

Natural Resources vs. Nature



What about all those **tangible resources** locked in the parks ?

Federal/National Lands

- Hold large quantities of natural resources
 - Timber
 - Mineral Resources
 - Geothermal Energy



What about Oil ?



Oil Crisis ?

- Gasoline prices rose dramatically last summer and appear to be doing so again
 - Proposed (past and present) Governmental Response ?
 - Remove the Federal Gasoline Tax
 - Release the Strategic Oil Reserve
 - Force OPEC to increase production
 - **Open the Coast of the Alaskan Arctic Wildlife Preserve to Drilling**

Is it Feasible ?

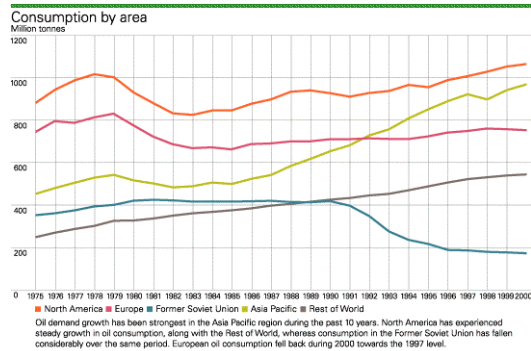


According to Senator Frank Murkowski "It's a simple fact that unless we increase our domestic production, OPEC's influence will continue to grow." Alaska Governor Tony Knowles believes that "by doing development right, I know that we can extract the potentially enormous oil and gas reserves under the Arctic Refuge while protecting the important wildlife and environmental values there."

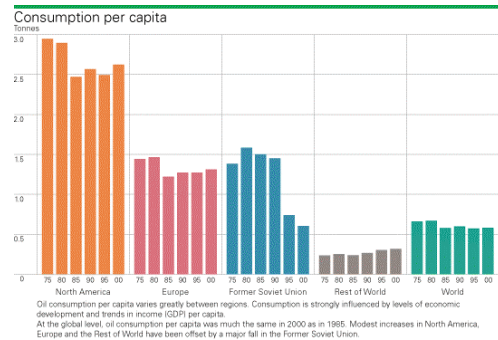
Examining the claims

- **Increasing our production will protect us from OPEC**
- It won't harm the environment
- There are "enormous oil and gas reserves"

Oil Consumption



Oil Consumption per capita



Top Petroleum Net Exporters, 1999

(Million Barrels per Day)

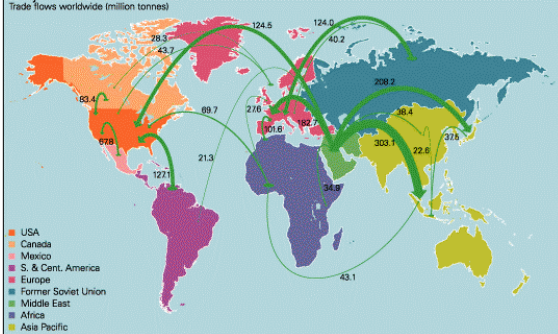
Rank	Country	Production	Consumption	Net Exports
1	Saudi Arabia	8.5	1.3	7.2
2	Russia	6.3	2.3	3.9
3	Norway	3.1	0.2	2.9
4	Venezuela	3.0	0.5	2.5
5	Iran	3.6	1.2	2.4
6	Iraq	2.5	0.5	2.1
7	United Arab Emirates	2.3	0.3	2.0
8	Kuwait	2.0	0.2	1.8
9	Nigeria	2.1	0.3	1.8
10	Mexico	3.4	2.0	1.4
11	United Kingdom	3.0	1.7	1.2
12	Libya	1.4	0.2	1.2
13	Algeria	1.4	0.2	1.1

Top Petroleum Net Importers, 1999

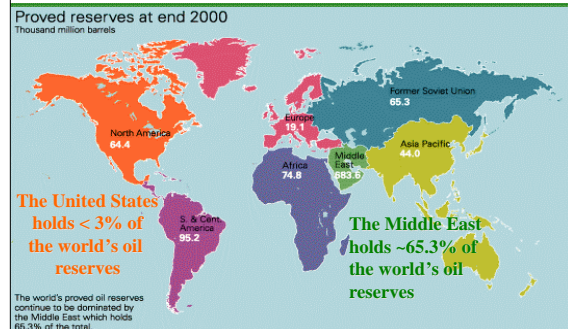
(Million Barrels per Day)

