

NDAWN ETL

<https://ndawn.ndsu.nodak.edu/> (<https://ndawn.ndsu.nodak.edu/>)

```
In [ ]: # The purpose is to download weather data from NDAWN website.  
        # Create URLs, get a response from the server, & download a csv locally.
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```
In [1]: # Base URL for weather station info  
  
station_info = 'https://ndawn.ndsu.nodak.edu/station-info.html?station='  
print(station_info)  
  
https://ndawn.ndsu.nodak.edu/station-info.html?station=
```

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In [3]: # Get URL for daily weather data for every station & store in a List

for i in range(0,140):
    print(station_info + str(i))
```

[illegible]

[illegible]

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https://ndawn.ndsu.nodak.edu/station-info.html?station=114
https://ndawn.ndsu.nodak.edu/station-info.html?station=115
https://ndawn.ndsu.nodak.edu/station-info.html?station=116
https://ndawn.ndsu.nodak.edu/station-info.html?station=117
https://ndawn.ndsu.nodak.edu/station-info.html?station=118
https://ndawn.ndsu.nodak.edu/station-info.html?station=119
https://ndawn.ndsu.nodak.edu/station-info.html?station=120
https://ndawn.ndsu.nodak.edu/station-info.html?station=121
https://ndawn.ndsu.nodak.edu/station-info.html?station=122
https://ndawn.ndsu.nodak.edu/station-info.html?station=123
https://ndawn.ndsu.nodak.edu/station-info.html?station=124
https://ndawn.ndsu.nodak.edu/station-info.html?station=125
https://ndawn.ndsu.nodak.edu/station-info.html?station=126
https://ndawn.ndsu.nodak.edu/station-info.html?station=127
https://ndawn.ndsu.nodak.edu/station-info.html?station=128
https://ndawn.ndsu.nodak.edu/station-info.html?station=129
https://ndawn.ndsu.nodak.edu/station-info.html?station=130
https://ndawn.ndsu.nodak.edu/station-info.html?station=131
https://ndawn.ndsu.nodak.edu/station-info.html?station=132
https://ndawn.ndsu.nodak.edu/station-info.html?station=133
https://ndawn.ndsu.nodak.edu/station-info.html?station=134
https://ndawn.ndsu.nodak.edu/station-info.html?station=135
https://ndawn.ndsu.nodak.edu/station-info.html?station=136
https://ndawn.ndsu.nodak.edu/station-info.html?station=137
https://ndawn.ndsu.nodak.edu/station-info.html?station=138
https://ndawn.ndsu.nodak.edu/station-info.html?station=139
```

```
In [2]: # Use requests library to work with HTTP
import requests
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In [8]: # Get a response from the server for station 122, Feb 5 2021, rainfall
r = requests.get(base + "122&variable=ddr&year=2020&tttype=daily&quick_pick=7_d
&begin_date=2021-02-05&end_date=2021-02-05")
```

```
In [9]: # Save file locally with:
# open("file_name.csv", "wb").write(r.content)
# File name is arbitrary
# Returns file size if successful

open("weather122.csv", "wb").write(r.content) # wb = write binary or write
```

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Out[9]: 642
```