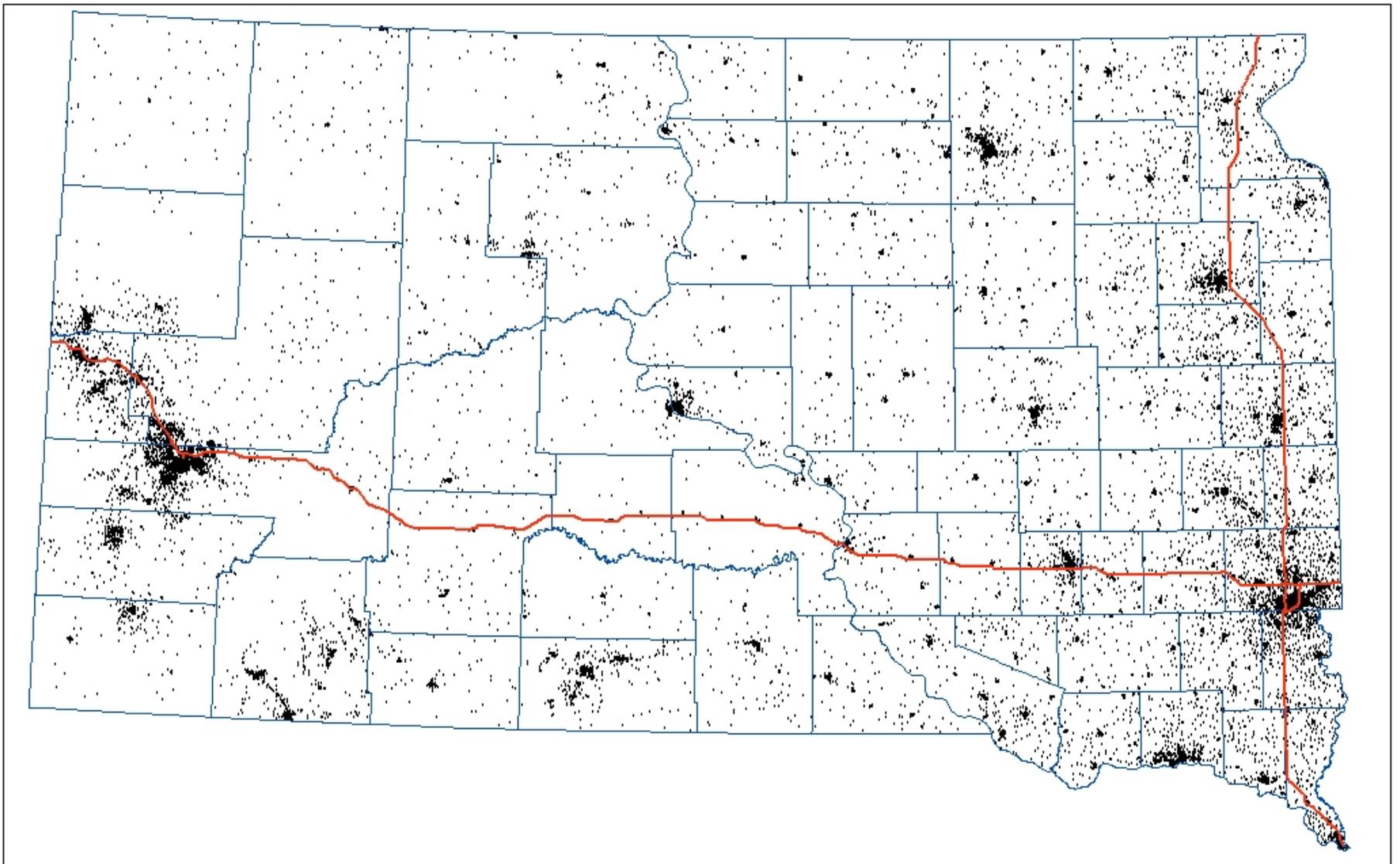


Overview of South Dakota

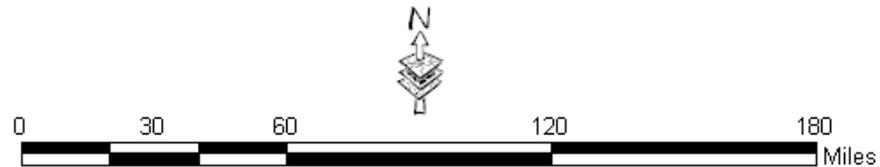
Steve Wegman

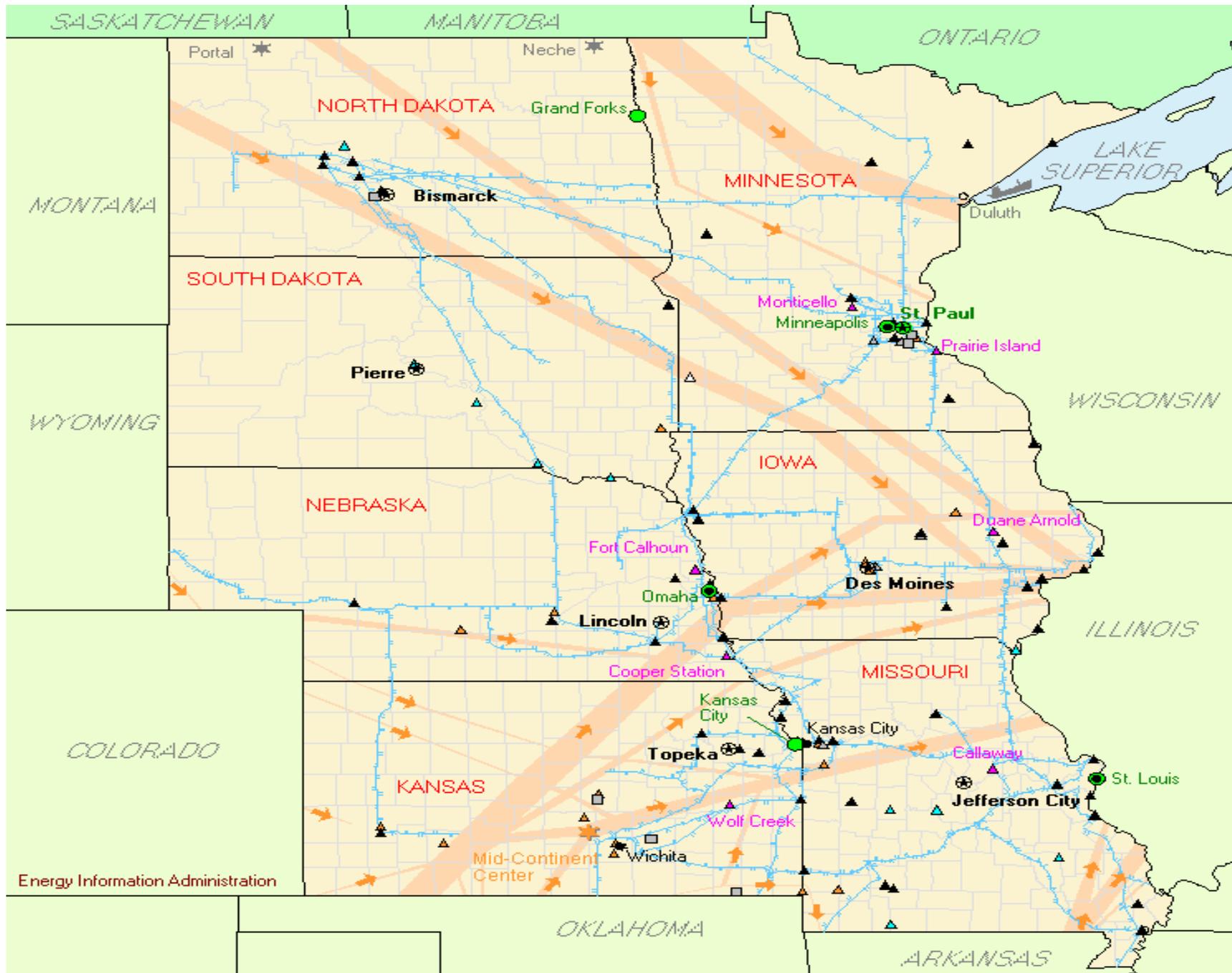
South Dakota Public Utilities
Commission



