US Foreign Aid

By Lucas Larsen

Initial exploration

```
US Aid to Chile
           1e8
      8
Obligations (Constant Dollars)
      0
```

Fiscal Year

```
import matplotlib.pyplot as plt
plt.close("all")
```

ChileDF.set_index('Fiscal Year', inplace=True)

ChileDF.reset_index(inplace=True)

```
plt.scatter(ChileDF['Fiscal Year'], ChileDF['Obligations (Constant Dollars)'], color='blue')
plt.title('US Aid to Chile')
plt.xlabel('Fiscal Year')
plt.ylabel('Obligations (Constant Dollars)')
plt.grid(True)
plt.xticks(rotation=45)
plt.show()
```

```
ChileEDF['Obligations (Constant Dollars)'].describe()
         3.320000e+02
count
         2.203622e+07
mean
         8.035404e+07
std
        -1.671025e+06
min
25%
         1.026128e+05
50%
         1.286201e+06
75%
         1.018619e+07
         9.261412e+08
max
Name: Obligations (Constant Dollars), dtype: float64
mean_C = ChileEDF['Obligations (Constant Dollars)'].mean()
std_C = ChileEDF['Obligations (Constant Dollars)'].std()
lower bound = mean C - 3 * std C
upper_bound = mean_C + 3 * std_C
FChileEDF = ChileEDF[(ChileEDF['Obligations (Constant Dollars)'] >= lower_bound) &
```

ChileEDF['Obligations (Constant Dollars)'].quantile([0.25,0.75])

Name: Obligations (Constant Dollars), dtype: float64

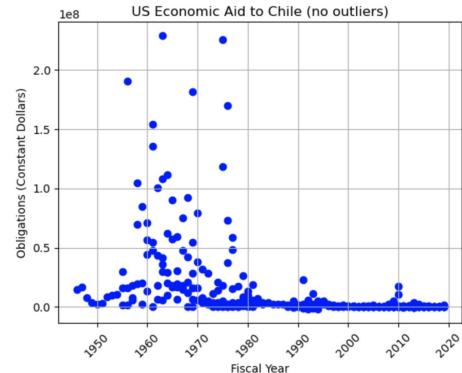
0.25

0.75

1.026128e+05

1.018619e+07





<pre>CCount=USAIDF['Country'].value_counts()</pre>	Country Philippines 251 Turkey 218
CCount	Turkey 218 Thailand 208 World (not specified) 206
Country World (not specified) 1847 Philippines 946 Peru 917 Guatemala 902 Thailand 852	Greece 206 Western Europe (not specified) 2 Central America (not specified) 2 West Africa (not specified) 1 Korea, North 1 Eurasia (not specified) 1 Name: count, Length: 203, dtype: int64
Sweden 25 New Zealand 22 Kiribati 22 Brunei 15 Switzerland 14 Name: count, Length: 204, dtype: int64	EDF=USAIDF[USAIDF['Assistance Category']== 'Economic'] EDFCount=EDF['Country'].value_counts() EDFCount Country World (not specified) 1641 Guatemala 752
<pre>MCount=USAIDF['Assistance Category'].value_counts() MCount</pre>	Peru 737 Kenya 733 Philippines 695
Assistance Category Economic 58221 Military 14416 Name: count, dtype: int64	St. Lucia 12 Brunei 10 Dominica 10 St. Kitts and Nevis 8 Switzerland 8 Name: count, Length: 204, dtype: int64

```
EDF['Obligations (Constant Dollars)'].min()
```

-5402852429.842569

EDF['Obligations (Constant Dollars)'].max()

Western

Europe

36386971527.17872

165

 nestE=EDF[nestE	EDELLODE	igations (constant bot	lars)]== 3638	09/152/.1/8/2		
Fiscal Year	Region	Country	Assistance Category	Publication Row	Funding Agency	Funding Account Name	Obligations (Historical Dollars)

Inactive

Programs

highests SDE [SDE [10h] insting (Constant Dellars) | 26206071527 17072]

Economic

MDF['Obligations	(Constant	Dollars)'l.max())

United

Kingdom

14860350190.008175

1947.0

highestM=MDF[MDF['Obligations	(Constant	Dollars)']==	14860350190.008175]
highestM			

Ignest	Fiscal Year	Region	Country	Assistance Category	Publication Row	Funding Agency	Funding Account	Obligations (Historical	Obligations (Constant
37	1973.0	Asia	Vietnam	Military	Other Military Assistance	Unknown - Historical	Name INACTIVE - MASF	Dollars) 3.226834e+09	Dollars) 1.486035e+10

Greenbook

Department of

the Treasury

INACTIVE -

British Loan

3.750000e+09

Grants

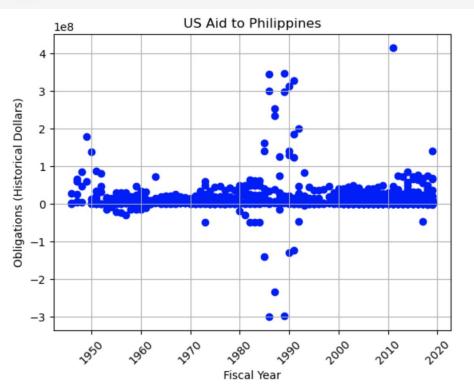
Obligations

3.638697e+10

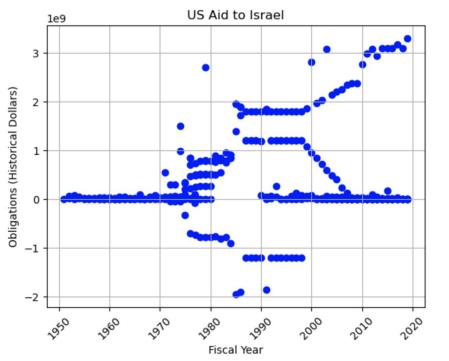
(Constant

Dollars)

```
plt.scatter(PhDF['Fiscal Year'], PhDF['Obligations (Historical Dollars)'], color='blue')
plt.title('US Aid to Philippines')
plt.xlabel('Fiscal Year')
plt.ylabel('Obligations (Historical Dollars)')
plt.grid(True)
plt.xticks(rotation=45)
plt.show()
```

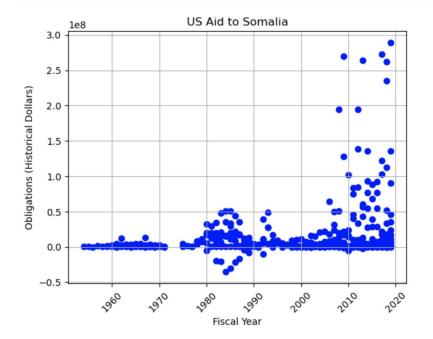






```
SoDF = USAIDF[(USAIDF['Country'] == 'Somalia')]
plt.scatter(SoDF['Fiscal Year'], SoDF['Obligations (Historical Dollars)'], color='blue')
plt.title('US Aid to Somalia')
plt.xlabel('Fiscal Year')
plt.ylabel('Obligations (Historical Dollars)')
plt.grid(True)
plt.xticks(rotation=45)
```

plt.show()



MEDF=USAIDF[USAIDF['Region'] == 'Middle East and North Africa'] MEDFCount=MEDF['Country'].value_counts() MEDFCount

Country		
Jordan	746	
Morocco	674	
Egypt	666	
Tunisia	526	
Lebanon	508	
Iraq	456	
Yemen	436	
Israel	402	
Middle East & North Africa (not specified)	363	
West Bank/Gaza	245	
Algeria	233	
Libya	220	
Oman	215	
Iran	207	
Syria	182	
Saudi Arabia	122	
Bahrain	122	
United Arab Emirates	65	
Kuwait	35	
Qatar	32	
Name: count, dtype: int64		

<pre>MEEDF=EDF[EDF['Region']== 'Middle East and N MEEDFCount=MEEDF['Country'].value_counts()</pre>	lorth Africa']	<pre>MEMDF=MDF[MDF['Region']== 'Middle East and MEMDFCount=MEMDF['Country'].value_counts()</pre>	North A	frica']
MEEDFCount		MEMDFCount		
Country Jordan Egypt Morocco Lebanon Yemen Iraq Middle East & North Africa (not specified) Tunisia Israel West Bank/Gaza Algeria Syria Libya Iran Oman Saudi Arabia United Arab Emirates Bahrain Kuwait Qatar Name: count, dtype: int64	545 539 500 378 366 360 345 343 292 239 182 171 169 135 127 62 55 51 31 28	Country Jordan Tunisia Morocco Lebanon Egypt Israel Iraq Oman Iran Bahrain Yemen Saudi Arabia Libya Algeria Middle East & North Africa (not specified) Syria United Arab Emirates West Bank/Gaza Kuwait Qatar Name: count, dtype: int64	201 183 174 130 127 110 96 88 72 71 70 60 51 18 11 10 6 4	Country Israel Jordan Morocco Philippin Turkey
<pre>FMFPDF=USAIDF[USAIDF['Funding Account Name'].is FMFPDF['Country'].value_counts()</pre>	in(['Foreign Mil	itary Financing Program','Foreign Military Fina	ncing	Singapore Germany

FMFPDF=USAIDF[USAIDF['Funding Account Name'].isin(['Foreign Military Financing Program', 'Foreign Military Financing Germany 2

Empty Empty FmfPDF['Country'].value_counts()

Singapore 2

Germany 2

Central America (not specified) 2

Equatorial Guinea 1

New Zealand 1

Name: count, Length: 166, dtype: int64

Country Obligations (Historical Dollars)

0	Afghanistan	1.118922e+09
1	Albania	9.025864e+07
2	Angola	2.950000e+06
3	Antigua and Barbuda	1.278800e+07
4	Argentina	2.405349e+08
161	Vietnam	1.193578e+09
162	World (not specified)	1.407172e+09
163	Yemen	1.807460e+08
164	Zambia	1.250000e+06
165	Zimbabwe	2.240000e+06

166 rows × 2 columns

Country Obligations (Historical Dollars)

75 Israel 9.985807e+10 48 Egypt 4.828408e+10 153 Turkey 8.968293e+09 79 Jordan 7.575280e+09 62 Greece 7.166607e+09 53 Eswatini 6.389272e+05 88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05 50 Equatorial Guinea 3.190000e+05		Country	obligations (motorical boliars)
153 Turkey 8.968293e+09 79 Jordan 7.575280e+09 62 Greece 7.166607e+09 53 Eswatini 6.389272e+05 88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05	75	Israel	9.985807e+10
79 Jordan 7.575280e+09 62 Greece 7.166607e+09 53 Eswatini 6.389272e+05 88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05	48	Egypt	4.828408e+10
62 Greece 7.166607e+09 53 Eswatini 6.389272e+05 88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05	153	Turkey	8.968293e+09
53 Eswatini 88 Lesotho 29 Central African Republic 36 Congo (Brazzaville) 3.530000e+05	79	Jordan	7.575280e+09
53 Eswatini 6.389272e+05 88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05	62	Greece	7.166607e+09
88 Lesotho 5.700562e+05 29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05			
29 Central African Republic 3.700000e+05 36 Congo (Brazzaville) 3.530000e+05	53	Eswatini	6.389272e+05
36 Congo (Brazzaville) 3.530000e+05	88	Lesotho	5.700562e+05
	29	Central African Republic	3.700000e+05
50 Equatorial Guinea 3.190000e+05	36	Congo (Brazzaville)	3.530000e+05
	50	Equatorial Guinea	3.190000e+05

166 rows x 2 columns

FMFPDFgrouped.sort_values('Obligations (Historical Dollars)', ascending=False)

Country Obligations (Constant Dollars)

89	Israel	1.720461e+11
0	Afghanistan	9.144610e+10
195	Vietnam	8.540254e+10
58	Egypt	7.523967e+10
185	Turkey	4.632681e+10
•••		
198	Western Europe (not specified)	1.103259e+05
49	Cyprus	9.034160e+04
174	Sweden	5.640337e+04
88	Ireland	5.521934e+04
97	Korea, North	8.169007e+03

MDFgrouped=MDF.groupby('Country')['Obligations (Constant Dollars)'].sum().reset_index()
MDFgrouped.sort_values('Obligations (Constant Dollars)', ascending=False)



203 rows x 2 columns

Conclusion

- In past research I have done for other classes, analyzing this relationship between U.S. foreign aid and specific countries would be highly useful.
 - For example, the relationship between the US and Israel, which clearly shows a consistent, high-dollar commitment by the US to Israel, especially in terms of direct foreign military aid.
- Visualizing the U.S. role in different historical matters would be useful for other research.
 - For example, seeing the impact of certain world events, like the end of the Marcos dictatorship
 in the Philippines, the start of the 2011 Famine in Somalia, the role the US had in rebuilding
 Europe after WWII, or the role it had in the invasion of Afghanistan and Vietnam.
- I will use this to guide my future research, especially when it pertains to US intervention.

Sources

- https://www.usaid.gov/developer/greenbookapi
- https://www.britannica.com/place/Philippines/Martial-law
- https://www.dec.org.uk/appeal/east-africa-crisis-appeal-2011#:~:text=In%202 011%20the%20worst%20droughts,urgent%20need%20of%20humanitarian% 20assistance.