,781	National Dairy Products Sales Report (PDF)
02/29/2020	03/04/2020		02/29/2020	0.3743	5,668,297	National Dairy Products Sales Report (PDF)
02/22/2020	02/26/2020		02/22/2020	0.3700	5,642,919	National Dairy Products Sales Report (PDF)
02/15/2020	02/20/2020		02/15/2020	0.3654	5,827,938	National Dairy Products Sales Report (PDF)
02/08/2020	02/12/2020		02/08/2020	0.3668	4,781,604	National Dairy Products Sales Report (PDF)
02/01/2020	02/05/2020		02/01/2020	0.3529	5,867,359	National Dairy Products Sales Report (PDF)
01/25/2020	01/29/2020		01/25/2020	0.3409	5,707,795	National Dairy Products Sales Report (PDF)
01/18/2020	01/23/2020		01/18/2020	0.3340	6,634,651	National Dairy Products Sales Report (PDF)
01/11/2020	01/15/2020		01/11/2020	0.3255	7,798,231	National Dairy Products Sales Report (PDF)
01/04/2020	01/08/2020		01/04/2020	0.3331	3,506,400	National Dairy Products Sales Report (PDF)
12/28/2019	01/02/2020		12/28/2019	0.3338	3,801,535	National Dairy Products Sales Report (PDF)
12/21/2019	12/26/2019		12/21/2019	0.3368	5,710,879	National Dairy Products Sales Report (PDF)
12/14/2019	12/18/2019		12/14/2019	0.3336	6,517,154	National Dairy Products Sales Report (PDF)
12/07/2019	12/11/2019		12/07/2019	0.3183	7,922,069	National Dairy Products Sales Report (PDF)
11/30/2019	12/04/2019		11/30/2019	0.3209	3,936,290	National Dairy Products Sales Report (PDF)
11/23/2019	11/27/2019		11/23/2019	0.3134	7,263,902	National Dairy Products Sales Report (PDF)
11/16/2019	11/20/2019		11/16/2019	0.2974	6,762,290	National Dairy Products Sales Report (PDF)
11/09/2019	11/14/2019		11/09/2019	0.2997	7,965,961	National Dairy Products Sales Report (PDF)
11/02/2019	11/06/2019		11/02/2019	0.3097	7,465,314	National Dairy Products Sales Report (PDF)
10/26/2019	10/30/2019		10/26/2019	0.3278	8,260,810	National Dairy Products Sales Report (PDF)

To pull the Detail section for the *"Announcement of Class and Component Prices"*, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2991/detail

Denote that for this example the URL is the same for both Postman and Excel.

Expected results in Postman:



Expected results in Excel:

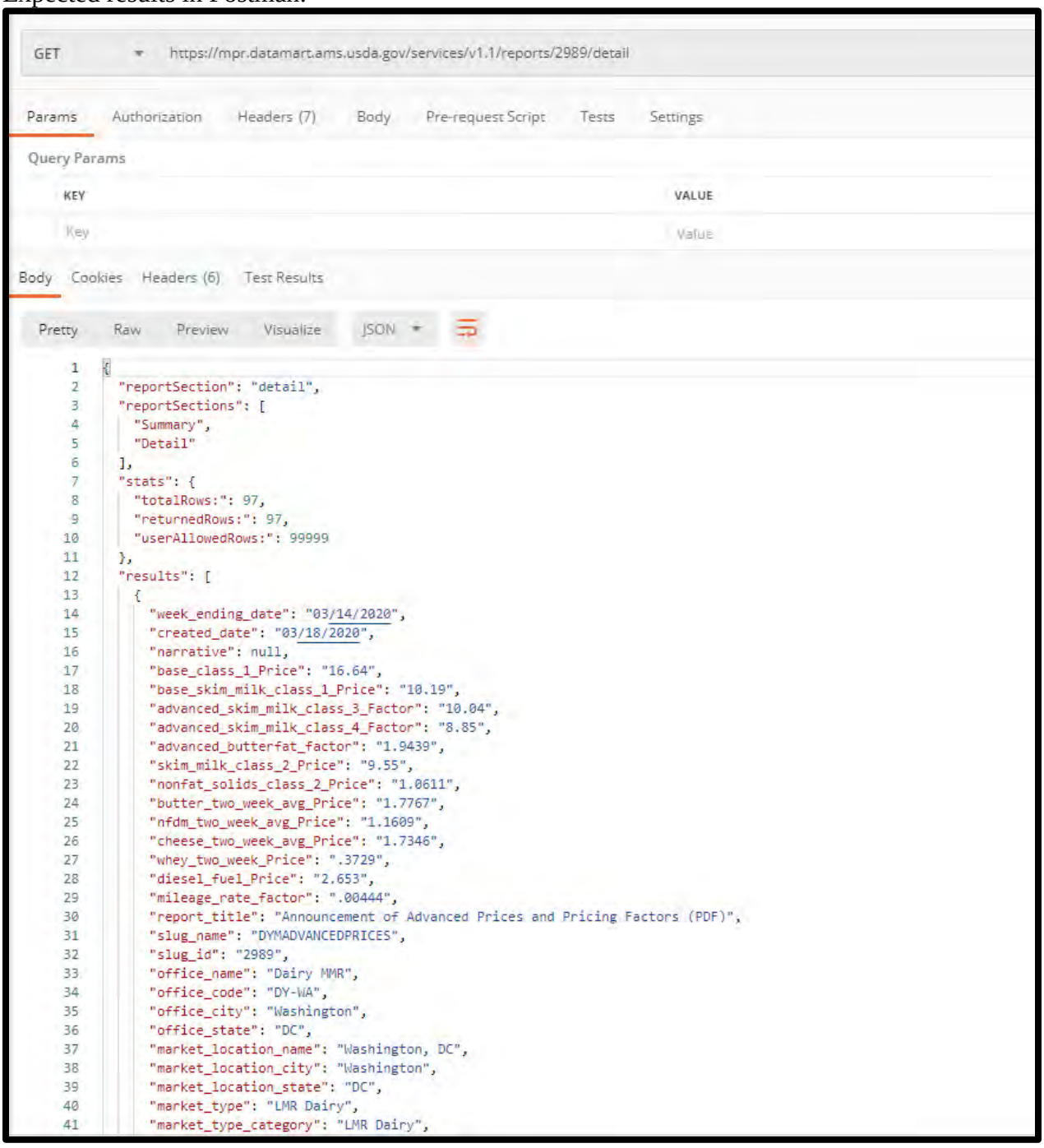
Column1.week_ending_date	Column1.created_date	Column1.class_2_Price	Column1.class_2_butterfat_Price	Column1.advanced_skim_milk_class_2_Price	Column1.class_3_Price	Column1.class_3_skim_milk_Price
02/29/2020	03/04/2020	16.84	1.9883	10.24	17.00	10.43
02/01/2020	02/05/2020	17.05	2.1187	9.98	17.05	10.01
12/28/2019	01/02/2020	16.81	2.2022	9.43	19.37	12.11
11/30/2019	12/04/2019	16.85	2.3265	9.02	20.45	12.78
10/26/2019	10/30/2019	16.68	2.4101	8.54	18.72	10.68
09/28/2019	10/02/2019	16.93	2.5052	8.46	18.31	9.91
08/31/2019	09/05/2019	17.60	2.6644	8.57	17.60	8.60
07/27/2019	07/31/2019	17.61	2.6928	8.48	17.55	8.45
06/29/2019	07/03/2019	17.30	2.6649	8.26	16.27	7.22
06/01/2019	06/05/2019	16.48	2.5788	7.72	16.38	7.65
04/27/2019	05/01/2019	16.38	2.5445	7.75	15.96	7.34
03/30/2019	04/03/2019	16.61	2.5531	7.95	15.04	6.35
02/23/2019	02/27/2019	16.13	2.5415	7.50	13.89	5.20
01/26/2019	01/30/2019	15.74	2.5051	7.22	13.96	5.41
12/29/2018	01/03/2019	15.67	2.5150	7.12	13.78	5.18
12/01/2018	12/05/2018	15.63	2.5455	6.96	14.44	5.76
10/27/2018	10/31/2018	15.54	2.5621	6.81	15.53	6.83
09/29/2018	10/03/2018	15.13	2.5512	6.43	16.09	7.45
08/25/2018	08/29/2018	15.07	2.6079	6.16	14.95	6.06
07/28/2018	08/01/2018	15.20	2.5357	6.55	14.10	5.44
06/30/2018	07/05/2018	15.48	2.6762	6.33	15.21	6.08
05/26/2018	05/31/2018	14.47	2.6309	5.45	15.18	6.21
04/28/2018	05/02/2018	14.03	2.5183	5.41	14.47	5.89
03/31/2018	04/04/2018	13.88	2.4343	5.55	14.22	5.93
02/24/2018	02/28/2018	13.44	2.3560	5.38	13.40	5.37
01/27/2018	01/31/2018	14.11	2.4601	5.70	14.00	5.61
12/30/2017	01/04/2018	14.49	2.5021	5.94	15.44	6.95
11/25/2017	11/29/2017	15.32	2.5616	6.58	16.88	8.23
10/28/2017	11/01/2017	15.95	2.6716	6.84	16.69	7.63
09/30/2017	10/04/2017	16.80	2.8629	7.03	16.36	6.59
08/26/2017	08/30/2017	17.56	3.0179	7.25	16.57	6.25
07/29/2017	08/02/2017	17.48	2.9526	7.41	15.45	5.33
06/24/2017	06/28/2017	16.15	2.7136	6.89	16.44	7.22
05/27/2017	06/01/2017	14.84	2.4204	6.60	15.57	7.38
04/29/2017	05/03/2017	14.81	2.3618	6.78	15.22	7.23
04/01/2017	04/05/2017	16.21	2.4246	8.00	15.81	7.61
02/25/2017	03/01/2017	16.52	2.4344	8.29	16.88	8.69
01/28/2017	02/01/2017	16.36	2.5323	7.77	16.77	8.22
12/31/2016	01/05/2017	15.26	2.3424	7.32	17.40	9.56
11/26/2016	11/30/2016	14.60	2.1114	7.47	16.76	9.74
10/29/2016	11/02/2016	14.09	2.0563	7.14	14.82	7.92

To pull the Detail section for the "*Announcement of Advanced Prices and Pricing Factors"*, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2989/detail

Denote that for this example the URL is the same for both Postman and Excel.