South Dakota Population Density

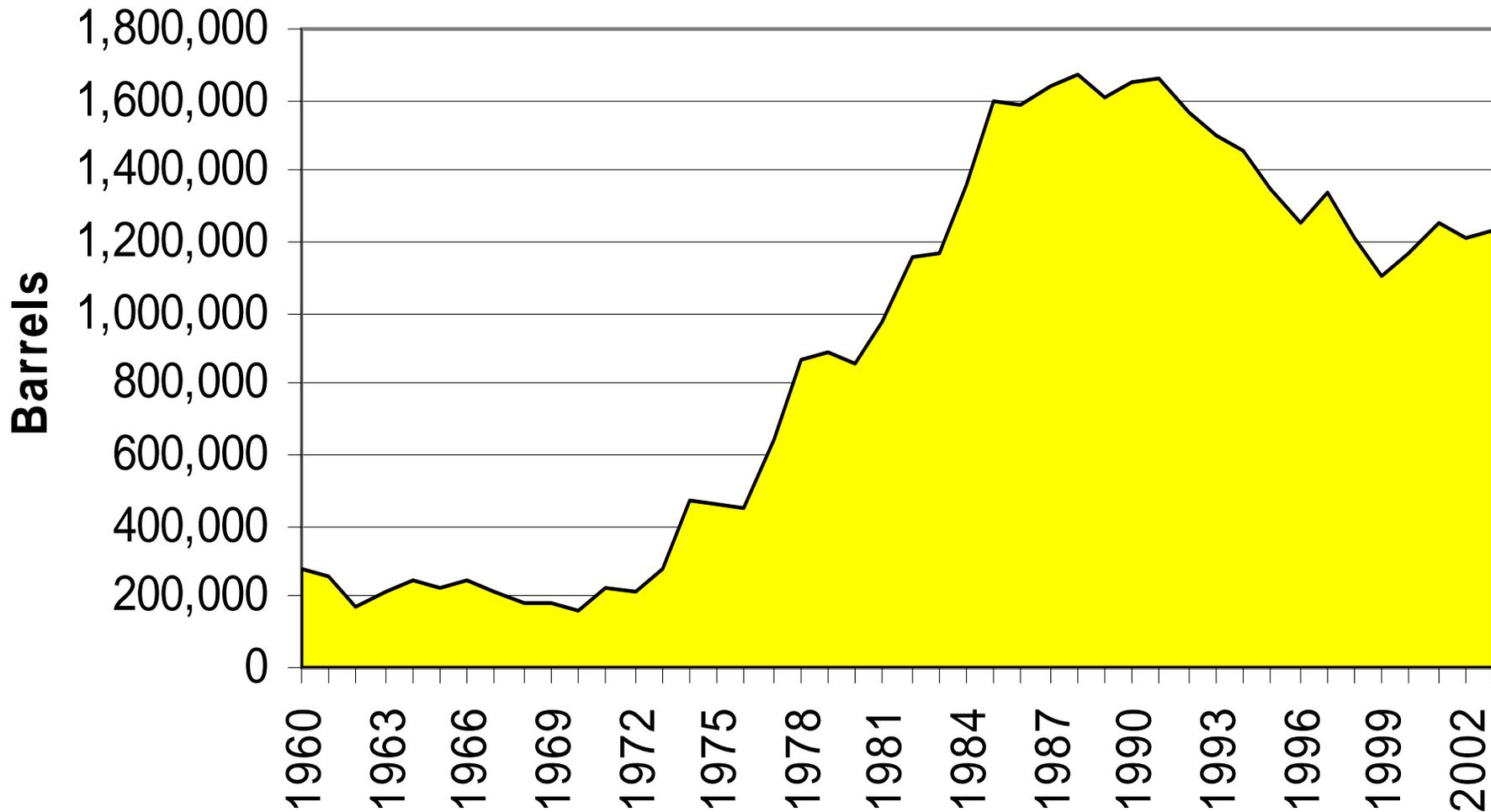
- Interstates
- Counties
- Population Density
- 1 Dot = 15

