In [205…
```
from requests import get
url = 'https://en.wikipedia.org/wiki/List_of_non-water_floods?fbclid=IwZXh0bgNhZW0CMTEAAR7Oixe
response = get(url)
print(response.text[:500])
```

```
<!DOCTYPE html>
<html class="client-nojs vector-feature-language-in-header-enabled vector-feature-language-in-m
ain-page-header-disabled vector-feature-page-tools-pinned-disabled vector-feature-toc-pinned-cl
ientpref-1 vector-feature-main-menu-pinned-disabled vector-feature-limited-width-clientpref-1 v
ector-feature-limited-width-content-enabled vector-feature-custom-font-size-clientpref-1 vector
-feature-appearance-pinned-clientpref-1 vector-feature-night-mode-enabled skin-theme-clientpref
-day vect
```

In [206…
```
from bs4 import BeautifulSoup
html_soup = BeautifulSoup(response.text, 'html.parser')
headers = {'Accept-Language': 'en-US,en;q=0.8'}
type(html_soup)
```

Out[206…
```
bs4.BeautifulSoup
```

In [207…
```
table = html_soup.find_all('table')[1]
print(table)
print(len(table))
```

```
<table class="wikitable sortable">
<caption>List of non-water floods
</caption>
<tbody><tr>
<th scope="col">Name
</th>
<th data-sort-type="date" scope="col">Date
</th>
<th scope="col">Composition of flood
</th>
<th scope="col">Location
</th></tr>
<tr>
<td><a href="/wiki/London_Beer_Flood" title="London Beer Flood">London Beer Flood</a>
</td>
<td>17 October 1814
</td>
<td>Beer
</td>
<td><a href="/wiki/London" title="London">London</a>, England
</td></tr>
<tr>
<td><a href="/wiki/Dublin_whiskey_fire" title="Dublin whiskey fire">Dublin whiskey fire</a>
</td>
<td>18 June 1875
</td>
<td>Whiskey
</td>
<td><a href="/wiki/Dublin" title="Dublin">Dublin</a>, Ireland
</td></tr>
<tr>
<td><a href="/wiki/Great_Molasses_Flood" title="Great Molasses Flood">Great Molasses Flood</a>
</td>
<td>15 January 1919
</td>
<td>Molasses
</td>
<td><a class="mw-redirect" href="/wiki/Boston,_Massachusetts" title="Boston, Massachusetts">Bos
ton, Massachusetts</a>, U.S.
</td></tr>
<tr>
<td><a href="/wiki/Rockwood_%26_Company_shipping_department_fire" title="Rockwood &amp;amp; Company
shipping department fire">Rockwood &amp;amp; Company shipping department fire</a>
</td>
<td>12 May 1919
</td>
<td>Molten chocolate and butter
</td>
<td>New York City, U.S.
</td></tr>
<tr>
<td><a href="/wiki/Aberfan_disaster" title="Aberfan disaster">Aberfan disaster</a>
</td>
<td>21 October 1966
</td>
<td>Mine spoil and water
</td>
<td>Aberfan, Wales, UK
</td></tr>
<tr>
<td><a href="/wiki/Church_Rock_uranium_mill_spill" title="Church Rock uranium mill spill">Churc
h Rock uranium mill spill</a>
```

</td>
<td>16 July 1979
</td>
<td>Uranium tailings
</td>
<td>Church Rock, New Mexico, U.S.
</td></tr>
<tr>
<td>Wisconsin butter flood