Expected results in Postman:



Expected results in Excel:

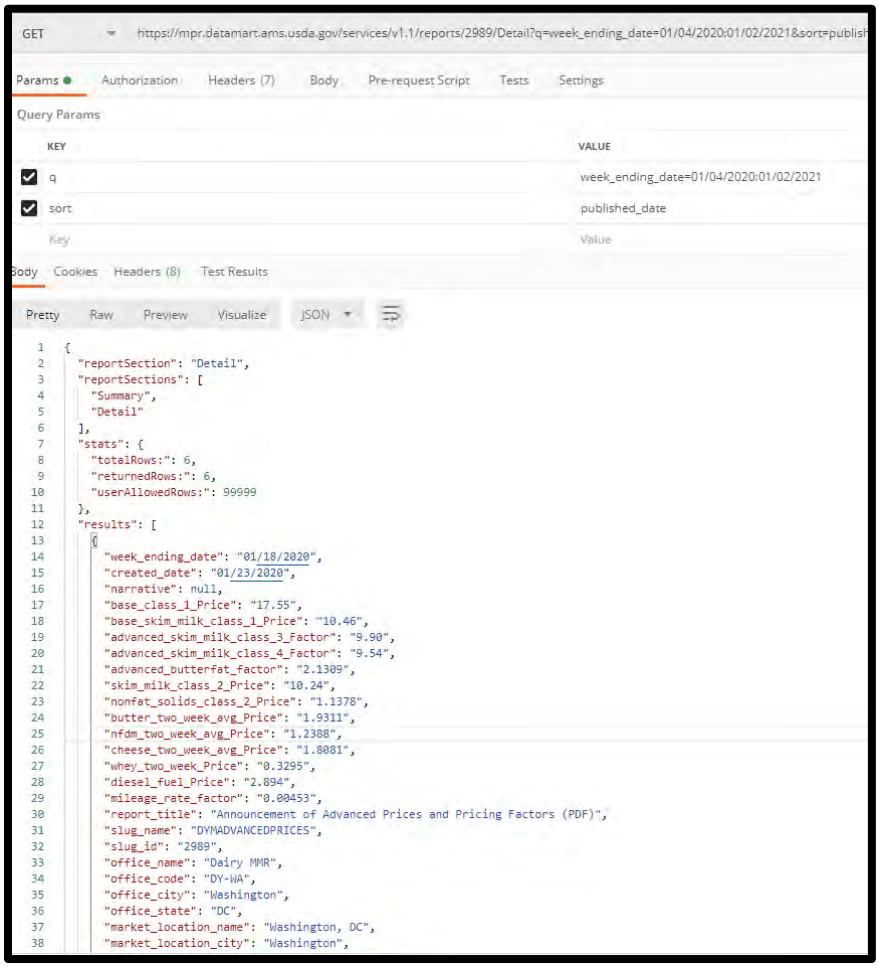
Column1.week_ending_date	Column1.created_date	Column1.base_class_1_Price	Column1.base_skim_milk_class_1_Price	Column1.advanced_skim_milk_class_3_Factor	Column1.advanced_skim_milk_class_4_Factor
03/14/2020	03/18/2020	16.64	10.19	10.04	8.85
02/15/2020	02/20/2020	17.46	10.82	10.47	9.68
01/18/2020	01/23/2020	17.55	10.46	9.90	9.54
12/14/2019	12/18/2019	19.01	11.71	12.65	9.28
11/16/2019	11/20/2019	19.33	11.61	13.01	8.73
10/19/2019	10/23/2019	18.14	10.11	10.42	8.32
09/14/2019	09/18/2019	17.84	9.29	9.26	7.84
08/17/2019	08/21/2019	17.85	8.87	8.49	7.76
07/13/2019	07/17/2019	17.89	8.81	8.27	7.87
06/15/2019	06/19/2019	17.18	8.18	7.09	7.78
05/18/2019	05/22/2019	17.07	8.39	7.74	7.56
04/13/2019	04/17/2019	16.42	7.82	7.14	7.02
03/16/2019	03/20/2019	15.76	7.05	6.35	7.05
02/16/2019	02/21/2019	15.98	7.25	4.97	7.25
01/12/2019	01/16/2019	15.30	6.80	5.47	6.80
12/15/2018	12/19/2018	15.12	6.52	5.16	6.52
11/17/2018	11/21/2018	15.05	6.42	5.85	6.42
10/13/2018	10/17/2018	15.52	6.81	6.81	6.26
09/15/2018	09/19/2018	16.33	7.71	7.71	6.11
08/18/2018	08/22/2018	14.85	5.92	5.92	5.73
07/14/2018	07/18/2018	14.15	5.46	5.39	5.46
06/16/2018	06/20/2018	15.36	6.25	6.25	5.85
05/19/2018	05/23/2018	15.25	6.35	6.35	5.63
04/14/2018	04/18/2018	14.44	5.98	5.98	4.75
03/17/2018	03/21/2018	14.10	5.82	5.82	4.71
02/17/2018	02/22/2018	13.36	5.38	5.38	4.85
01/13/2018	01/18/2018	14.25	5.71	5.71	4.68
12/16/2017	12/20/2017	15.44	6.98	6.98	5.00
11/18/2017	11/22/2017	16.88	8.30	8.30	5.24
10/14/2017	10/18/2017	16.41	7.28	7.28	5.88
09/16/2017	09/20/2017	16.44	6.67	6.67	6.14
08/19/2017	08/23/2017	16.71	6.33	6.21	6.33
07/15/2017	07/19/2017	16.72	6.55	5.07	6.55
06/17/2017	06/21/2017	16.59	7.32	7.32	6.71
05/13/2017	05/17/2017	15.31	7.34	7.34	6.19
04/15/2017	04/19/2017	15.20	7.14	7.14	5.90
03/18/2017	03/22/2017	16.05	7.75	7.75	6.08
02/18/2017	02/23/2017	16.90	8.65	8.65	7.30
01/14/2017	01/19/2017	16.73	8.20	8.20	7.59
12/17/2016	12/21/2016	17.45	9.61	9.61	7.07
11/19/2016	11/23/2016	16.88	9.84	9.84	6.62

To pull the Detail section for the "*Announcement of Advanced Prices and Pricing Factors"* for the entire year of 2020 but Sort with the oldest date first, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2989/Detail?q=week_ending_date=01/04/2020:01/02/2021&sort=published_date

Denote that the week_ending_date parameter is used in a range form of 01/04/2020 to 01/02/2021. This range encompasses all the data for year 2020. The URL is the same for both Postman and Excel.

Expected results in Postman:



Expected results in Excel:

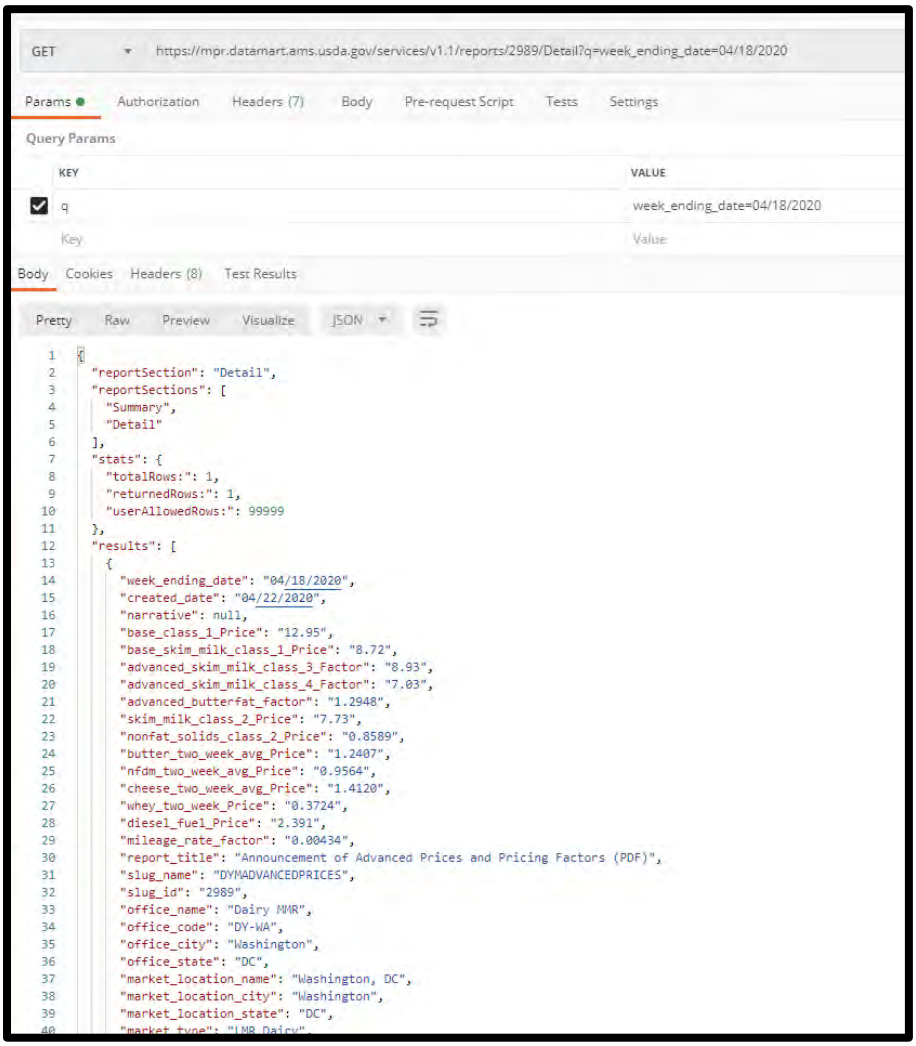
Column1.week_ending_date	Column1.created_date	Column1.base_class_1_Price	Column1.base_skim_milk_class_1_Price	Column1.advanced_skim_milk_class_3_Factor
01/18/2020	01/23/2020	17.55	10.46	9.90
02/15/2020	02/20/2020	17.46	10.82	10.47
03/14/2020	03/18/2020	16.64	10.19	10.04
04/18/2020	04/22/2020	12.95	8.72	8.93
05/16/2020	05/20/2020	11.42	7.08	6.68
06/13/2020	06/17/2020	16.56	10.62	13.29

To pull the Detail section for he "*Announcement of Advanced Prices and Pricing Factors"* for only one report date, e.g. the *May Advanced Prices and Pricing Factors* report, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2989/Detail?q=week_ending_date=04/18/2020

Denote the URL is the same for both Postman and Excel.

Expected results in Postman:



Expected results in Excel:

Column1.week_ending_date	Column1.created_date	Column1.base_class_1	Column	Column1.advanced	Column1.ad	Column1.advanced_	Column1.skim_n
04/18/2020	04/22/2020	12.95	8.72	8.93	7.03	1.2948	7.73

3.3.2 Federal Milk Marketing Order Statistics (FMMOS) Examples

Listed below are some easy ways to pull FMMOS data by section of a particular report using the example syntax:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/nnnn/ssssssss

nnnn = Slug_ID of the desired report.
ssssssss = section name

On the following page, please refer to a table of the FMMOS reports, Slug_ID's and section names.

