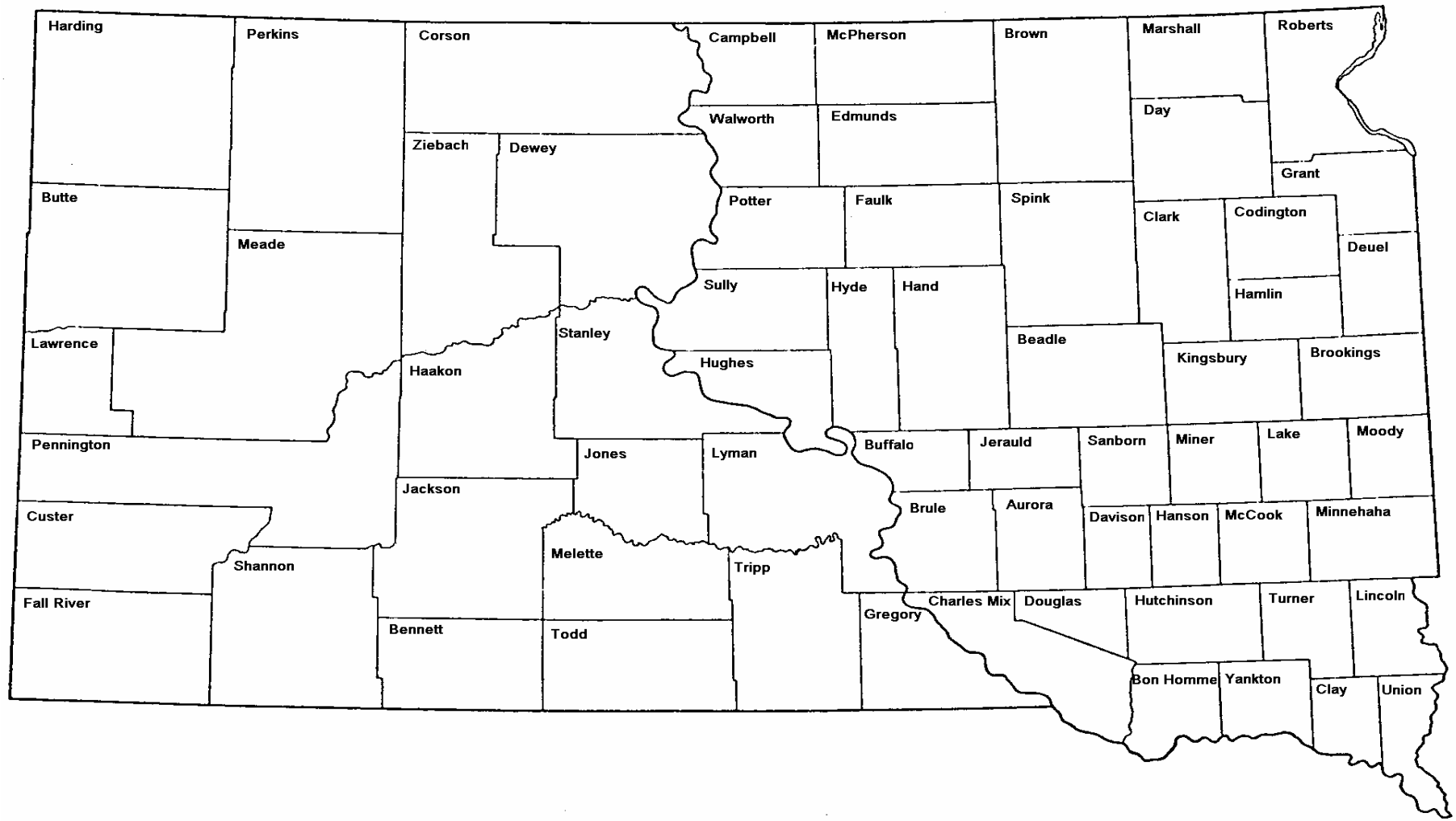
Technology on the Horizon

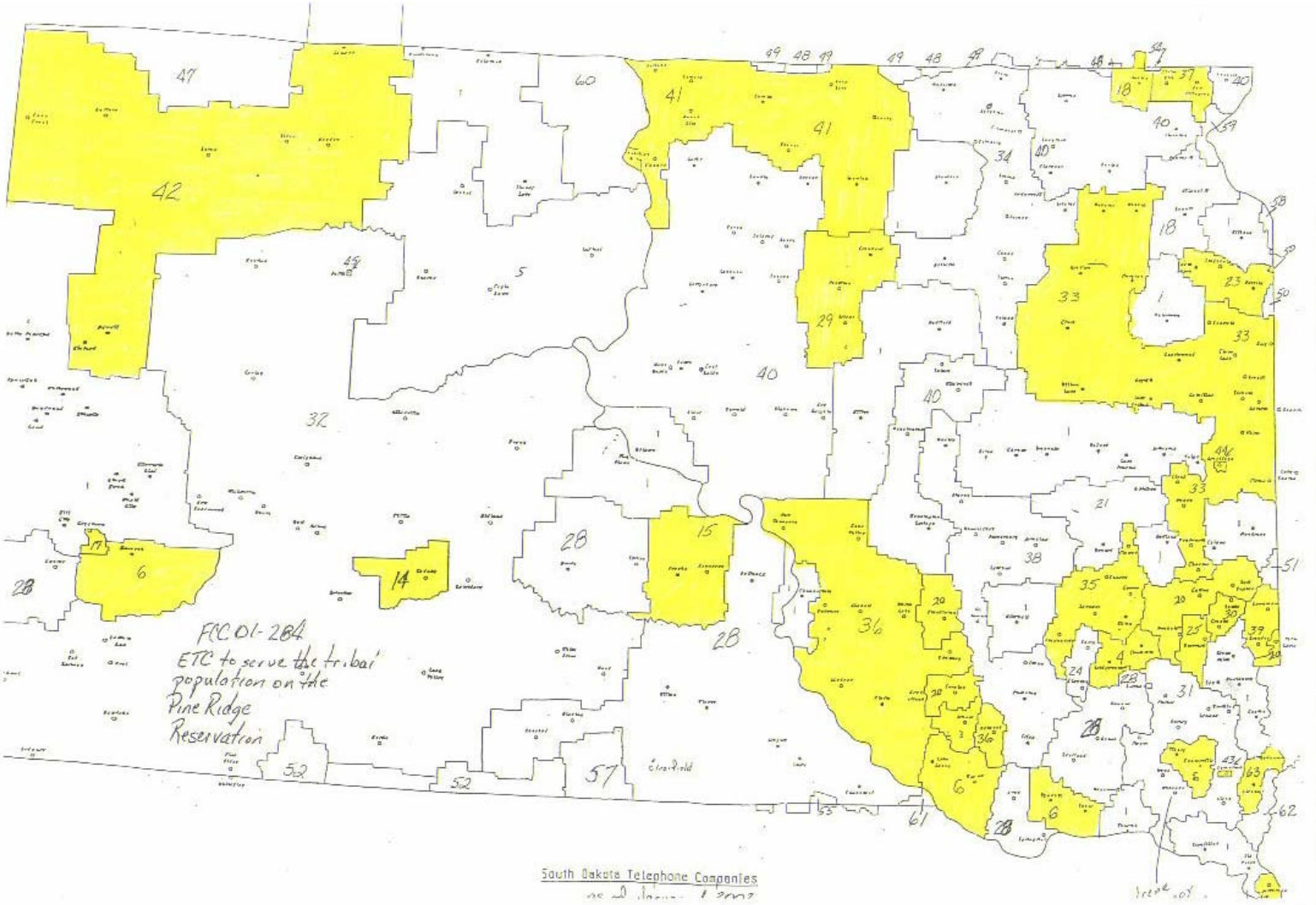
South Dakota Wireless Survey 2004

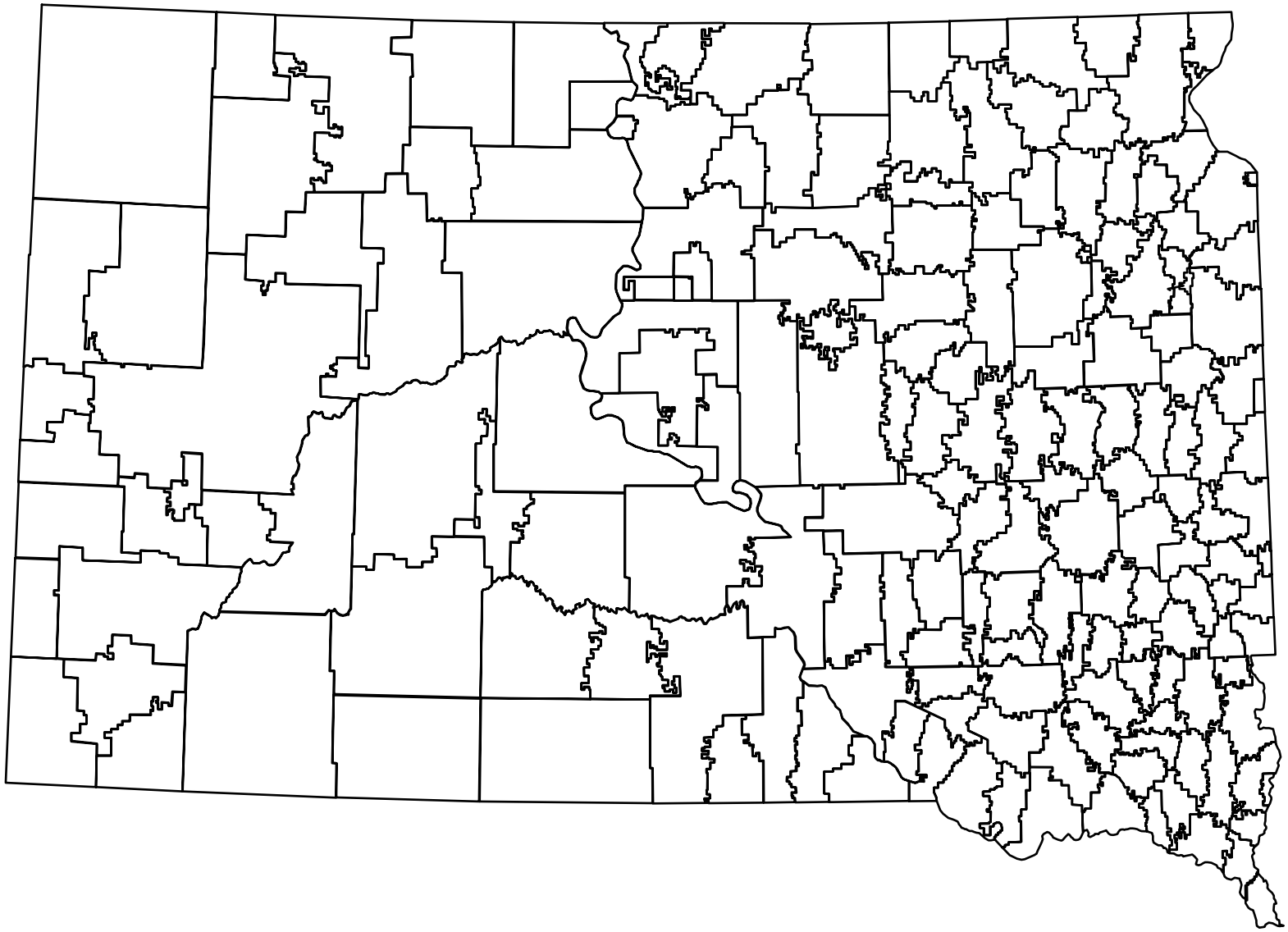
Steve Wegman
Analyst
South Dakota Public Utilities Commission

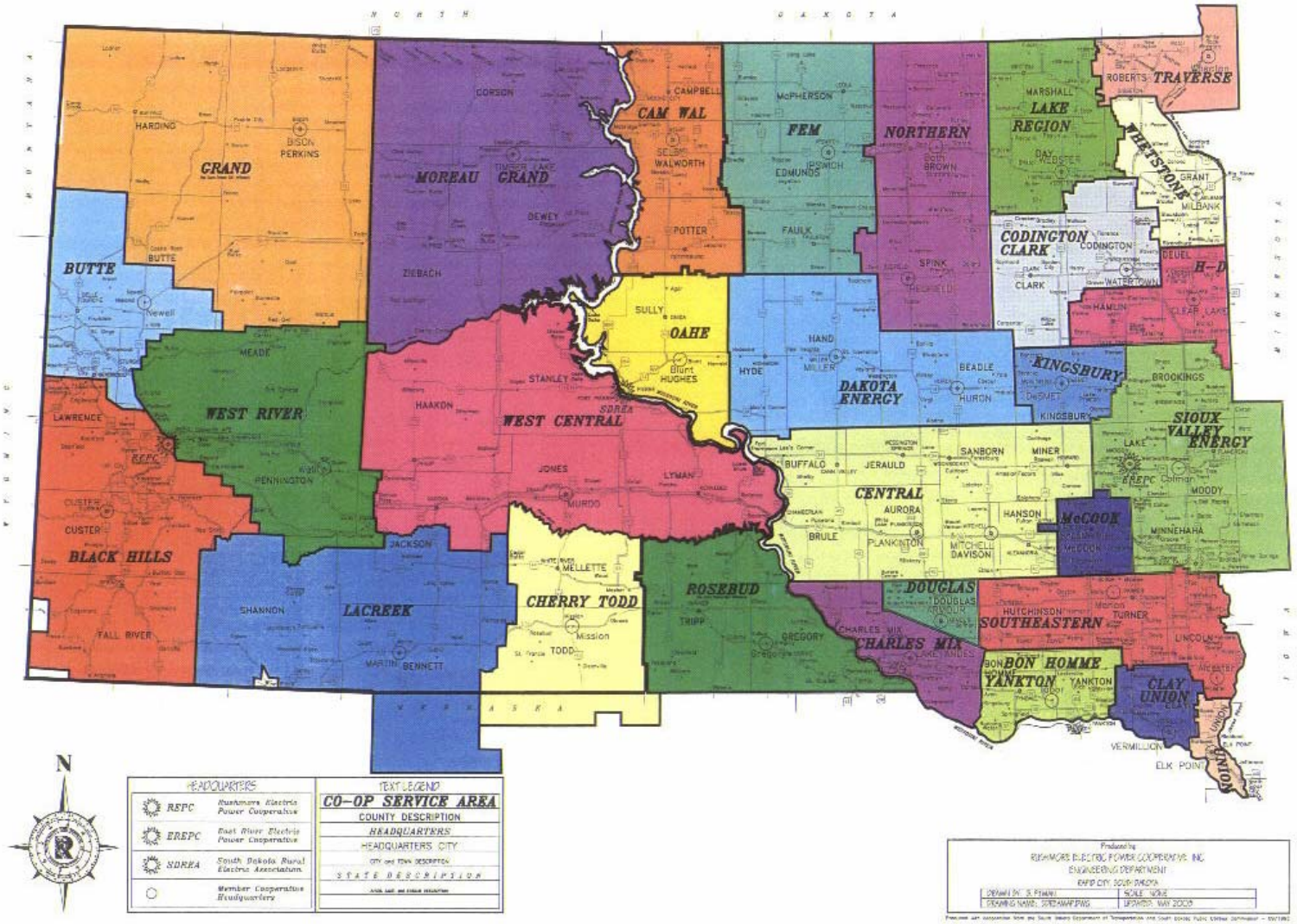
Telecommunications in South Dakota

- Status of Broadband

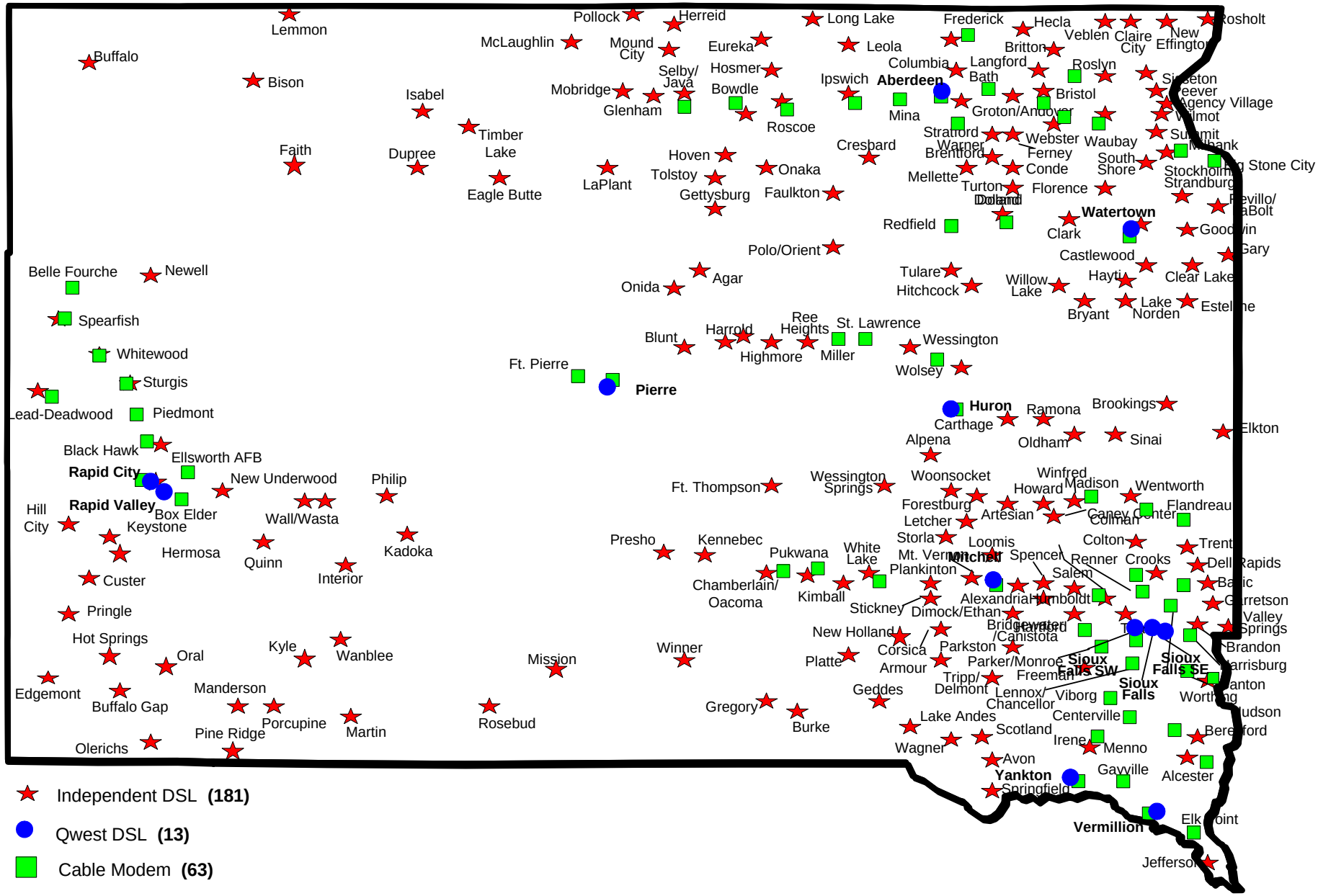

Harding