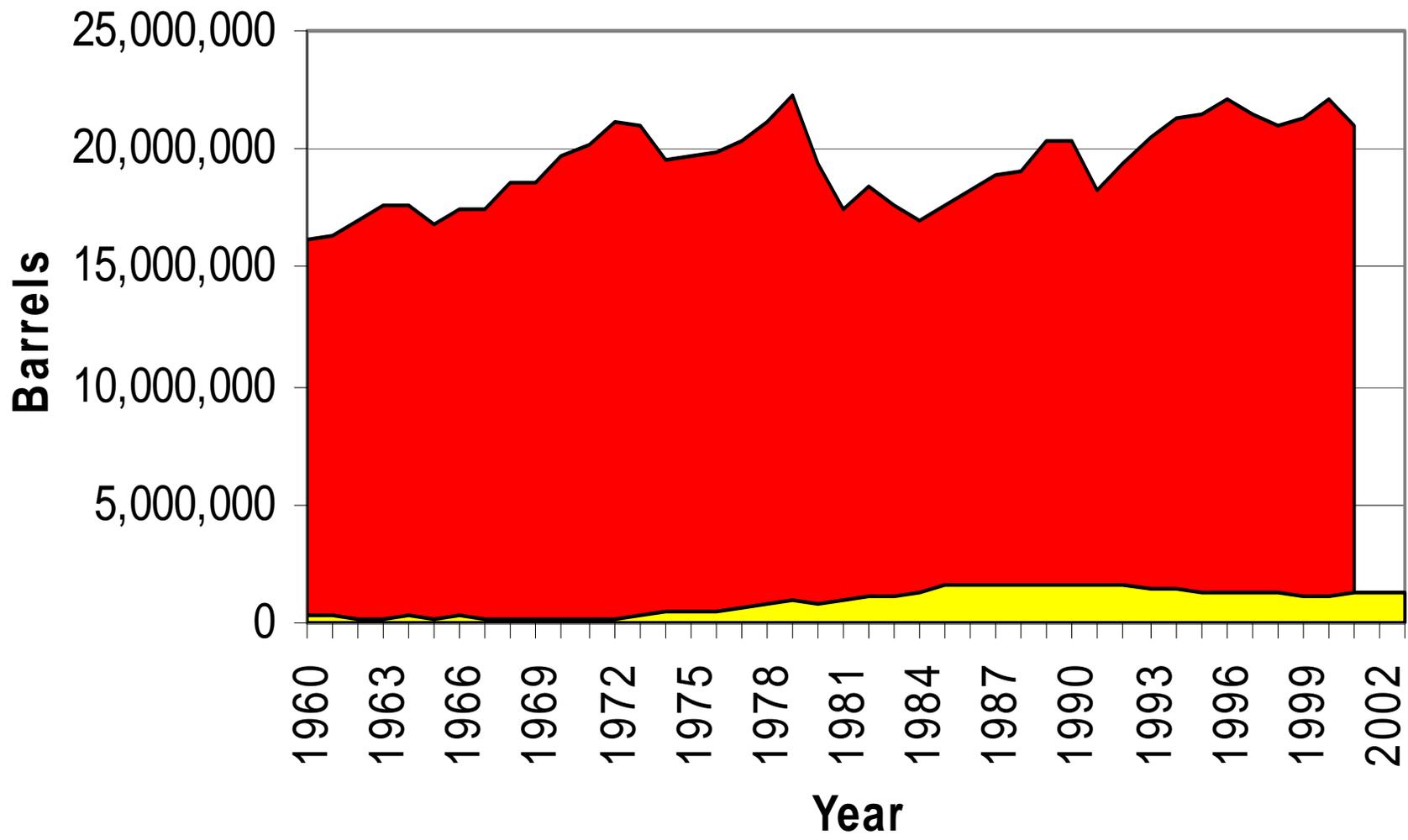




Energy Information Administration

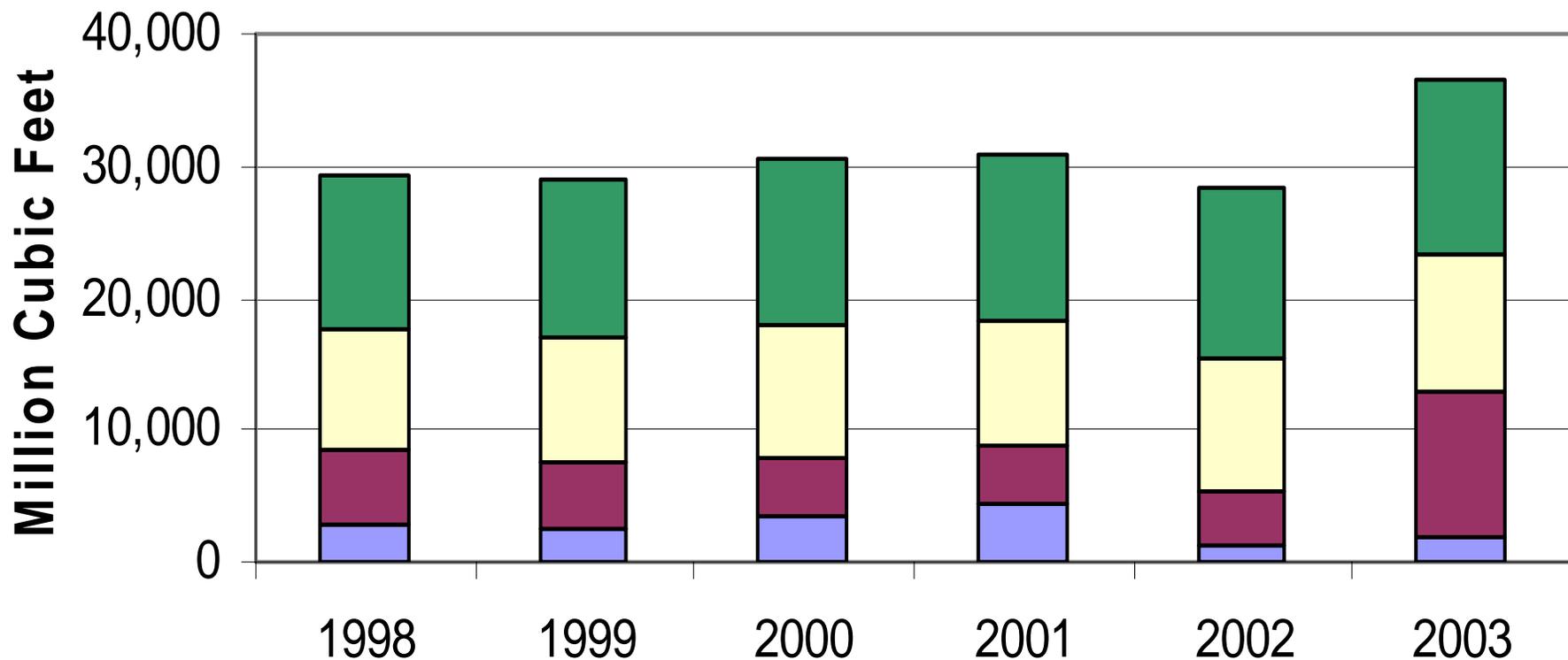
Crude Oil Production in SD





■ Consumption ■ Production *UNREFINED*

