NDAWN ETL

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

https://ndawn.ndsu.nodak.edu/station-info.html?station=

```
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))
```

```
https://ndawn.ndsu.nodak.edu/station-info.html?station=0
https://ndawn.ndsu.nodak.edu/station-info.html?station=1
https://ndawn.ndsu.nodak.edu/station-info.html?station=2
https://ndawn.ndsu.nodak.edu/station-info.html?station=3
https://ndawn.ndsu.nodak.edu/station-info.html?station=4
https://ndawn.ndsu.nodak.edu/station-info.html?station=5
https://ndawn.ndsu.nodak.edu/station-info.html?station=6
https://ndawn.ndsu.nodak.edu/station-info.html?station=7
https://ndawn.ndsu.nodak.edu/station-info.html?station=8
https://ndawn.ndsu.nodak.edu/station-info.html?station=9
https://ndawn.ndsu.nodak.edu/station-info.html?station=10
https://ndawn.ndsu.nodak.edu/station-info.html?station=11
https://ndawn.ndsu.nodak.edu/station-info.html?station=12
https://ndawn.ndsu.nodak.edu/station-info.html?station=13
https://ndawn.ndsu.nodak.edu/station-info.html?station=14
https://ndawn.ndsu.nodak.edu/station-info.html?station=15
https://ndawn.ndsu.nodak.edu/station-info.html?station=16
https://ndawn.ndsu.nodak.edu/station-info.html?station=17
https://ndawn.ndsu.nodak.edu/station-info.html?station=18
https://ndawn.ndsu.nodak.edu/station-info.html?station=19
https://ndawn.ndsu.nodak.edu/station-info.html?station=20
https://ndawn.ndsu.nodak.edu/station-info.html?station=21
https://ndawn.ndsu.nodak.edu/station-info.html?station=22
https://ndawn.ndsu.nodak.edu/station-info.html?station=23
https://ndawn.ndsu.nodak.edu/station-info.html?station=24
https://ndawn.ndsu.nodak.edu/station-info.html?station=25
https://ndawn.ndsu.nodak.edu/station-info.html?station=26
https://ndawn.ndsu.nodak.edu/station-info.html?station=27
https://ndawn.ndsu.nodak.edu/station-info.html?station=28
https://ndawn.ndsu.nodak.edu/station-info.html?station=29
https://ndawn.ndsu.nodak.edu/station-info.html?station=30
https://ndawn.ndsu.nodak.edu/station-info.html?station=31
https://ndawn.ndsu.nodak.edu/station-info.html?station=32
https://ndawn.ndsu.nodak.edu/station-info.html?station=33
https://ndawn.ndsu.nodak.edu/station-info.html?station=34
https://ndawn.ndsu.nodak.edu/station-info.html?station=35
https://ndawn.ndsu.nodak.edu/station-info.html?station=36
https://ndawn.ndsu.nodak.edu/station-info.html?station=37
https://ndawn.ndsu.nodak.edu/station-info.html?station=38
https://ndawn.ndsu.nodak.edu/station-info.html?station=39
https://ndawn.ndsu.nodak.edu/station-info.html?station=40
https://ndawn.ndsu.nodak.edu/station-info.html?station=41
https://ndawn.ndsu.nodak.edu/station-info.html?station=42
https://ndawn.ndsu.nodak.edu/station-info.html?station=43
https://ndawn.ndsu.nodak.edu/station-info.html?station=44
https://ndawn.ndsu.nodak.edu/station-info.html?station=45
https://ndawn.ndsu.nodak.edu/station-info.html?station=46
https://ndawn.ndsu.nodak.edu/station-info.html?station=47
https://ndawn.ndsu.nodak.edu/station-info.html?station=48
https://ndawn.ndsu.nodak.edu/station-info.html?station=49
https://ndawn.ndsu.nodak.edu/station-info.html?station=50
https://ndawn.ndsu.nodak.edu/station-info.html?station=51
https://ndawn.ndsu.nodak.edu/station-info.html?station=52
https://ndawn.ndsu.nodak.edu/station-info.html?station=53
https://ndawn.ndsu.nodak.edu/station-info.html?station=54
https://ndawn.ndsu.nodak.edu/station-info.html?station=55
https://ndawn.ndsu.nodak.edu/station-info.html?station=56
```

```
https://ndawn.ndsu.nodak.edu/station-info.html?station=57