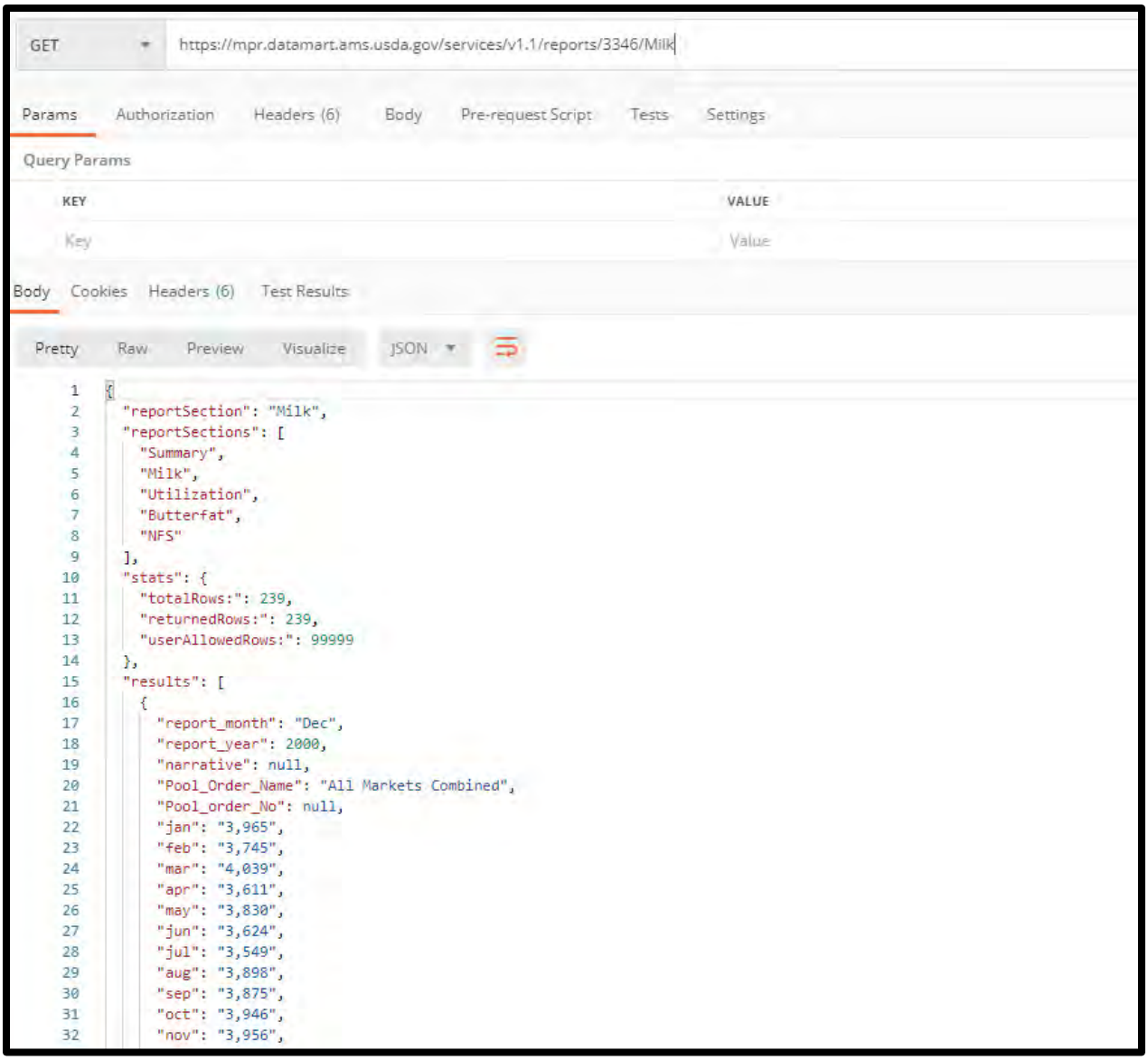
Slug_ID	Report	Report Sections					
3345	Class I Prices	Summary	Milk	Butterfat	Skim		
3346	Class I Utilization	Summary	Milk	Utilization	Butterfat	NFS	
3347	Class II Utilization	Summary	Milk	Utilization	Butterfat	NFS	
3348	Class III Utilization	Summary	Milk	Utilization	Butterfat	Protein	Other Solids
3349	Class IV Utilization	Summary	Milk	Utilization	Butterfat	NFS	
3350 **(Pool Data Prior to October 2020)**	Total Receipts of Producer Milk	Summary	Producers	Receipts	Avg Daily	Butterfat	
			NFS	Protein	Other Solids	SomCell	
3461 **(Pool Data starting with October 2020)**	Producer Receipts	Summary		Producers	Receipts	Avg Daily	
3462 **(Pool Data starting with October 2020)**	Producer Milk Components	Summary	Receipts	Butterfat	NFS	Protein	
					Other Solids	SomCell	
3351	Uniform Milk Prices	Summary	Milk	Butterfat	Skim	PPD	
3352	Price and Pool – Monthly	Summary	Price and Pool Monthly				
3353	Price and Pool – Annual	Summary	Price and Pool Annual				
3354	Advanced Prices by Order	Summary	Advanced Class Prices by Order				
3355	Class Prices by Order	Summary	Final Class Prices by Order				

3356	Retail Prices	Summary	Conventional Whole Milk	Conventional Reduced Fat
			Organic Whole Milk	Organic Reduced Fat
3357	Mailbox Milk Prices	Summary	Mailbox Milk Prices	
3358	Estimated Fluid Milk Sales	Summary	Estimated Total U.S. Sales of Fluid Milk Conventional Products	
			Estimated Total U.S. Sales of Fluid Milk Organic Products	
			Total Package Sales of Fluid Milk Products	
			Estimated Total U.S. Sales - Conventional, Organic and Total	
			Estimated U.S. Sales of Conventional Fluid Milk Products by Month	
			Estimated U.S. Sales of Organic Fluid Milk Products by Month	
			Total Package Sales of Fluid Milk Products by Month	
3359	Regulated Pool Plant Lists	Summary	Distributing Plants by Month	Supply Plants by Month

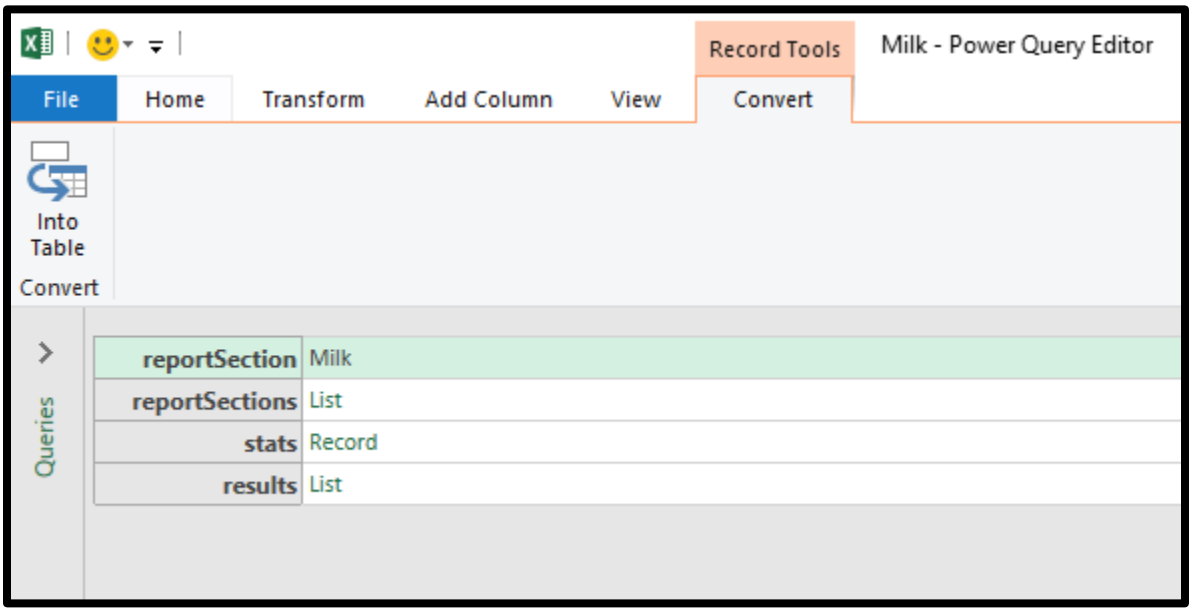
To pull the Milk Section of the "*Class I Utilization*", the sample syntax for Postman would be: https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3346/Milk

Denote the usage of the Slug_ID to access this particular report.

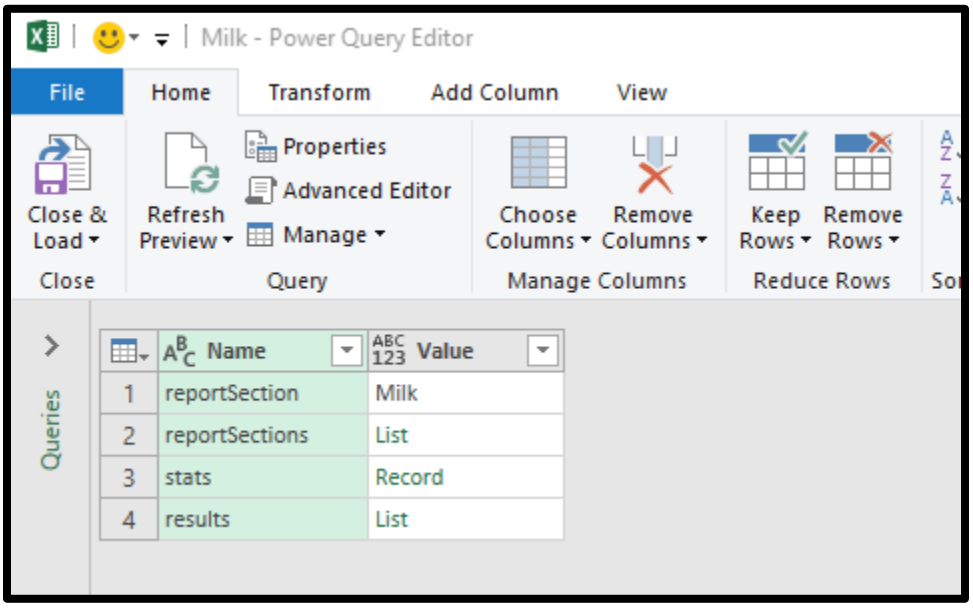
Expected results in Postman:


GET
https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3346/Milk
Params
Authorization
Headers (6)
Body
Pre-request Script
Tests
Settings
Query Params
KEY
VALUE
Key
Value
Body
Cookies
Headers (6)
Test Results
Pretty
Raw
Preview
Visualize
JSON
{
"reportSection": "Milk",
"reportSections": [
"Summary",
"Milk",
"Utilization",
"Butterfat",
"NFS"
],
"stats": {
"totalRows:": 239,
"returnedRows:": 239,
"userAllowedRows:": 99999
},
"results": [
{
"report_month": "Dec",
"report_year": 2000,
"narrative": null,
"Pool_Order_Name": "All Markets Combined",
"Pool_order_No": null,
"jan": "3,965",
"feb": "3,745",
"mar": "4,039",
"apr": "3,611",
"may": "3,830",
"jun": "3,624",
"jul": "3,549",
"aug": "3,898",
"sep": "3,875",
"oct": "3,946",
"nov": "3,956",

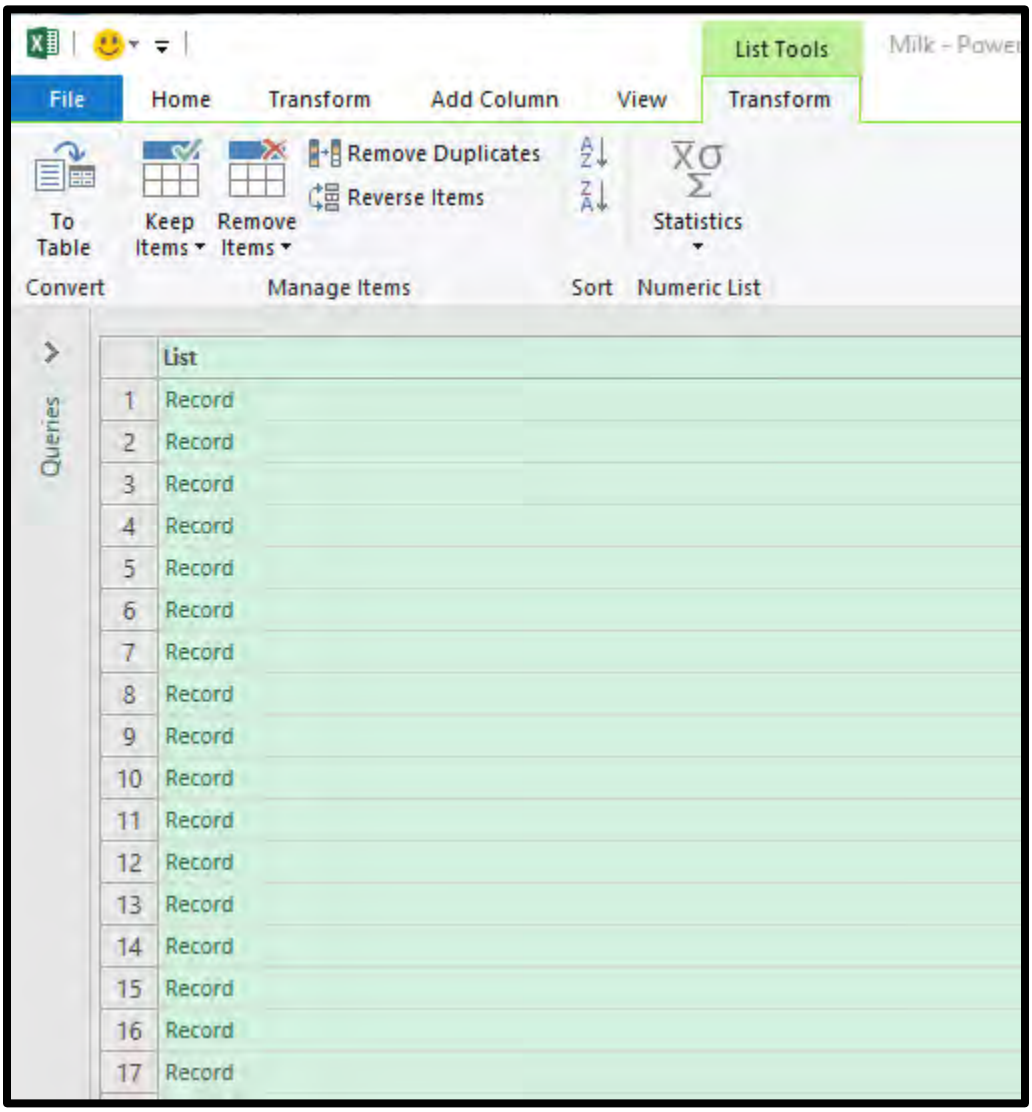
To use the API request in Excel, start by following the first few steps on page 7 above. You will then see the following:



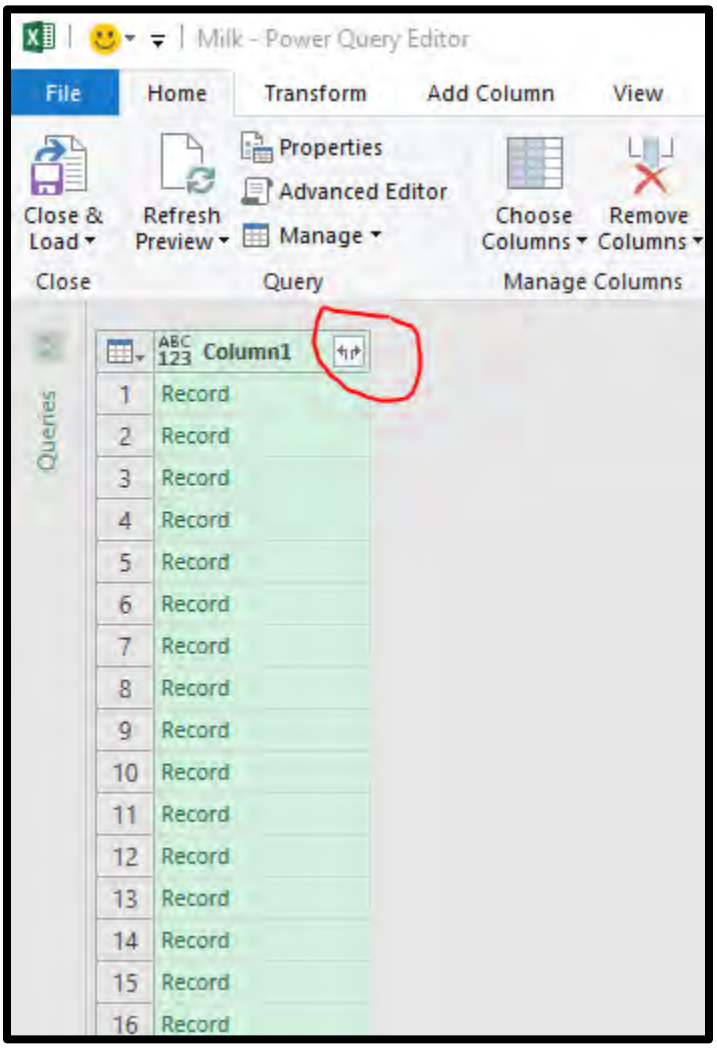
Next, click on the Into Table button on the top left part of the screen. Next you will see:



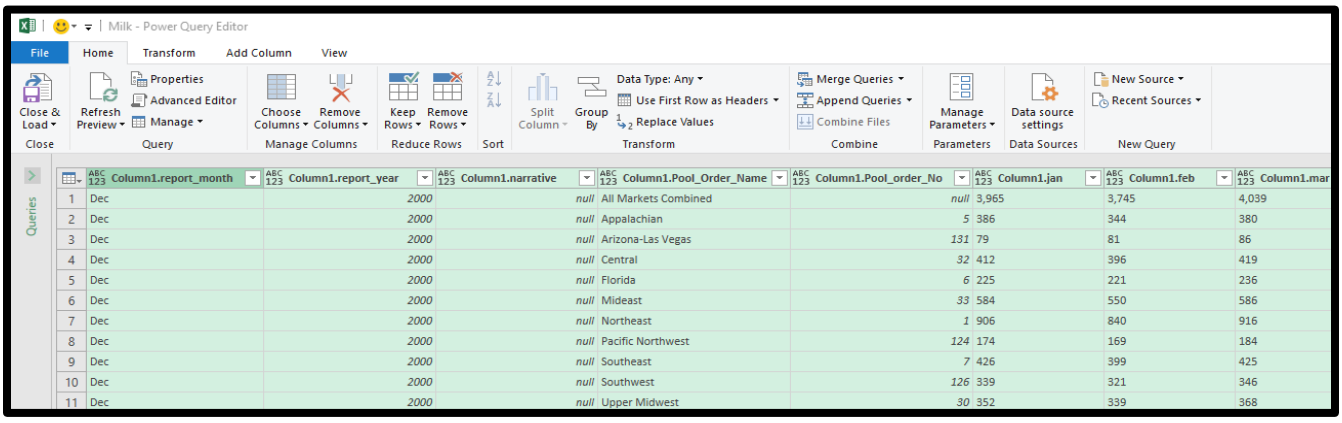
At this point, right click on the List cell in the second column. Click on Drill Down on the menu that pops up. Next you will see a list of records:



Again, you will click on the To Table button in the upper left part of the window. Click Ok when prompted. Your list will now look like this:



Click on the double arrows icon that is circled in red above. Click OK when prompted. This will all the variables associated with the records from your API request as shown below.



At this point, you may sort your data as you choose, and you can remove any columns of data that are not needed for your analysis purposes. I have sorted and reduced the number of variables for the Expected results in Excel snaps you see on the next number of pages.