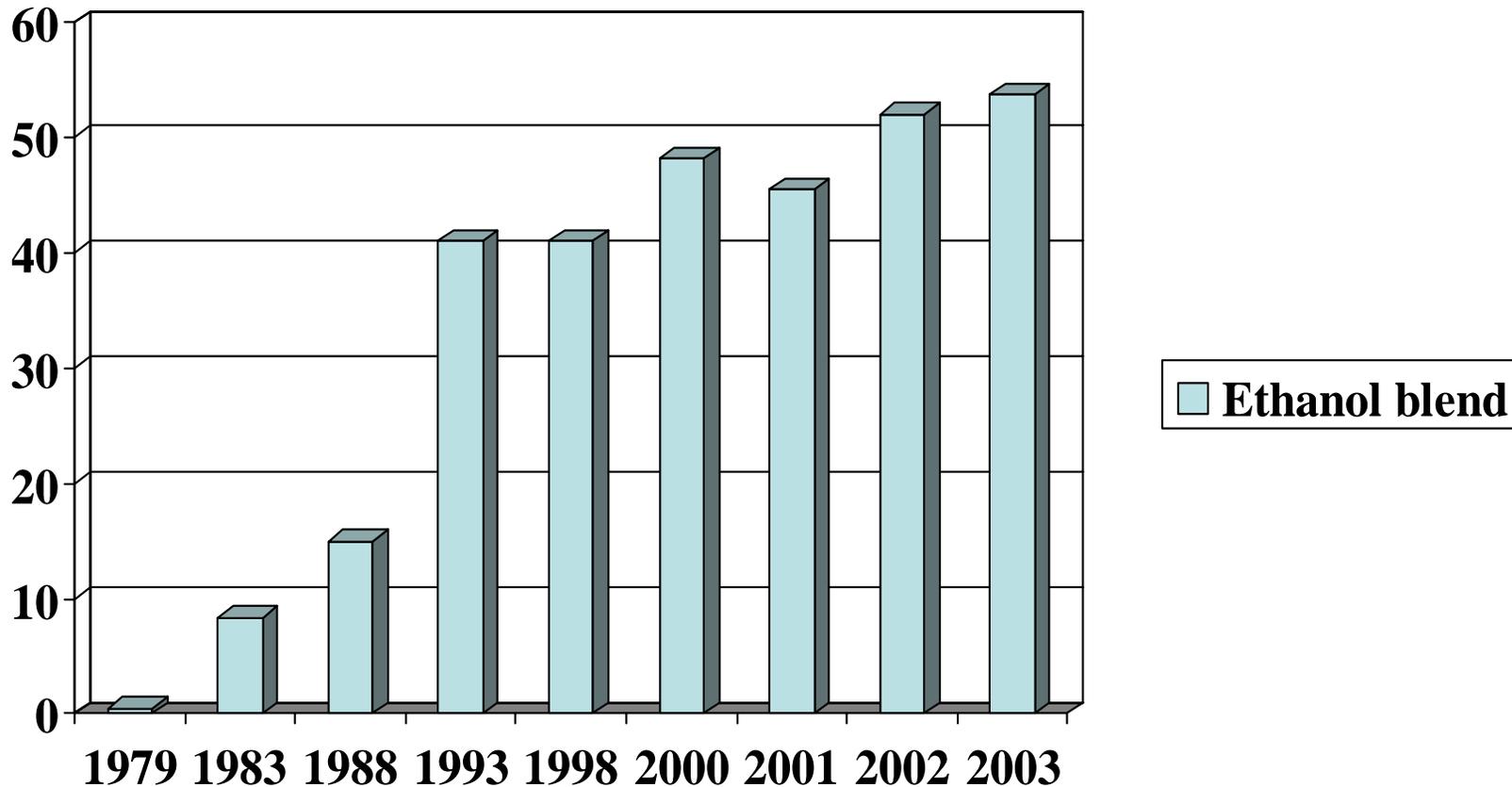
Natural Gas Consumption in SD



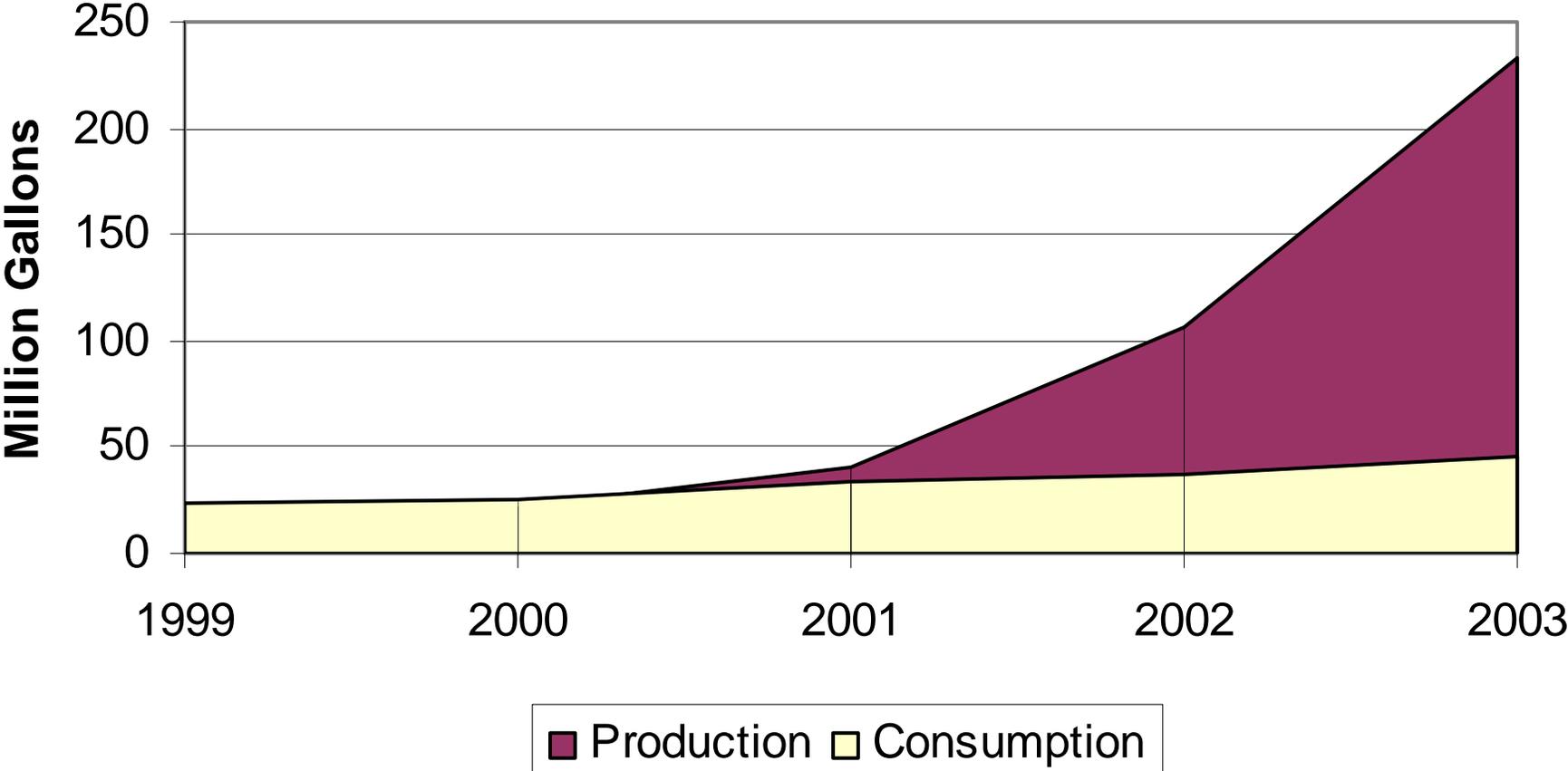
Consumption by Electric Power Consumption by Industrial
Consumption by Commercial Consumption by Residential

Facility	Facility Location	Permitted Capacity	Production (Million Gallons)				
			1999	2000	2001	2002	2003
Broin Enterprises	Scotland	8	7.79	8.28	8.36	8.58	8.65
Heartland Grain Fuels	Aberdeen	9	7.96	8.89	8.33	8.79	8.88
Heartland Grain Fuels	Huron	12	0.28	5.07	11.02	11.98	12.31
JPJ	Humboldt	NA	0.13	0.16	0.20	0.07	0.16
Dakota Ethanol	Wentworth	50		X	12.36	45.09	47.10
Tri-State Ethanol	Rosholt	15			X	4.95	-
Northern Lights Ethanol	Big Stone City	62			X	19.48	43.93
Glacial Lakes Energy	Watertown	50			X	7.23	45.76
Great Plains Ethanol	Chancellor	62				X	31.08
James Valley Ethanol	Groton	62				X	27.05
VeraSun Energy	Aurora	100				X	8.30
Sioux River Ethanol	Hudson	62					X
Total Production		492	16.16	22.40	40.28	106.17	233.21

Percent of Ethanol Blended Fuel South Dakota Gasoline Sales



Ethanol Consumption and Production in SD

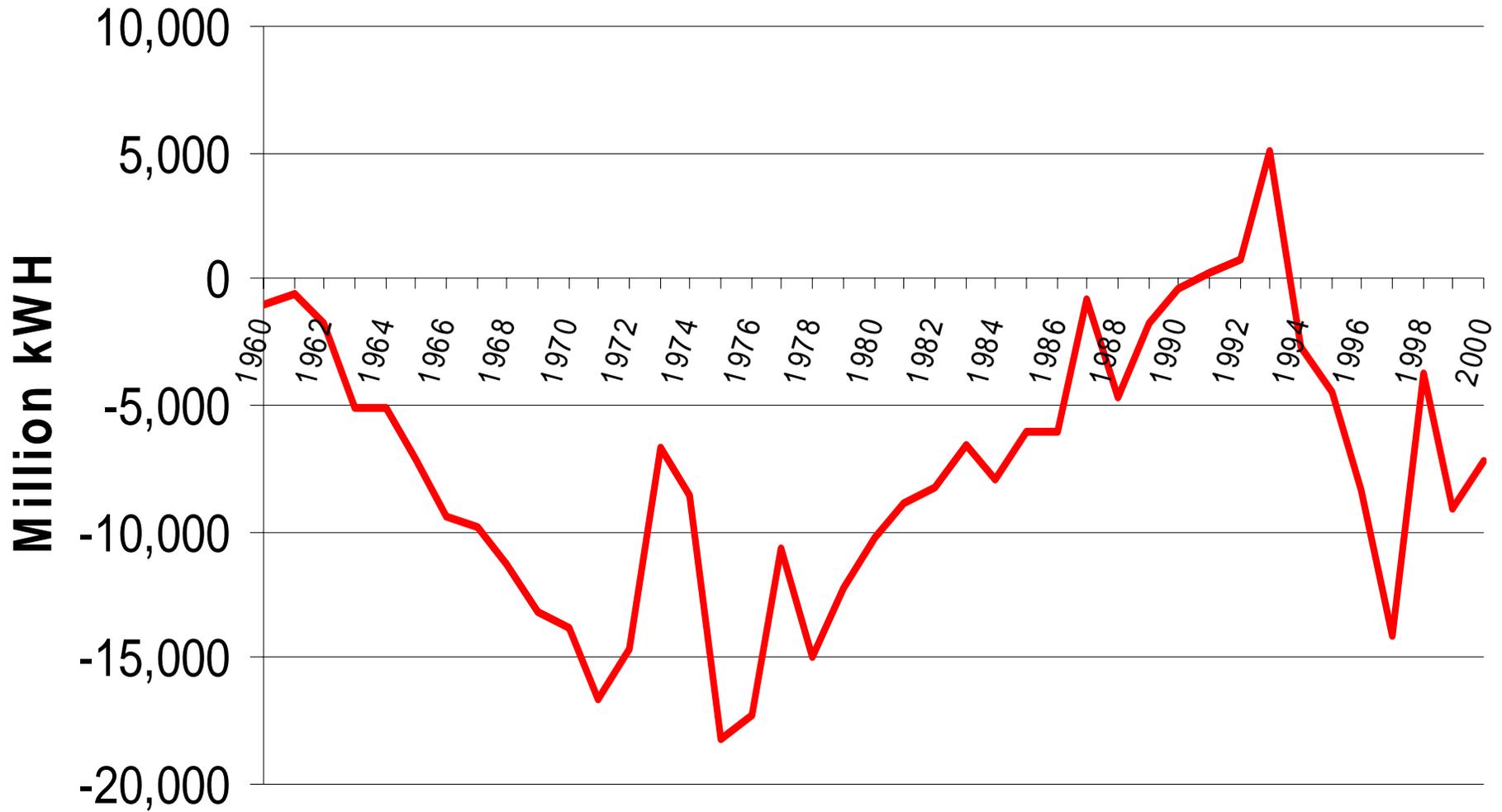


Ethanol in Gasoline Consumed in SD

	1999	2000	2001	2002	2003
Withdrawn from South Dakota Terminal	22.92	26.16	34.82	37.92	47.63
Imported into South Dakota	3.24	0.90	0.86	0.82	1.12
Exported to Another State (Deducted from Total)	2.25	2.28	2.68	2.39	2.66
TOTAL ETHANOL CONSUMED IN SD	23.90	24.78	33.01	36.35	46.09

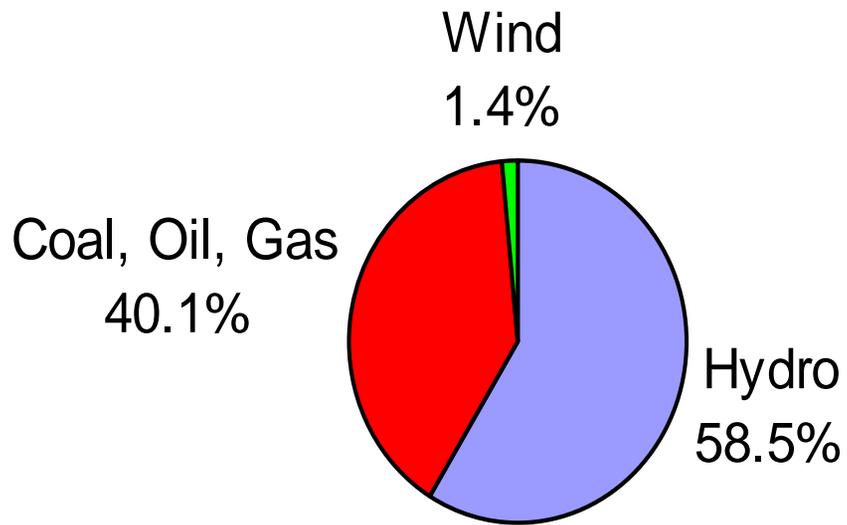
Net Interstate Flow of Electricity

(negative value = net outflow of electricity)

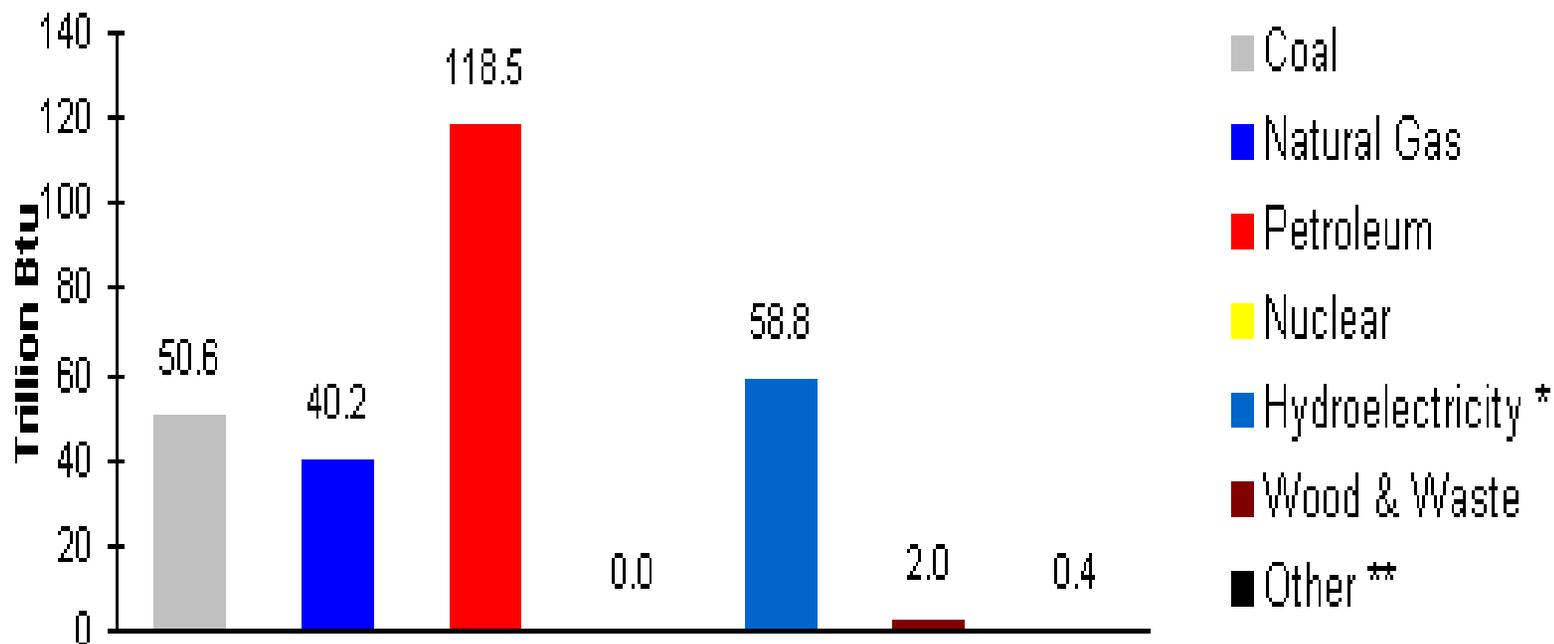


<u>Location</u>	<u>Owner</u>	<u>Fuel Type</u>	<u>Megawatt Capacity</u>	<u>Percent of Total</u>
1. Oahe, Pierre	US Corps Engineers	Hydro	714	24.9%
2. Big Bend, Fort Thompson	US Corps Engineers	Hydro	509	17.7%
3. Big Stone, Big Stone City	Otter Tail Power/Montana Dakota Utilities/ North Western Public Service	Coal, Oil	456	15.9%
4. Fort Randall, near Pickstown	US Corps Engineers	Hydro	353	12.3%
5. Angus Anson, Sioux Falls	Xcel Energy (Northern States Power)	Gas, Oil	229	8.0%
6. Gavins Point, near Yankton	US Corps Engineers	Hydro	102	3.6%
7. Ben French, Rapid City	Black Hills Power	Gas, Oil, Coal	100	3.5%
8. Spirit Mound, near Vermillion	Basin Electric Coop.	Oil	96	3.3%
9. Huron	Northwestern Public Service	Gas, Oil	55	1.9%
10. Hyde County, near Highmore	Basin Electric/ Florida Power and Light	Wind	40	1.4%
All others			215	7.5%
Total			2869	100.0%

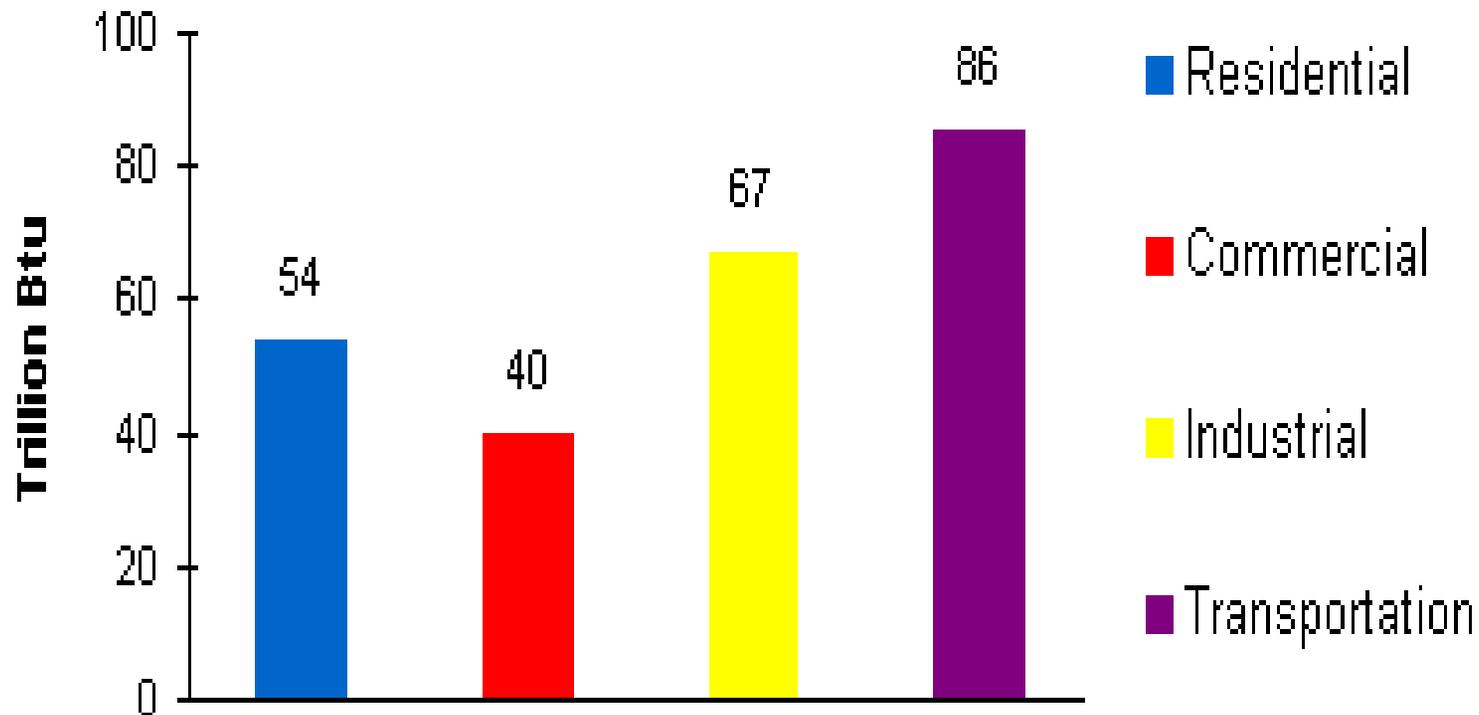
Primary Energy Source Capacity for Electricity Production in SD



Primary Energy Consumed by Source, 2000



Energy Consumption by Sector, 2000



Methane Recovery

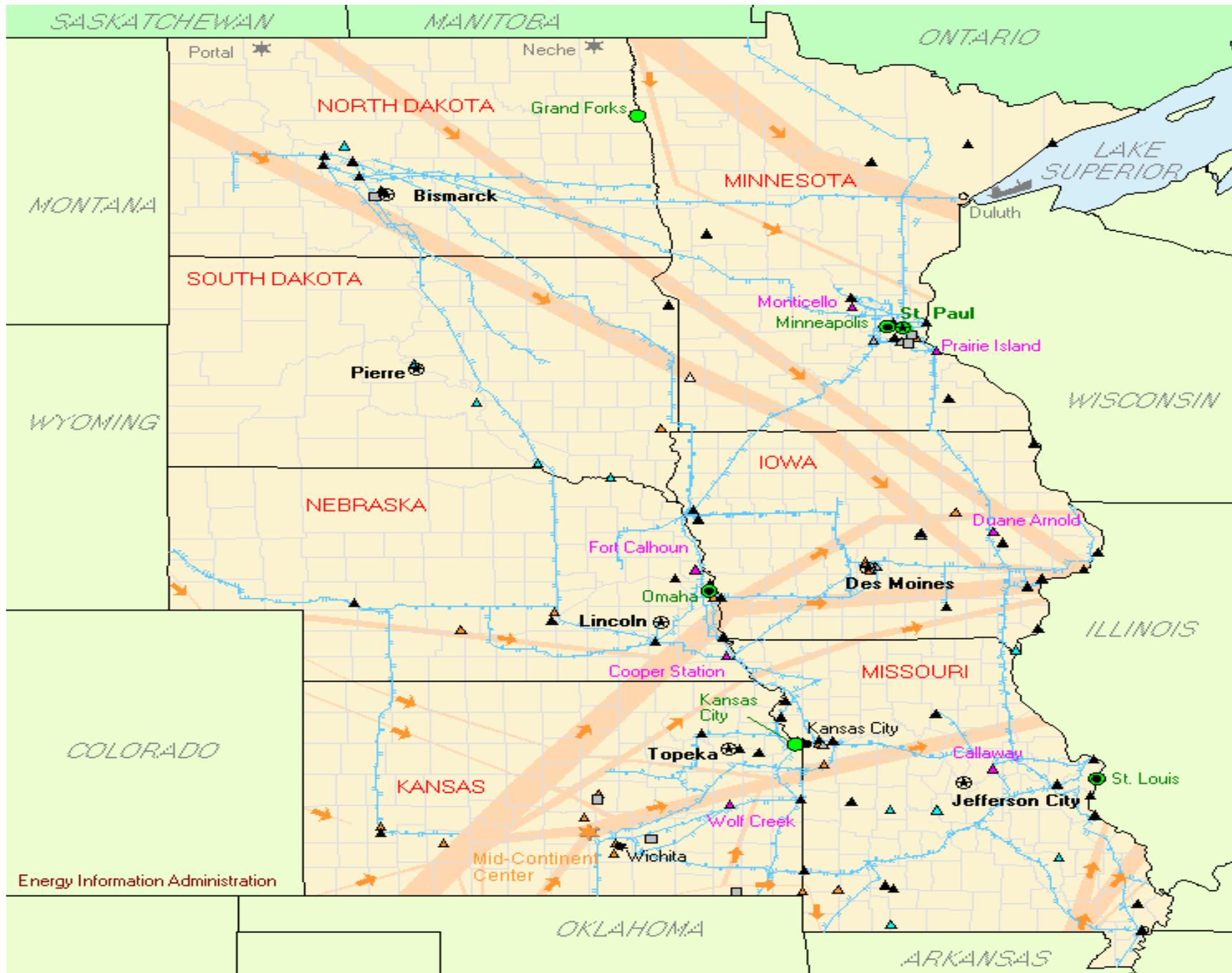
- City of Sioux Falls two 900 kW generators
- John Morrell Plant boiler fuel