Rank	Country	Consumption	Production	Net Imports
1	United States	19.5	9.0	9.8
2	Japan	5.5	0.1	5.5
3	Germany	2.8	0.1	2.7
4	South Korea	2.0	0.0	2.0
5	France	2.0	0.1	1.9
6	Italy	2.0	0.2	1.9
7	Spain	1.4	0.0	1.4
8	India	1.9	0.7	1.2
9	China	4.3	3.2	1.1
10	Taiwan	0.8	0.0	0.8

Major trade movements

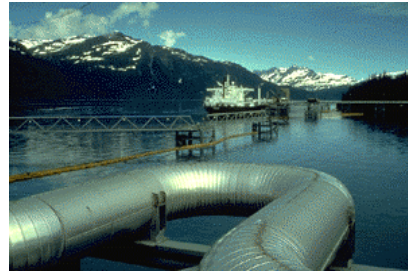


Proven Oil Reserves end 2000 in Thousand Million Barrels



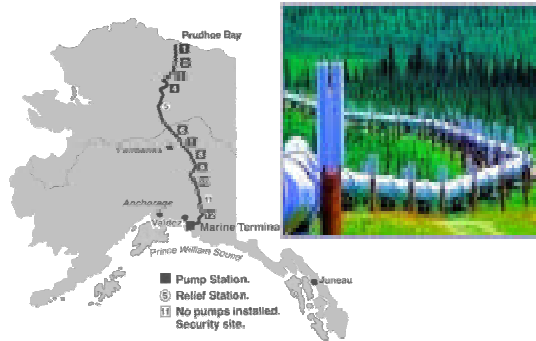
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- Trans-Alaska Pipeline -
How did it effect the wilderness ?

Trans-Alaska Pipeline



Facts about the Pipeline



Why does the pipeline zig-zag ?



