**EIA Oil Modification**

1. **Purpose;** Scrape data from CSV File instead of XLS file
2. **Sources of Data;**
   1. <https://ir.eia.gov/wpsr/table1.csv>
   2. ….Data\investing\_output.csv
3. **Source Details**
   1. **CSV Table from Web Page (**<https://ir.eia.gov/wpsr/table1.csv>)

Right before the time of release, the website may provide an **Error** page (as in case of .xls file, but it does not automatically download anything).

In case of an error, script will keep trying every **50 milliseconds** for not more than 5 minutes.

Copy & Paste of the **Error Page** and HTML for the web page is provided in **CSV Empty File.docx**

In case, there is no error, webpage will show **CSV file data** as shown in **EIA Oil CSV File.txt**

We are only **interested in Stub 1** data. Stub 1 data has been saved in **EIA Oil CSV File Part Interested.txt**.

This content has been saved in **EIA Oil CSV File Part Interested.xlsx**. In order to **highlight** the data we are interested in.

We are interested in **3 Columns**

* Difference (Column D)
* Percent Change (Column E)
* Percent Change (Column H)

We are interested in **6 Rows**

* Crude Oil [2]
* Commercial (Excluding SPR) [3]
* Total Motor Gasoline [5]
* Distillate Fuel Oil [11]
* Total Stocks (Including SPR) [19]
* Total Stocks (Excluding SPR) [20]

**Note**; Row numbers are 1 less than the row numbers in the .xlsx file. This is because, a row at the top has been added in order to establish correspondence with Final Output

* 1. **CSV File in Data sub-folder** (investing\_output.csv)

CSV File has been saved as .xlsx file (investing\_output.xlsx) in order to highlight the cells we are interested in.**3 Columns**

* Event
* Actual
* forecast

We are only interested in 4 Rows with following **texts** in the **Event** Column. Columns Names of interest for each rows is provided alongside

* API Weekly Crude Oil Stock; Actual
* Crude Oil Inventories; forecast
* EIA Weekly Distillates Stocks; forecast
* Gasoline Inventories; forecast

1. **Output Details**

The desired Output file (EIA Oil Report.htm) will be saved in PDF sub-folder. Contents are shown below;

It would need to be formatted exactly as below;

Zebra pattern rows

Bold Column Headings

Bold Column A Values for Rows 2,3,5 & 6

Bold Values in % vs Forecast Column & % vs Last Wk for rows 2 & 3 & % vs API for row 5.

Column Values for Difference, % vs Last Week & % vs Last Yr will all be derived from <https://ir.eia.gov/wpsr/table1.csv>.

Column Values for Forecast, API will all be derived from investing\_output.csv

Column Values for Difference, Forecast & API will be formatted as “###,##0” & Column Values for all % columns will be formatted as Percent.

% vs Forecast Column Values will be calculated as follows (Difference – Forecast)/ Asbsolute Value for forecast

% vs API Column Values will be calculated as follows (Difference – API)/ Asbsolute Value for API

All the positive values will have red fill and all the negative values will have green fill.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Stub** | **Difference** | **Freocast** | **API** | **% vs Forecast** | **% vs Last Wk** | **% vs API** | **% vs Last Yr** |
| **Crude Oil Ex-SPR** | 2,346 | -418 |  | **661.24%** | **0.60%** |  | -14.60% |
| **Gasoline** | 805 | -279 |  | **388.53%** | **1.50%** |  | -0.70% |
| Crude Oil Total | 1,427 |  |  |  | 0.10% |  | -8.50% |
| **Total Stocks Ex-SPR** | 805 |  | 951 |  | 0.10% | **-15.35%** | -13.10% |
| **Total Stocks** | **-114** |  |  |  | **0.00%** |  | -10.20% |
| EIA Weekly Distillates Stocks | -396 | -1,007 |  | **60.68%** | -0.30% |  | -24.70% |

1. **Email**

HTML Table will also be put in the Email body and an email will sent as per the Specs provided in Control.csv

Subject would contain; “**:EIA\_Oil:**”