</td>
<td>3 May 1991
</td>
<td>Butter, cheese, and processed meat
</td>
<td>Madison, Wisconsin, U.S.
</td></tr>
<tr>
<td>Kingston Fossil Plant coal fly ash slurry spill
</td>
<td>22 December 2008
</td>
<td>Coal byproducts mixed with water
</td>
<td>Kingston, Tennessee, U.S.
</td></tr>
<tr>
<td>Ajka alumina plant accident
</td>
<td>4 October 2010
</td>
<td>Bauxite residue mixed with water (caustic sludge, red in color)
</td>
<td>Ajka, Hungary
</td></tr>
<tr>
<td>Mount Polley Mine
</td>
<td>4 August 2014
</td>
<td>Mine tailings - nickel, arsenic, copper, lead and compounds thereof
</td>
<td>near Likely, British Columbia
</td></tr>
<tr>
<td>Mariana dam disaster
</td>
<td>5 November 2015
</td>
<td>Tailings mixed with water
</td>
<td>Mariana, Brazil
</td></tr>
<tr>

```
<td><a href="/wiki/Pepsi_fruit_juice_flood" title="Pepsi fruit juice flood">Pepsi fruit juice f
lood</a>
</td>
<td>25 April 2017
</td>
<td>Various juices
</td>
<td><a href="/wiki/Lebedyan" title="Lebedyan">Lebedyan</a>, Russia
</td></tr>
<tr>
<td><a href="/wiki/Levira_Distillery" title="Levira Distillery">Levira Distiller wine flood</a>
</td>
<td>10 September 2023
</td>
<td>Red wine
</td>
<td><a href="/wiki/S%C3%A3o_Louren%C3%A7o_do_Bairro" title="São Lourenço do Bairro">São Lourenç
o do Bairro</a>, Portugal
</td></tr></tbody></table>
4
```

In [212…

```python
names = []
dates = []
compositions = []
locations = []

# Loop through each row in the table aside from header
for row in table.find_all('tr')[1:]:
    cols = row.find_all('td')

    if len(cols) >= 4:
        # Name
        name = cols[0].a['title'] if cols[0].a else cols[0].text.strip()
        names.append(name)

        # Date
        date = cols[1].text.strip()
        dates.append(date)

        # Composition
        composition = cols[2].text.strip()
        compositions.append(composition)

        # Location
        location = cols[3].a['title'] if cols[3].a else cols[3].text.strip()
        locations.append(location)
```

In [213…

```python
import pandas as pd

# Create the DataFrame
floods_df = pd.DataFrame({
    'name': names,
    'date': dates,
    'composition': compositions,
    'location': locations
})

# Print info about the DataFrame
print(floods_df.info())

# Show the DataFrame
floods_df
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 13 entries, 0 to 12
Data columns (total 4 columns):
 #   Column       Non-Null Count  Dtype
---  ------       --------------  -----
 0   name         13 non-null     object
 1   date         13 non-null     object
 2   composition  13 non-null     object
 3   location     13 non-null     object
dtypes: object(4)
memory usage: 548.0+ bytes
None
```

Out[213...

	name	date	composition	location
0	London Beer Flood	17 October 1814	Beer	London
1	Dublin whiskey fire	18 June 1875	Whiskey	Dublin
2	Great Molasses Flood	15 January 1919	Molasses	Boston, Massachusetts
3	Rockwood & Company shipping department fire	12 May 1919	Molten chocolate and butter	New York City, U.S.
4	Aberfan disaster	21 October 1966	Mine spoil and water	Aberfan, Wales, UK
5	Church Rock uranium mill spill	16 July 1979	Uranium tailings	Church Rock, New Mexico
6	Wisconsin Butter Fire	3 May 1991	Butter, cheese, and processed meat	Madison, Wisconsin
7	Kingston Fossil Plant coal fly ash slurry spill	22 December 2008	Coal byproducts mixed with water	Kingston, Tennessee
8	Ajka alumina plant accident	4 October 2010	Bauxite residue mixed with water (caustic slud...	Ajka
9	Mount Polley Mine	4 August 2014	Mine tailings - nickel, arsenic, copper, lead ...	Likely, British Columbia
10	Mariana dam disaster	5 November 2015	Tailings mixed with water	Mariana, Minas Gerais
11	Pepsi fruit juice flood	25 April 2017	Various juices	Lebedyan
12	Levira Distillery	10 September 2023	Red wine	São Lourenço do Bairro

In [214...

```
floods_df['date'] = pd.to_datetime(floods_df['date']) # convert date into date time
print(floods_df['date'].dtype)
```

```
datetime64[ns]
```

In [216...

```
floods_df.to_csv('floods_data.csv')
```

In [ ]: