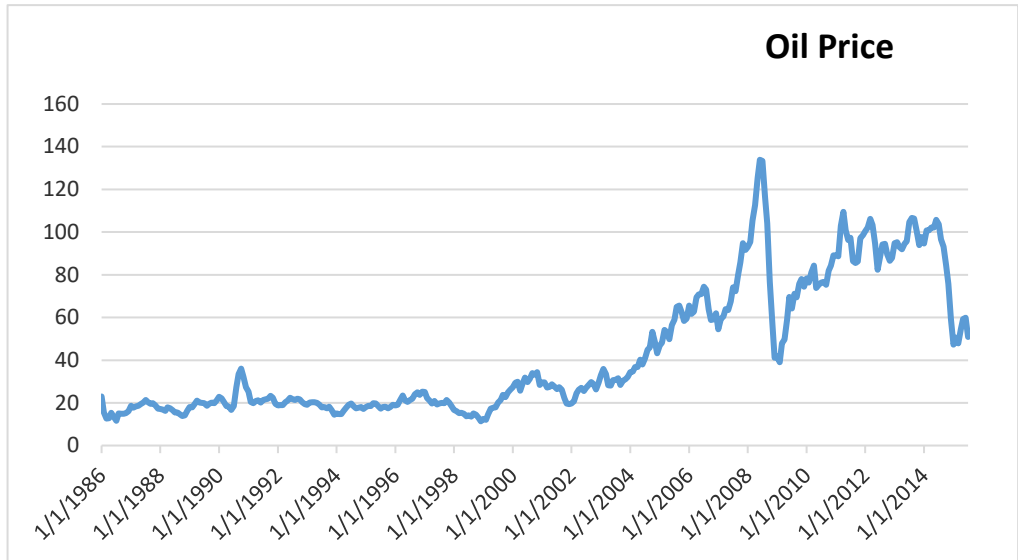


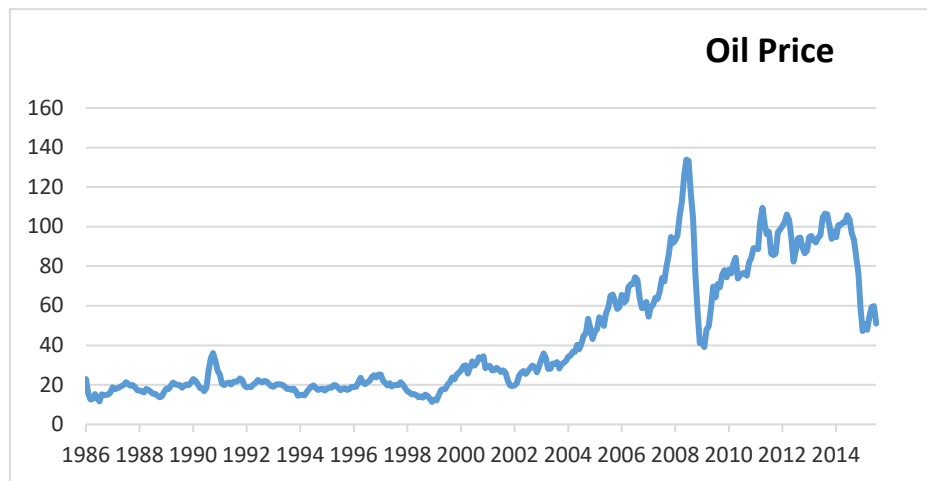
Title: Crude Oil Prices: West Texas Intermediate (WTI) - Cushing, Oklahoma
 Series ID: DCOILWTICO
 Source: US. Energy Information Administration
 Release: Spot Prices (Not a Press Release)
 Seasonal Adj: Not Seasonally Adjusted
 Frequency: **Monthly**
 Aggregation: **Average**
 Units: Dollars per Barrel
 Date Range: 1986-01-02 to 2015-08-17
 Last Update: 2015-08-19 1:41 PM CDT
 Notes: Definitions, Sources and Explanatory Notes:
http://www.eia.doe.gov/dnav/pet/TblDefs/pet_pri_spt_tbldef2.asp
 Source: <https://research.stlouisfed.org/fred2/series/DCOILWTICO/downloaddata>
 Filename: Excel2013-Graph-Ratio-Display-Demo.xlsx

Select A18:B373 Graph 1 Vertical axis is linear. Horizontal is MM/DD/YYYY. Show every 24 months:

| DATE | Oil Price |
|------------|-----------|
| 1986-01-01 | 22.93 |
| 1986-02-01 | 15.45 |
| 1986-03-01 | 12.61 |
| 1986-04-01 | 12.84 |
| 1986-05-01 | 15.38 |
| 1986-06-01 | 13.43 |
| 1986-07-01 | 11.58 |
| 1986-08-01 | 15.10 |
| 1986-09-01 | 14.87 |
| 1986-10-01 | 14.90 |
| 1986-11-01 | 15.22 |
| 1986-12-01 | 16.11 |
| 1987-01-01 | 18.65 |
| 1987-02-01 | 17.75 |
| 1987-03-01 | 18.30 |
| 1987-04-01 | 18.68 |
| 1987-05-01 | 19.44 |
| 1987-06-01 | 20.07 |
| 1987-07-01 | 21.34 |
| 1987-08-01 | 20.31 |
| 1987-09-01 | 19.53 |
| 1987-10-01 | 19.86 |
| 1987-11-01 | 18.85 |
| 1987-12-01 | 17.27 |
| 1988-01-01 | 17.13 |
| 1988-02-01 | 16.80 |
| 1988-03-01 | 16.20 |
| 1988-04-01 | 17.86 |
| 1988-05-01 | 17.42 |
| 1988-06-01 | 16.53 |
| 1988-07-01 | 15.50 |
| 1988-08-01 | 15.52 |
| 1988-09-01 | 14.54 |
| 1988-10-01 | 13.77 |



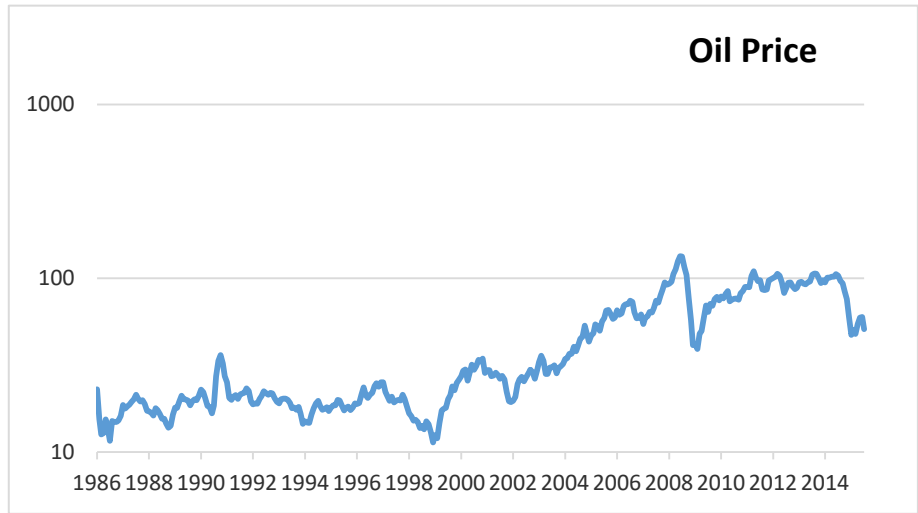
Graph 2 Vertical axis is linear. Horizontal is YYYY. Show every 2nd year.



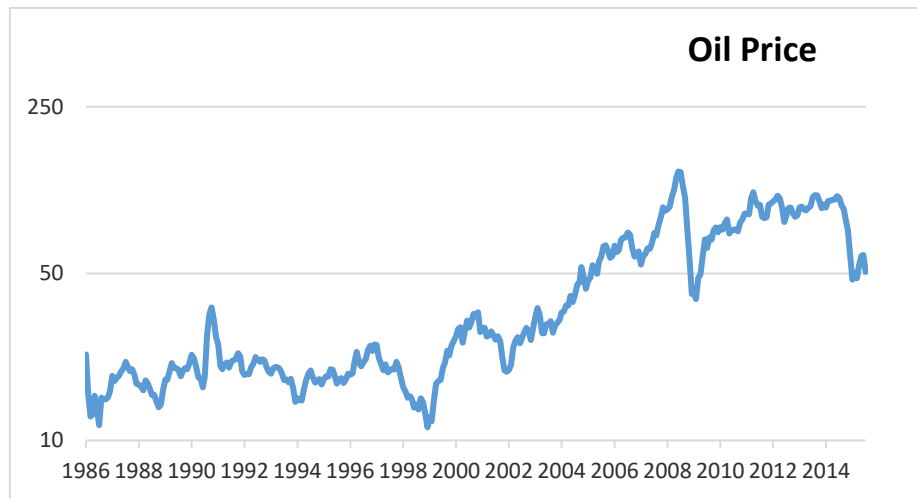
Display of "years" can be horizontal, slanted or vertical

| | |
|------------|-------|
| 1988-11-01 | 14.14 |
| 1988-12-01 | 16.38 |
| 1989-01-01 | 18.02 |
| 1989-02-01 | 17.94 |
| 1989-03-01 | 19.48 |
| 1989-04-01 | 21.07 |
| 1989-05-01 | 20.12 |
| 1989-06-01 | 20.05 |
| 1989-07-01 | 19.78 |
| 1989-08-01 | 18.58 |
| 1989-09-01 | 19.59 |
| 1989-10-01 | 20.10 |
| 1989-11-01 | 19.86 |
| 1989-12-01 | 21.10 |
| 1990-01-01 | 22.86 |
| 1990-02-01 | 22.11 |
| 1990-03-01 | 20.39 |
| 1990-04-01 | 18.43 |
| 1990-05-01 | 18.20 |
| 1990-06-01 | 16.70 |
| 1990-07-01 | 18.45 |
| 1990-08-01 | 27.31 |
| 1990-09-01 | 33.51 |
| 1990-10-01 | 36.04 |
| 1990-11-01 | 32.33 |
| 1990-12-01 | 27.28 |
| 1991-01-01 | 25.23 |
| 1991-02-01 | 20.48 |
| 1991-03-01 | 19.90 |
| 1991-04-01 | 20.83 |
| 1991-05-01 | 21.23 |
| 1991-06-01 | 20.19 |
| 1991-07-01 | 21.40 |
| 1991-08-01 | 21.69 |
| 1991-09-01 | 21.89 |
| 1991-10-01 | 23.23 |
| 1991-11-01 | 22.46 |
| 1991-12-01 | 19.50 |
| 1992-01-01 | 18.79 |
| 1992-02-01 | 19.01 |
| 1992-03-01 | 18.92 |
| 1992-04-01 | 20.23 |
| 1992-05-01 | 20.98 |
| 1992-06-01 | 22.38 |
| 1992-07-01 | 21.78 |
| 1992-08-01 | 21.34 |
| 1992-09-01 | 21.88 |
| 1992-10-01 | 21.69 |
| 1992-11-01 | 20.34 |
| 1992-12-01 | 19.41 |
| 1993-01-01 | 19.03 |
| 1993-02-01 | 20.09 |

Graph 3 Vertical axis is ratio (logarithmic) scale. Factor of 10 from 10 to 1,000.



Graph 4 Vertical axis is ratio (logarithmic) scale. Factor of 5 from 10 to 250



Graph 5 Vertical axis is ratio (logarithmic) scale. Factor of 2 from 10 to 160