https://ndawn.ndsu.nodak.edu/station-info.html?station=58
https://ndawn.ndsu.nodak.edu/station-info.html?station=59
https://ndawn.ndsu.nodak.edu/station-info.html?station=60
https://ndawn.ndsu.nodak.edu/station-info.html?station=61
https://ndawn.ndsu.nodak.edu/station-info.html?station=62
https://ndawn.ndsu.nodak.edu/station-info.html?station=63
https://ndawn.ndsu.nodak.edu/station-info.html?station=64
https://ndawn.ndsu.nodak.edu/station-info.html?station=65
https://ndawn.ndsu.nodak.edu/station-info.html?station=66
https://ndawn.ndsu.nodak.edu/station-info.html?station=67
https://ndawn.ndsu.nodak.edu/station-info.html?station=68
https://ndawn.ndsu.nodak.edu/station-info.html?station=69
https://ndawn.ndsu.nodak.edu/station-info.html?station=70
https://ndawn.ndsu.nodak.edu/station-info.html?station=71
https://ndawn.ndsu.nodak.edu/station-info.html?station=72
https://ndawn.ndsu.nodak.edu/station-info.html?station=73
https://ndawn.ndsu.nodak.edu/station-info.html?station=74
https://ndawn.ndsu.nodak.edu/station-info.html?station=75
https://ndawn.ndsu.nodak.edu/station-info.html?station=76
https://ndawn.ndsu.nodak.edu/station-info.html?station=77
https://ndawn.ndsu.nodak.edu/station-info.html?station=78
https://ndawn.ndsu.nodak.edu/station-info.html?station=79
https://ndawn.ndsu.nodak.edu/station-info.html?station=80
https://ndawn.ndsu.nodak.edu/station-info.html?station=81
https://ndawn.ndsu.nodak.edu/station-info.html?station=82
https://ndawn.ndsu.nodak.edu/station-info.html?station=83
https://ndawn.ndsu.nodak.edu/station-info.html?station=84
https://ndawn.ndsu.nodak.edu/station-info.html?station=85
https://ndawn.ndsu.nodak.edu/station-info.html?station=86
https://ndawn.ndsu.nodak.edu/station-info.html?station=87
https://ndawn.ndsu.nodak.edu/station-info.html?station=88
https://ndawn.ndsu.nodak.edu/station-info.html?station=89
https://ndawn.ndsu.nodak.edu/station-info.html?station=90
https://ndawn.ndsu.nodak.edu/station-info.html?station=91
https://ndawn.ndsu.nodak.edu/station-info.html?station=92
https://ndawn.ndsu.nodak.edu/station-info.html?station=93
https://ndawn.ndsu.nodak.edu/station-info.html?station=94
https://ndawn.ndsu.nodak.edu/station-info.html?station=95
https://ndawn.ndsu.nodak.edu/station-info.html?station=96
https://ndawn.ndsu.nodak.edu/station-info.html?station=97
https://ndawn.ndsu.nodak.edu/station-info.html?station=98
https://ndawn.ndsu.nodak.edu/station-info.html?station=99
https://ndawn.ndsu.nodak.edu/station-info.html?station=100
https://ndawn.ndsu.nodak.edu/station-info.html?station=101
https://ndawn.ndsu.nodak.edu/station-info.html?station=102
https://ndawn.ndsu.nodak.edu/station-info.html?station=103
https://ndawn.ndsu.nodak.edu/station-info.html?station=104
https://ndawn.ndsu.nodak.edu/station-info.html?station=105
https://ndawn.ndsu.nodak.edu/station-info.html?station=106
https://ndawn.ndsu.nodak.edu/station-info.html?station=107
https://ndawn.ndsu.nodak.edu/station-info.html?station=108
https://ndawn.ndsu.nodak.edu/station-info.html?station=109
https://ndawn.ndsu.nodak.edu/station-info.html?station=110
https://ndawn.ndsu.nodak.edu/station-info.html?station=111
https://ndawn.ndsu.nodak.edu/station-info.html?station=112
https://ndawn.ndsu.nodak.edu/station-info.html?station=113
```

```
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
```

```
In [8]: # Get a response from the server for station 122, Feb 5 2021, rainfall
    r = requests.get(base + "122&variable=ddr&year=2020&ttype=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
```

Out[9]: 642