

# CARBON DIOXIDE (CO<sub>2</sub>) MAP OF WYOMING

by  
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## EXPLANATION

In 2001 Wyoming produced 42,800 million cubic feet (MMCF) of natural gas and 49.6 million short tons of CO<sub>2</sub> released to the atmosphere from coal-fired power plants. Energy Information Administration, <http://www.eia.doe.gov/>.

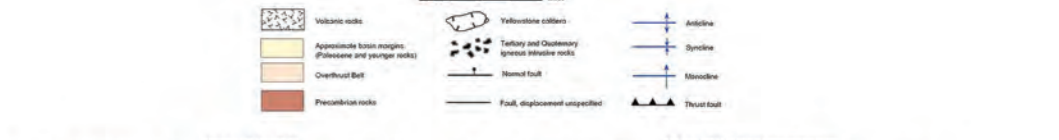
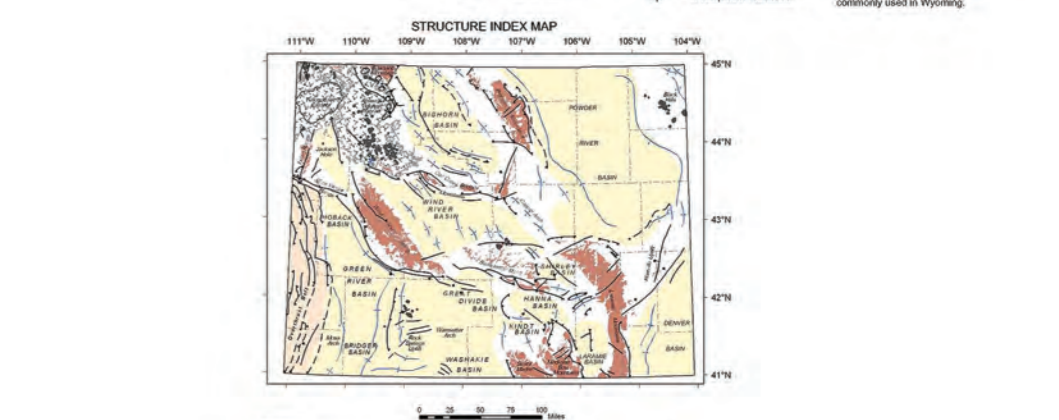
Based on 2001 production capacity, we can assign tons of CO<sub>2</sub> emissions and MMCF/day to various coal and gas plants.

Plant	Capacity (MMCF/day)	Percent Production	Million Tons of CO <sub>2</sub>	Million Cubic Feet per Day (MCF/day)	Million Cubic Feet per Day (MCF/day)
Jim Bridger	2,120	37.3	18.5	14.5	827
Laramie River	1,658	29.3	14.5	236.5	648
Dave Johnston	762	13.4	6.7	109.3	299
Haugdon	700	12.3	6.1	273	756
Wyosak	335	5.9	2.9	47.3	130
Neal Simpson	99	1.7	0.9	14.7	40
<b>Totals</b>	<b>5,684</b>	<b>100.0</b>	<b>49.6</b>	<b>809.1</b>	<b>2,217</b>

- ### SYMBOLS AND DESIGNATIONS
- Coal bed power plant, includes plant name, carbon dioxide (CO<sub>2</sub>) production in million cubic feet per day (MCF/day) and electrical production in megawatts (MW).
  - Oil refinery which emits CO<sub>2</sub>. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Natural gas processing plant. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Natural gas processing plant that produces major amounts of CO<sub>2</sub>. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Approximate location of major basins.
  - Threat (TM) defining the eastern boundary of the Overthrust Belt and major thrust faults in the northern edge of Green River Basin. Outlets where appropriate.
  - Quaternary volcanic rocks in the Yellowstone National Park area. Includes Yellowstone National Park, Snake River Plain, and Snake River Valley. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Tertiary volcanic rocks of the Alaska Range. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Oil shale-bearing strata. The shaded area depicts the oil shale occurrence. Oil shale occurs in the Lower Triassic, Permian, and Lower Carboniferous. Oil shale-bearing strata in the Lower Triassic, Permian, and Lower Carboniferous. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.
  - Major Wyoming sedimentary basins and Overthrust Belt. Major Wyoming sedimentary basins and Overthrust Belt. Major Wyoming sedimentary basins and Overthrust Belt. Includes includes operator and capacity in million of cubic feet (MCF) per day. Locations are approximate.

- ### FIELD DESIGNATIONS
- (A) Aftonian deposit
  - (AN) Alluvial deposit
  - (AR) Alluvial deposit
  - (C) Coalbed methane
  - (G) Gas seepage
  - (H) Hydrothermal (acidic) spring
  - (I) Heavy oil - less than 270° API gravity
  - (M) Heavy oil - more than 270° API gravity
  - (N) Natural gas
  - (O) Oil shale
  - (P) Primary recovery project
  - (R) Waterflood project
- ### FIELD DESIGNATIONS (CONTINUED)
- (S) Steam heating
  - (T) Tertiary recovery project
  - (W) Waterflood project
- Note: These designations appear after the oil or gas field name.

- ### PREDOMINANT AGE OF CARBON DIOXIDE FLOOD CANDIDATE ROCKS
- TERTIARY
  - UPPER CRETACEOUS
  - LOWER CRETACEOUS
  - JURASSIC
  - PERMIAN-PENNSYLVANIAN
  - MESOZOIC
  - CRETACEOUS-JURASSIC
  - LOWER CRETACEOUS
  - PERMIAN-PENNSYLVANIAN
  - DEVONIAN
  - SILURIAN
  - ORISKANY
  - PRECAMBRIAN
- ### LIST OF OIL AND GAS PRODUCING GROUPS, FORMATIONS, AND MEMBERS
- Both structural and stratigraphic groupings are shown for each field. On the map, formations from which hydrocarbons are produced are indicated by a shaded area.
- | Group                 | Formation        | Member           |
|-----------------------|------------------|------------------|
| TERTIARY              | Albion Formation | Albion Formation |
|                       | Alibi Formation  | Alibi Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
| LOWER CRETACEOUS      | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
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|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
| PERMIAN-PENNSYLVANIAN | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |
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|                       | Alton Formation  | Alton Formation  |
|                       | Alton Formation  | Alton Formation  |



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