Expected results in Excel:

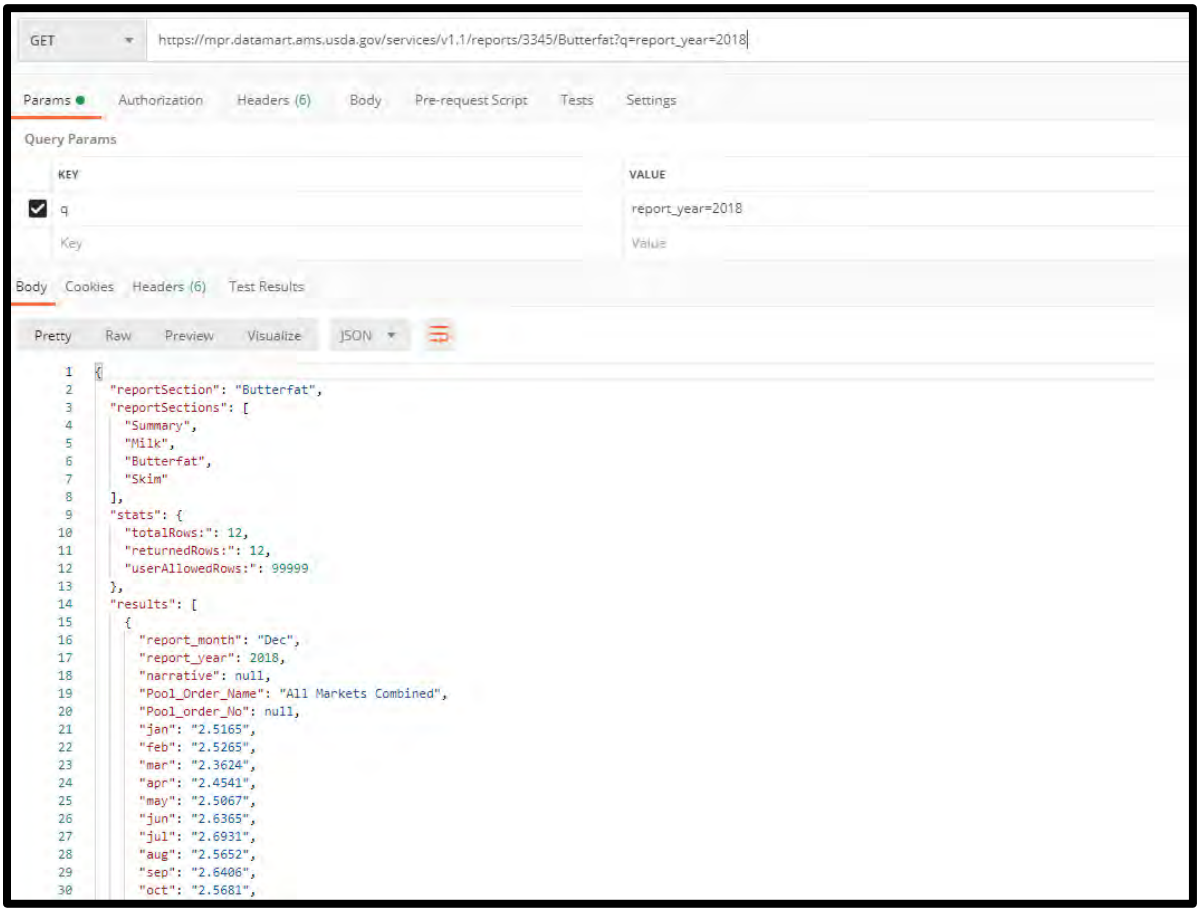
Column1	Column1.report_year	Column	Column1.Pool_Order_Name	Column1.Pool_order_No	Column1.jan	Column1.feb	Column1.mar	Column1.apr	Column1.may	Column1.jun	Column1.jul	Column1.aug	Column1.sep	Column1.oct	Column1.nov	Colu
Dec	2000		All Markets Combined	3,965	3,745	4,039	3,611	3,830	3,624	3,549	3,898	3,875	3,946	3,956	3,952	
Dec	2000		Appalachian	5 386	344	380	341	363	347	340	377	358	366	371	370	
Dec	2000		Arizona-Las Vegas	131 79	81	86	77	82	77	73	85	80	87	85	81	
Dec	2000		Central	32 412	396	419	381	392	377	382	417	418	431	422	429	
Dec	2000		Florida	6 225	221	236	212	215	203	199	202	187	199	209	219	
Dec	2000		Mideast	33 584	550	586	523	556	522	514	579	578	569	578	578	
Dec	2000		Northeast	1 906	840	916	816	868	820	805	868	904	919	914	937	
Dec	2000		Pacific Northwest	124 174	169	184	163	180	168	162	175	181	183	184	177	
Dec	2000		Southeast	7 426	399	425	383	407	389	374	416	405	415	417	411	
Dec	2000		Southwest	126 339	321	346	313	328	314	306	350	335	346	343	330	
Dec	2000		Upper Midwest	30 352	339	368	326	351	327	314	345	345	343	345	338	
Dec	2000		Western	135 84	84	92	76	89	82	79	85	85	87	88	82	
Dec	2001		Western	135 89	81	89	81	88	80	84	91	82	92	91	85	
Dec	2001		Upper Midwest	30 344	312	347	314	331	300	303	339	335	355	349	340	
Dec	2001		Southwest	126 358	311	347	323	335	310	314	357	333	361	349	332	
Dec	2001		Southeast	7 424	380	430	392	404	380	380	409	380	415	410	400	
Dec	2001		Pacific Northwest	124 188	159	182	170	175	166	169	174	167	189	184	175	
Dec	2001		Northeast	1 888	822	953	843	904	841	834	890	881	949	926	910	
Dec	2001		Mideast	33 588	519	592	524	549	509	511	572	542	592	571	562	
Dec	2001		Florida	6 233	209	240	211	213	203	197	199	179	201	203	204	
Dec	2001		Central	32 435	390	433	384	404	376	382	418	397	432	422	407	
Dec	2001		Arizona-Las Vegas	131 84	78	85	77	77	73	73	82	78	83	82	81	
Dec	2001		Appalachian	5 378	334	382	341	364	339	345	387	351	387	379	365	
Dec	2001		All Markets Combined	4,008	3,595	4,081	3,661	3,843	3,576	3,592	3,918	3,725	4,058	3,967	3,864	
Dec	2002		Arizona-Las Vegas	131 85	76	82	78	85	72	78	80	78	86	81	84	
Dec	2002		Central	32 433	381	411	408	399	351	387	422	401	434	423	415	
Dec	2002		All Markets Combined	4,085	3,593	3,876	3,822	3,899	3,407	3,702	3,926	3,785	4,080	3,949	3,919	
Dec	2002		Appalachian	5 406	346	370	369	377	329	368	384	361	391	373	375	
Dec	2002		Florida	6 220	202	218	211	207	186	194	200	173	185	191	207	
Dec	2002		Mideast	33 578	514	550	538	557	476	523	566	541	590	568	551	
Dec	2002		Northeast	1 925	820	897	872	908	813	862	886	892	957	930	933	
Dec	2002		Southwest	126 365	316	338	338	341	302	325	351	338	362	344	336	
Dec	2002		Upper Midwest	30 364	319	346	344	356	294	321	344	340	370	352	343	
Dec	2002		Pacific Northwest	124 187	162	177	175	186	150	173	179	175	189	182	180	

To pull the 2018 Butterfat Section of the "*Class I Prices*", the sample syntax for Postman would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3345/Butterfat?q=report_year=2018

Denote the usage of the Slug_ID and the report_year variables to access this particular report.

Expected results in Postman:



Expected results in Excel:

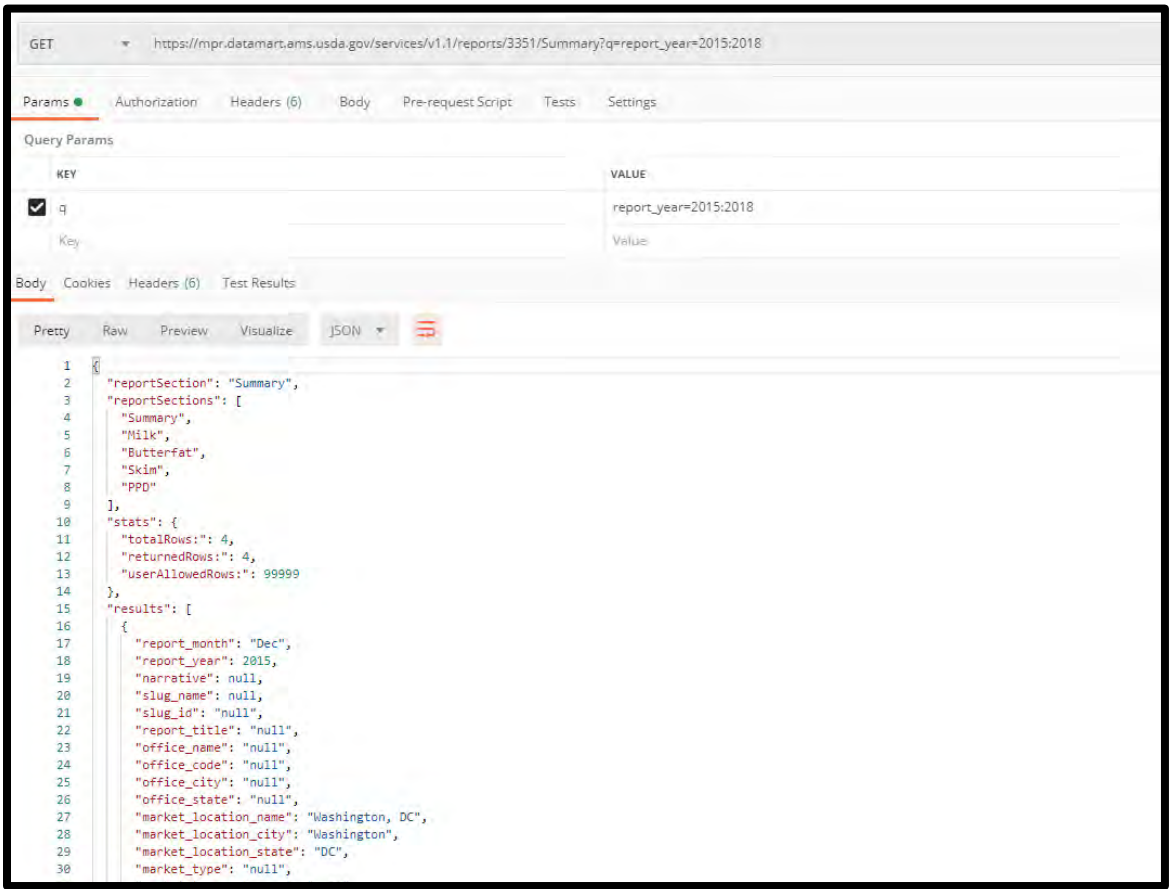
Column1.report_month	Column1.report_year	Column1.narrative	Column1.Pool_Order_Name	Column1.Pool_order_No	Column1.jan	Column1.feb	Column1.mar	Column1.apr	Column1.may	Column1.jun	Column1.jul	Column1.aug	Column1.sep
Dec	2018		All Markets Combined		2.5165	2.5265	2.3624	2.4541	2.5067	2.6365	2.6931	2.5652	2.6406
Dec	2018		Appalachian	5	2.5215	2.5316	2.3674	2.4591	2.5117	2.6414	2.6981	2.5703	2.6458
Dec	2018		Arizona	131	2.5110	2.5211	2.3569	2.4486	2.5012	2.6309	2.6876	2.5598	2.6353
Dec	2018		California	51									
Dec	2018		Central	32	2.5075	2.5176	2.3534	2.4451	2.4977	2.6274	2.6841	2.5563	2.6318
Dec	2018		Florida	6	2.5415	2.5516	2.3874	2.4791	2.5317	2.6614	2.7181	2.5903	2.6658
Dec	2018		Mideast	33	2.5075	2.5176	2.3534	2.4451	2.4977	2.6274	2.6841	2.5563	2.6318
Dec	2018		Northeast	1	2.5200	2.5301	2.3659	2.4576	2.5102	2.6399	2.6966	2.5688	2.6443
Dec	2018		Pacific Northwest	124	2.5065	2.5166	2.3524	2.4441	2.4967	2.6264	2.6831	2.5553	2.6308
Dec	2018		Southeast	7	2.5255	2.5356	2.3714	2.4631	2.5157	2.6454	2.7021	2.5743	2.6498
Dec	2018		Southwest	126	2.5175	2.5276	2.3634	2.4551	2.5077	2.6374	2.6941	2.5663	2.6418
Dec	2018		Upper Midwest	30	2.5055	2.5156	2.3514	2.4431	2.4957	2.6254	2.6821	2.5543	2.6298

To pull the Summary Section for years 2015-2018 of the "*Uniform Milk Prices*", the sample syntax for Postman would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3351/Summary?q=report_year=2015:2018

Denote the usage of the Slug_ID and report_year range to access this particular report. NOTE: This pull would only give you confirmation of the years selected but not any actual data from this report.