Perkins
Corson
Campbell
McPherson
Brown
Marshall
Roberts
Walworth
Edmunds
Day
Ziebach
Dewey
Grant
Butte
Potter
Faulk
Spink
Clark
Codington
Deuel
Meade
Hamlin
Sully
Hyde
Hand
Stanley
Beadle
Lawrence
Haakon
Hughes
Kingsbury
Brookings
Pennington
Jones
Lyman
Buffalo
Jerauld
Sanborn
Miner
Lake
Moody
Jackson
Brule
Aurora
Custer
Davison
Hanson
McCook
Minnehaha
Shannon
Melette
Tripp
Fall River
Charles Mix
Douglas
Hutchinson
Turner
Lincoln
Gregory
Bennett
Todd
Bon Homme
Yankton
Clay
Union


FCC 01-284
ETC to serve the tribal population on the Pine Ridge Reservation
South Dakota Telephone Companies





NORTH DAKOTA
MONTANA
WYOMING
MINNESOTA
IOWA
NEBRASKA
GRAND
BUTTE
MOREAU GRAND
CAM WAL
FEM
NORTHERN
LAKE REGION
TRAVERSE
WHETSTONE
CODINGTON CLARK
H-D
OAHE
DAKOTA ENERGY
KINGSBURY
SIOUX VALLEY ENERGY
WEST RIVER