Animal Crossings

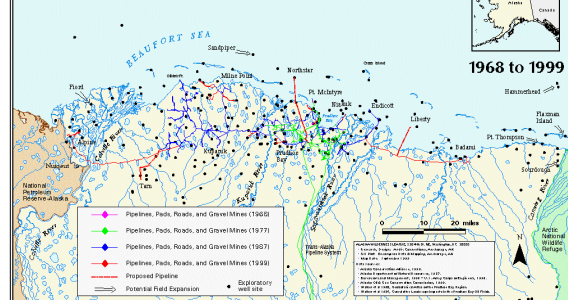


Valdez Marine Terminal



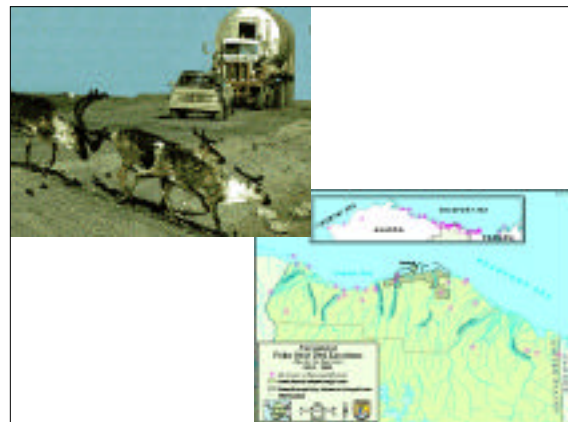
800 square mile industrial complex

Oil Development in America's Arctic



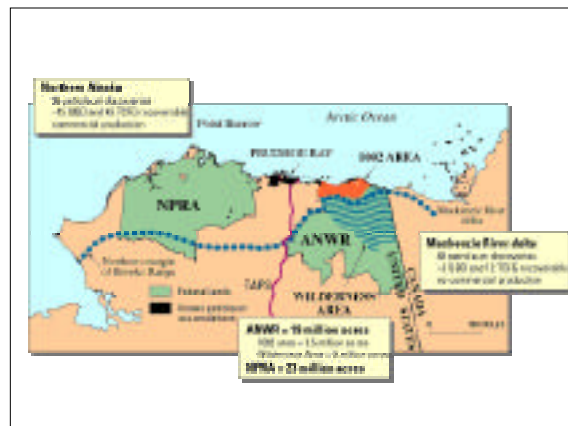
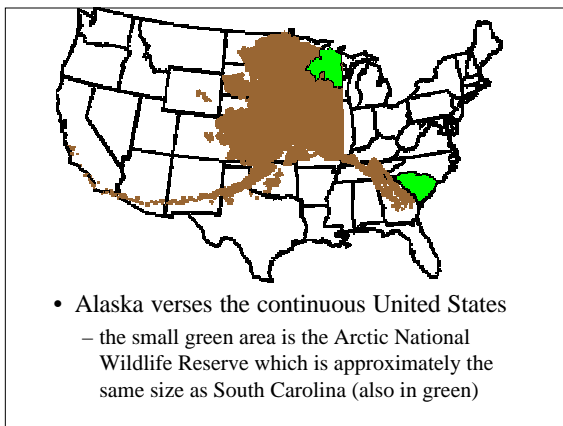
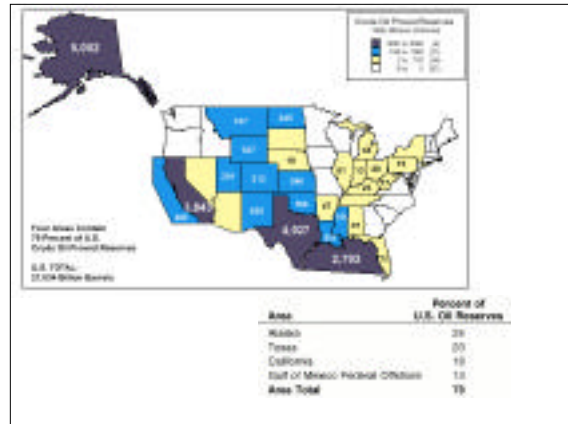
- Nearly 400 spills occur annually from oil industry activities in the North Slope oil fields and the Trans-Alaska Pipeline.

The Blue Dots: are known Polar Bear Birthing Dens.
The Pink Dots: Are known Caribou birthing locations.



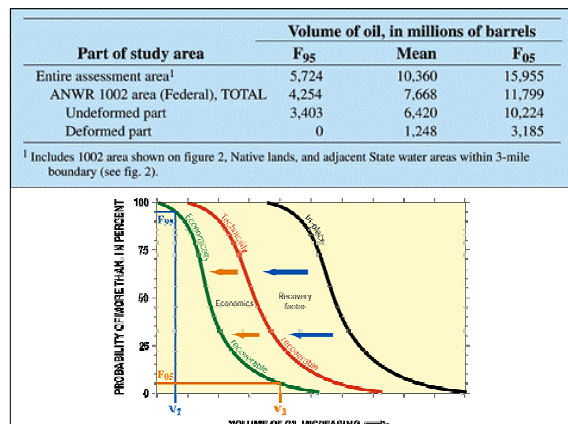
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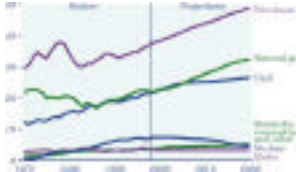
How much oil is there ?

- According to Gov. Knowles and Sen. Murkowski the refuge could hold up to **16 billion barrels of oil**
- According to the USGS the total quantity of oil within the entire assessment area is estimated to be between 5.7 and 16.0 billion barrels with a mean value of 10.3 billion barrels. **Technically recoverable oil within the ANWR 1002 area is estimated to be between 4.2 and 11.8 billion barrels with a mean value of 7.7 billion barrels**



So how much is there ?

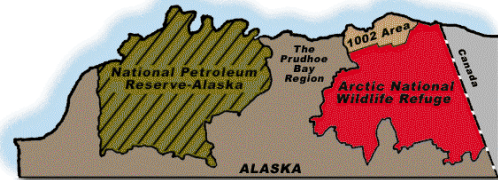
- Using the best case scenario of 16 billion barrels, that is only a 2.2 year supply of oil, at 1999 levels of consumption
- Using a more reasonable estimate of 7.7 billion barrels there is only a one year supply at 1999 levels of consumption



BUT -
consumption is
increasing

So what do you think ?

- 95% of Alaska's North Slope is already available for oil exploration
- The Arctic National Wildlife Refuge has the last 5% of unspoiled arctic coastal land.



» Which is more important ?