Expected results in Postman:



Expected results in Excel:

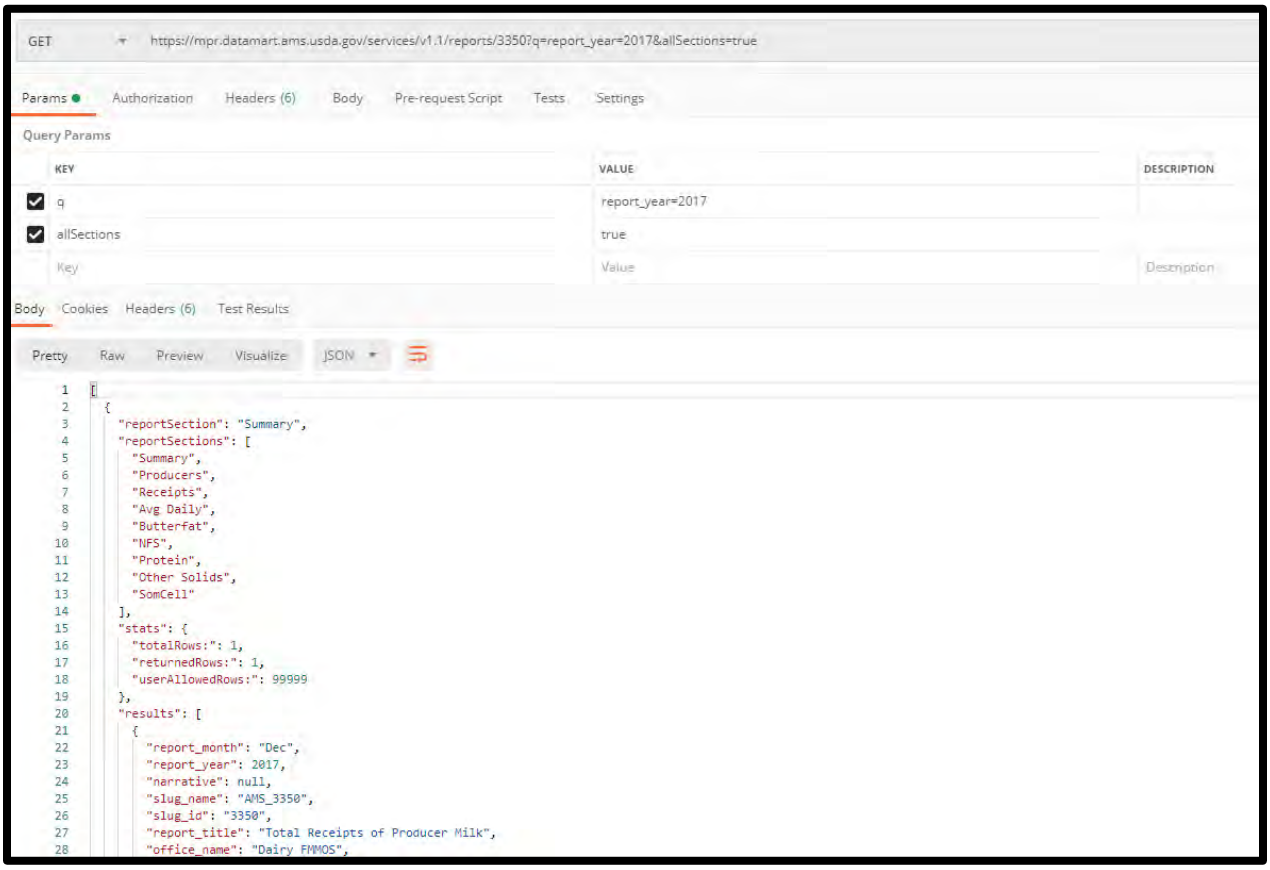
Column1.report_month	Column1.report_year	Column1.narrative	Column1.slug_name	Column1.slug_id	Column1.report_title	Column1.office_name	Column1.office_code	Column1.office_city	Column1.office_state	Column1.market_location_name	Column1.market
Dec	2015			null	null	null	null	null	null	Washington, DC	Washington
Dec	2016			null	null	null	null	null	null	Washington, DC	Washington
Dec	2017			null	null	null	null	null	null	Washington, DC	Washington
Dec	2018			null	null	null	null	null	null	Washington, DC	Washington

To pull all the report sections for 2017 of the "*Total Receipts of Producer Milk*", the sample syntax for Postman would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3350?q=report_year=2017&allSections=true

Denote the usage of the Slug_ID, report_year, and allSections variables to access this particular report.

Expected results in Postman:



Expected results in Excel:

Column1.reportSection	Column1.results.Pool_Order_Name	Column1.results.Pool_order_No	Column1.results.jan	Column1.results.feb	Column1.results.mar	Column1.results.apr	Column1.results.may	Column1.results.jun	Column1.results.jul	Column1.results.aug
Summary										
Producers	All Markets Combined		33,296	32,801	33,260	33,678	32,162	32,688	33,638	34,114
Producers	Appalachian	5	2,072	1,977	1,877	2,037	2,100	2,113	2,018	1,994
Producers	Arizona	131	90	89	88	88	89	89	90	91
Producers	Central	32	2,687	2,699	2,724	2,701	2,491	2,469	2,486	2,511
Producers	Florida	6	143	143	143	143	143	143	143	143
Producers	Mideast	33	5,169	5,088	5,070	5,105	5,024	4,981	4,925	4,920
Producers	Northeast	1	11,413	11,332	11,272	11,017	11,022	10,947	11,239	11,200
Producers	Pacific Northwest	124	446	446	445	446	445	440	532	534
Producers	Southeast	7	1,672	1,672	1,672	1,672	1,672	1,672	1,672	1,672
Producers	Southwest	126	468	500	520	519	424	445	490	508
Producers	Upper Midwest	30	9,136	8,855	9,449	9,950	8,752	9,389	10,043	10,541
Receipts	All Markets Combined		11,517	10,116	12,252	12,202	11,192	11,516	11,921	12,165
Receipts	Appalachian	5	483	432	503	481	487	485	470	494
Receipts	Arizona	131	460	392	458	441	447	433	427	414
Receipts	Central	32	1,270	1,226	1,495	1,461	1,367	1,374	1,436	1,461
Receipts	Florida	6	232	213	236	220	218	204	197	215
Receipts	Mideast	33	1,742	1,610	1,856	1,843	1,736	1,777	1,712	1,669
Receipts	Northeast	1	2,351	2,149	2,396	2,355	2,432	2,270	2,306	2,274
Receipts	Pacific Northwest	124	604	552	619	610	633	616	759	750
Receipts	Southeast	7	493	438	513	502	497	451	422	427
Receipts	Southwest	126	1,339	854	1,239	1,211	918	1,166	1,172	1,241
Receipts	Upper Midwest	30	2,543	2,251	2,936	3,080	2,458	2,740	3,020	3,220
Avg Daily	All Markets Combined		11,158	11,015	11,883	12,077	11,226	11,744	11,432	11,504
Avg Daily	Appalachian	5	7,526	7,804	8,640	7,864	7,476	7,656	7,509	7,997
Avg Daily	Arizona	131	164,991	157,386	167,893	167,167	162,141	162,163	152,891	146,683
Avg Daily	Central	32	15,244	16,228	17,708	18,030	17,697	18,544	18,631	18,769
Avg Daily	Florida	6	52,383	53,200	53,129	51,249	49,271	47,629	44,525	48,534
Avg Daily	Mideast	33	10,872	11,299	11,807	12,031	11,144	11,891	11,213	10,944
Avg Daily	Northeast	1	6,644	6,772	6,857	7,125	7,119	6,913	6,618	6,550
Avg Daily	Pacific Northwest	124	43,685	44,174	44,884	45,562	45,891	46,657	46,045	45,305
Avg Daily	Southeast	7	9,517	9,350	9,902	10,003	9,581	8,991	8,148	8,245
Avg Daily	Southwest	126	92,276	60,988	76,887	77,755	69,856	87,314	77,176	78,772
Avg Daily	Upper Midwest	30	8,977	9,079	10,025	10,319	9,058	9,729	9,700	9,854