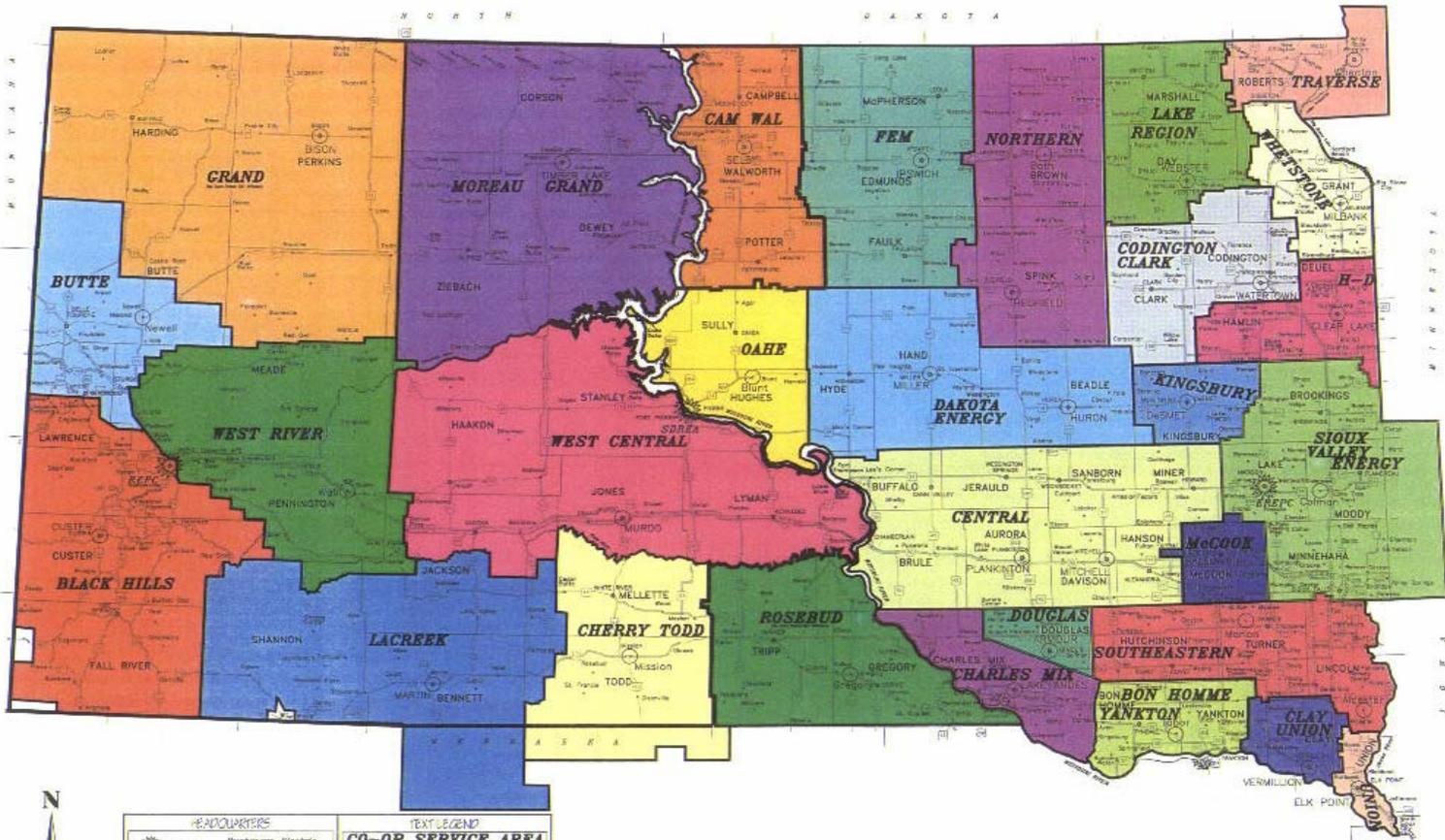
Wood Waste

- Spearfish pellets, steam
- Hill City steam

What are the Challenges?

- Cheap competitive fuels
- Status Quo
- Lack of demand





HEADQUARTERS		TEXT LEGEND	
	RSPC Rushmore Electric Power Cooperative		CO-OP SERVICE AREA
	EREP East River Electric Power Cooperative		COUNTY DESCRIPTION
	SDREA South Dakota Rural Electric Association		HEADQUARTERS
	Member Cooperatives Headquarters		HEADQUARTERS CITY
			CITY AND TOWN DESCRIPTION
			STATE DESCRIPTION
			HIGHWAY AND OTHER FEATURES

Produced by
 RUSHMORE ELECTRIC POWER COOPERATIVE, INC.
 ENGINEERING DEPARTMENT
 EMPLOY CITY SOUTH DAKOTA

DESIGNED BY: S. FINNEY	SCALE: 1/62500
DRAWN BY: M. W. CAMPBELL	ISSUED: MAY 2000

PLEASE USE CAUTION WHEN THE SOUTH DAKOTA Department of Transportation AND SOUTH DAKOTA PUBLIC UTILITIES COMMISSION - SDPUC