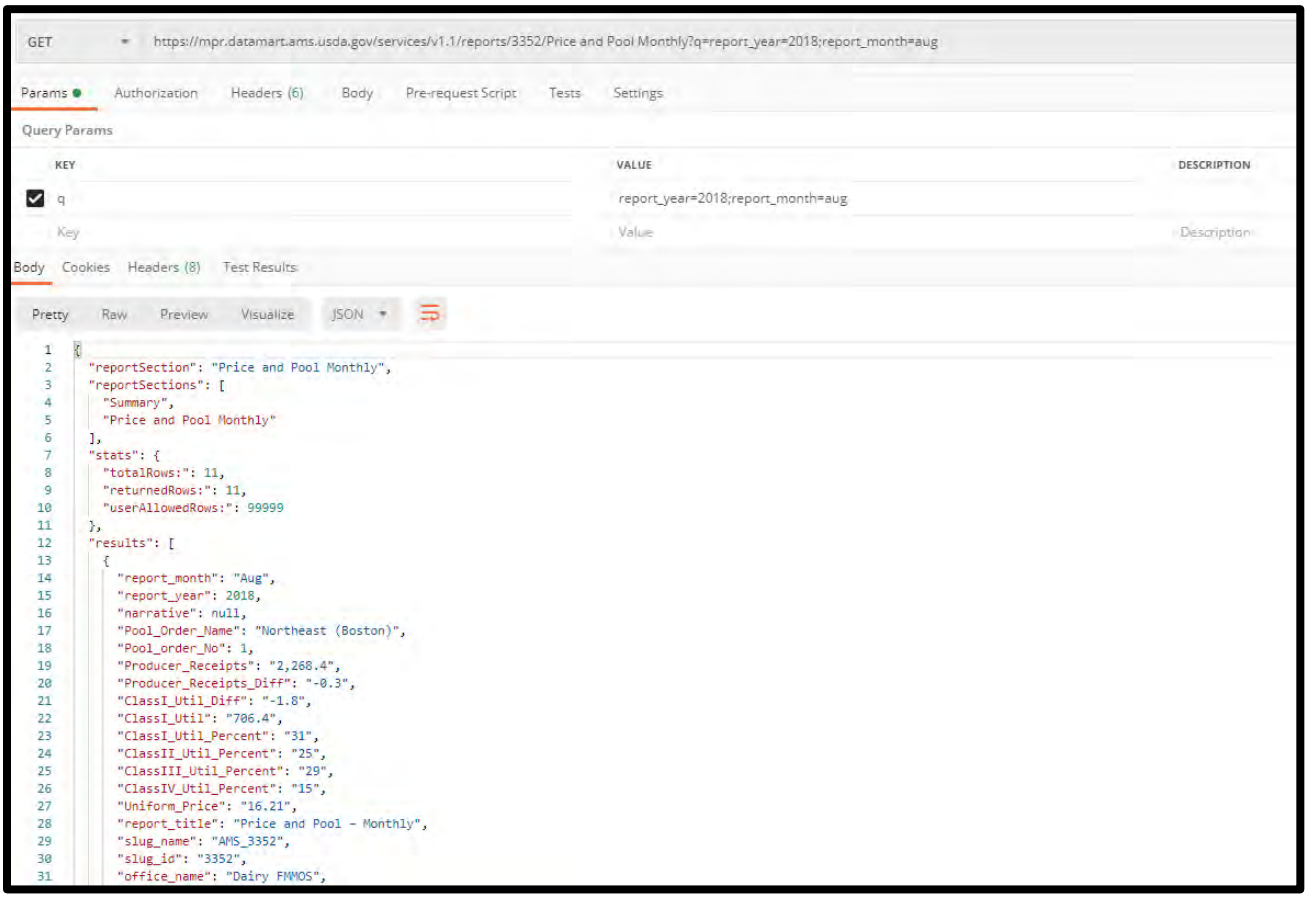
At certain times a data user may want to pull a report for just one month of a particular year. In that situation you would use both the report_year and report_month parameters.

To pull the Price and Pool Monthly section for August 2018 of the "*Price and Pool - Monthly*", the sample syntax for Postman would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/3352/Price and Pool Monthly?q=report_year=2018;report_month=aug

Denote the usage of the Slug_ID, report_year, and report_month (in three characters, e.g. report_month=feb) variables to access this particular report.

Expected results in Postman:



Expected results in Excel:

Column1.report_month	Column1.report_year	Column1.narrative	Column1.Pool_Order_Name	Column1.Pool_order_No	Column1.Producer_Receipts	Column1.Producer_Receipts_Diff	Column1.Classl_Util_Diff	Colu
Aug	2018		Northeast (Boston)	1	2,268.4	-0.3	-1.8	706.4
Aug	2018		Appalachian (Charlotte)	5	473.4	-4.2	-3.1	343.(
Aug	2018		Florida (Tampa)	6	214.9	-0.1	-0.9	179.(
Aug	2018		Southeast (Atlanta)	7	420.9	-1.5	-3.5	318.4
Aug	2018		Upper Midwest (Chicago)	30	2,949.5	-8.4	-5.4	253.4
Aug	2018		Central (Kansas City)	32	1,341.0	-8.2	-2.2	408.8
Aug	2018		Mideast (Cleveland)	33	1,699.3	1.8	-0.5	549.7
Aug	2018		Pacific Northwest (Seattle)	124	636.0	-15.2	-3.2	152.(
Aug	2018		Southwest (Dallas)	126	1,286.5	3.7	2.6	361.3
Aug	2018		Arizona (Phoenix)	131	402.2	-2.8	-5.2	106.4
Aug	2018		ALL MARKET AVERAGE OR TOTAL		11,692.1	-3.9	-1.9	3,379

Please note that the requesting of just one specific month for a particular year will only work on the following reports that have a unique report for each month:

3352 – Price and Pool - Monthly
3354 – Advanced Prices by Order
3355 – Class Prices by Order
3358 – Estimated Fluid Milk Sales

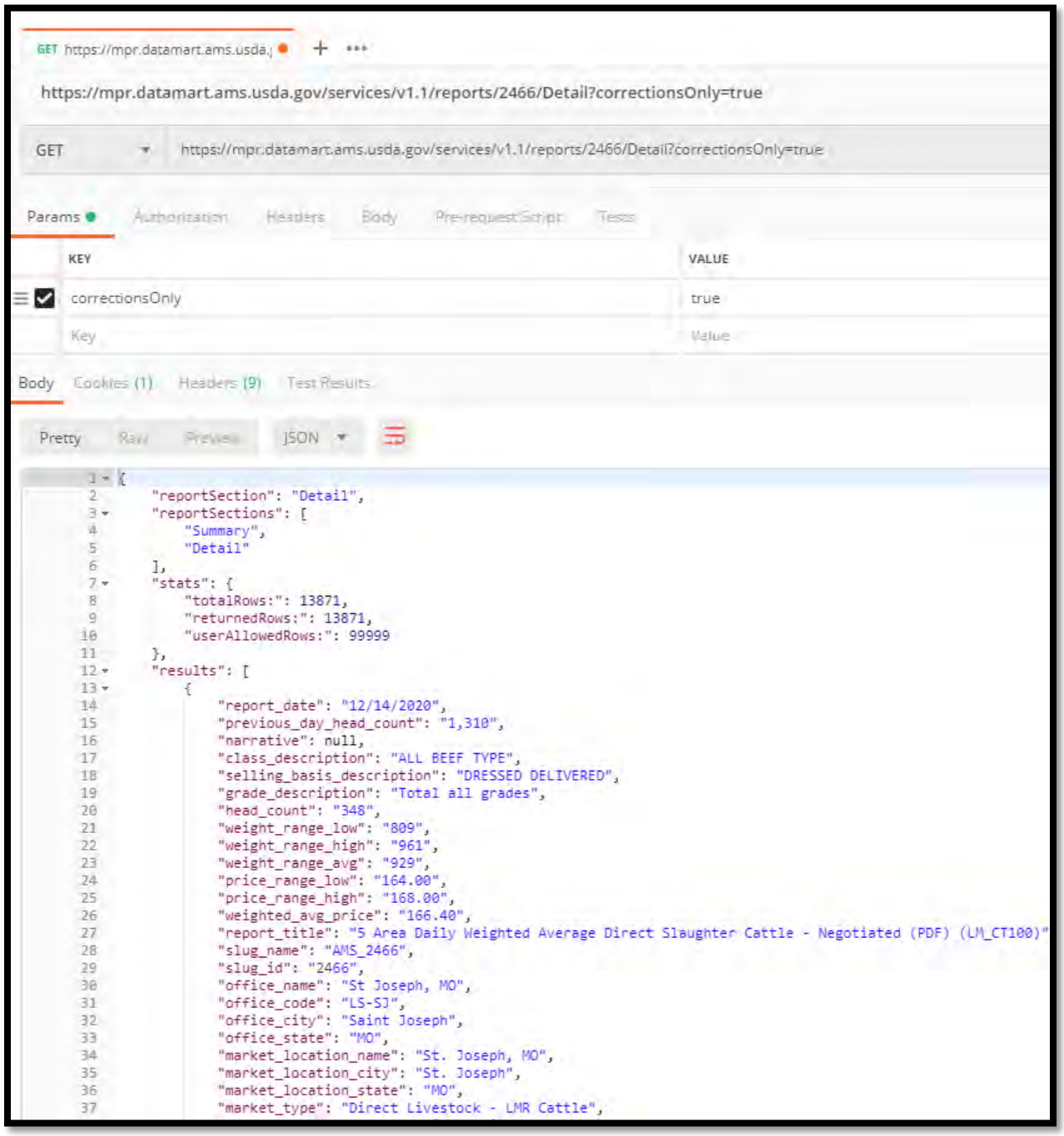
The remainder of the FMMOS reports simply build a year-to-date table that eventually has all monthly data included. For the remainder of the tables, any request can only use report_month=dec.

3.4 Examples of Corrections

To pull Corrections only of the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (PDF) (LM_CT100)*" the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?correctionsOnly=true

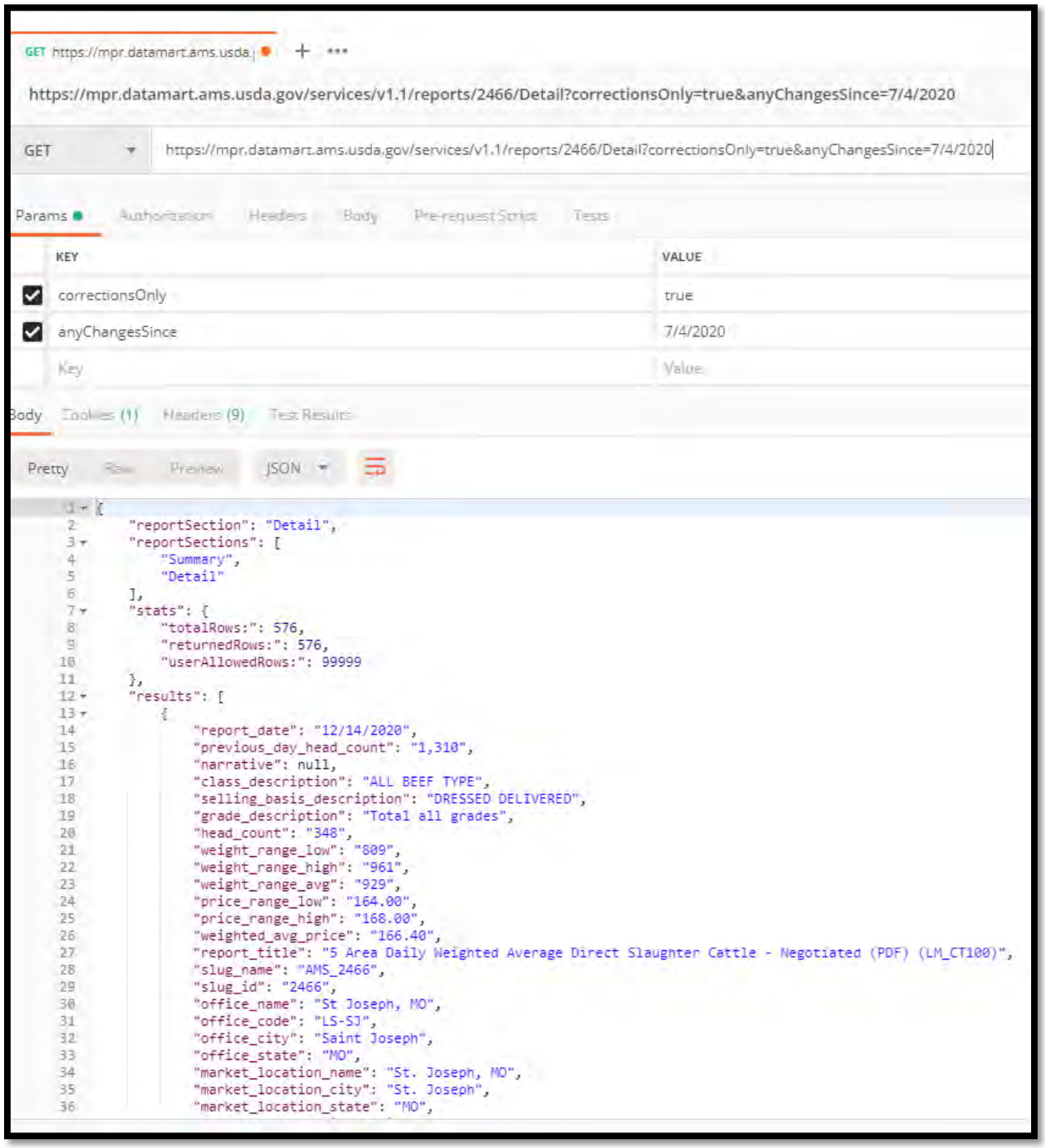
Expected results would be:



To pull Corrections only of the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (PDF) (LM_CT100)*" since 04 July 2020, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?correctionsOnly=true&anyChangesSince=7/4/2020

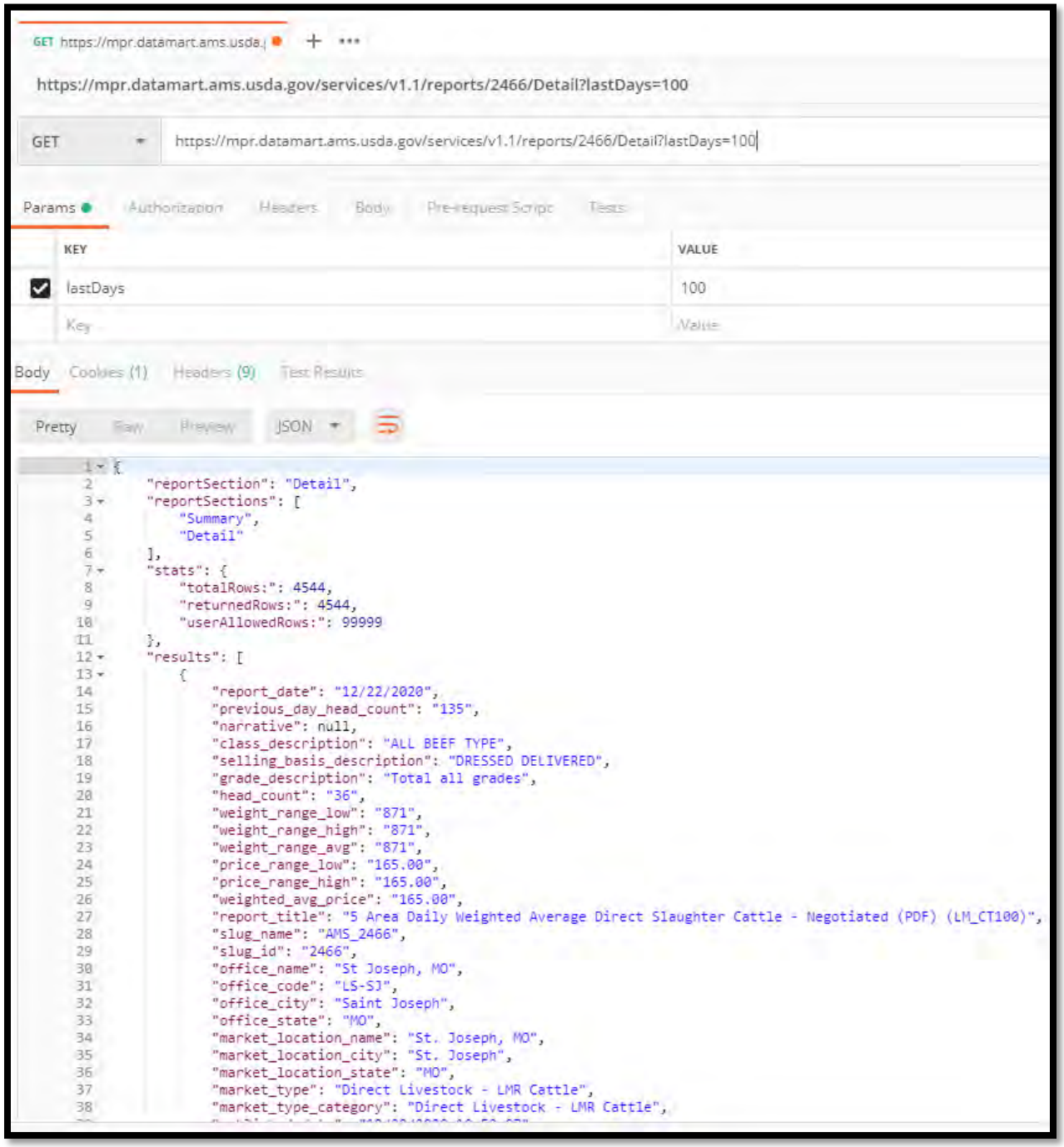
Expected results would be:



To pull the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (PDF) (LM_CT100)*" for the last one hundred days, the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?lastDays=100

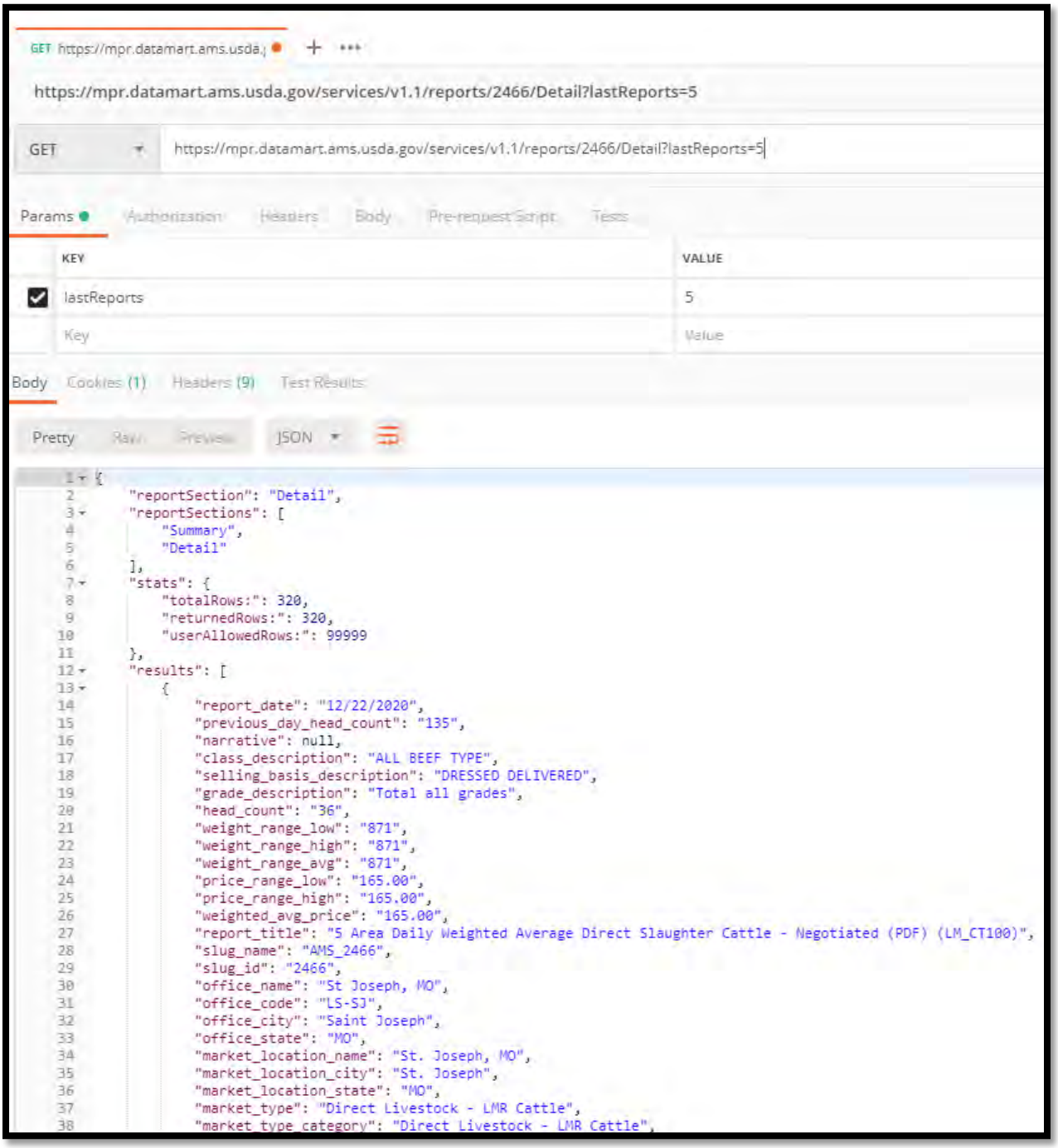
Expected results would be:



To pull last five reports of the Detail section of "*5 Area Daily Weighted Average Direct Slaughter Cattle - Negotiated (PDF) (LM_CT100)*", the sample syntax would be:

https://mpr.datamart.ams.usda.gov/services/v1.1/reports/2466/Detail?lastReports=5

Expected results would be:



4 Report Holidays

There are six national holidays that are usually observed when reports are not issued. Reports resume following these holidays. The observed dates do not follow actual dates for the holiday, but are a subset of observed holidays derived from the U.S. OPM Federal Holiday schedule. The six holidays normally selected from this schedule are as follows:

1. New Year's Day
2. Memorial Day
3. Independence Day
4. Labor Day
5. Thanksgiving Day
6. Christmas Day

Besides the holidays above, extenuating circumstances may also impact the dates when reports are issued.