WEST CENTRAL
CENTRAL
McCOOK
BLACK HILLS
LACREEK
CHERRY TODD
ROSEBUD
DOUGLAS
SOUTHEASTERN
CHARLES MIX
BON HOMME YANKTON
CLAY UNION
UNION
HARDING
BISON
PERKINS
CORSON
CAMPBELL
McPHERSON
MARSHALL
ROBERTS
GRANT
MILBANK
DEWEY
ZIEBACH
POTTER
EDMUNDS
FAULK
SPINK
CODINGTON
CLARK
WATERTOWN
DEUEL
HAMLIN
CLEAR LAKE
SULLY
HAND
MILLER
HYDE
BEADLE
HURON
KINGSBURY
BROOKINGS
MEADE
STANLEY
HAAKON
LAWRENCE
PENNINGTON
JONES
LYMAN
MURDO
BUFFALO
JERAULD
SANBORN
MINER
LAKE
MOODY
AURORA
BRULE
PLANKINTON
HANSON
MITCHELL
DAVISON
MINNEHAHA
CUSTER
JACKSON
MELLETTE
SHANNON
TRIPP
GREGORY
DOUGLAS
HUTCHINSON
TURNER
LINCOLN
FALL RIVER
MARTIN
BENNETT
TODD
CHARLES MIX
YANKTON
VERMILLION
ELK POINT
N
HEADQUARTERS
REPC Rushmore Electric Power Cooperative
EREPC East River Electric Power Cooperative
SDREA South Dakota Rural Electric Association
Member Cooperative Headquarters
TEXT LEGEND
CO-OP SERVICE AREA
COUNTY DESCRIPTION
HEADQUARTERS
HEADQUARTERS CITY
CITY and TOWN DESCRIPTION
STATE DESCRIPTION
Produced by
RUSHMORE ELECTRIC POWER COOPERATIVE, INC.
ENGINEERING DEPARTMENT
RAPID CITY, SOUTH DAKOTA
DRAWN BY: S. PIWAN
SCALE: NONE
DRAWING NAME: SDREAMAP.DWG
UPDATED: MAY 2005



Independent DSL **(181)**

Qwest DSL **(13)**

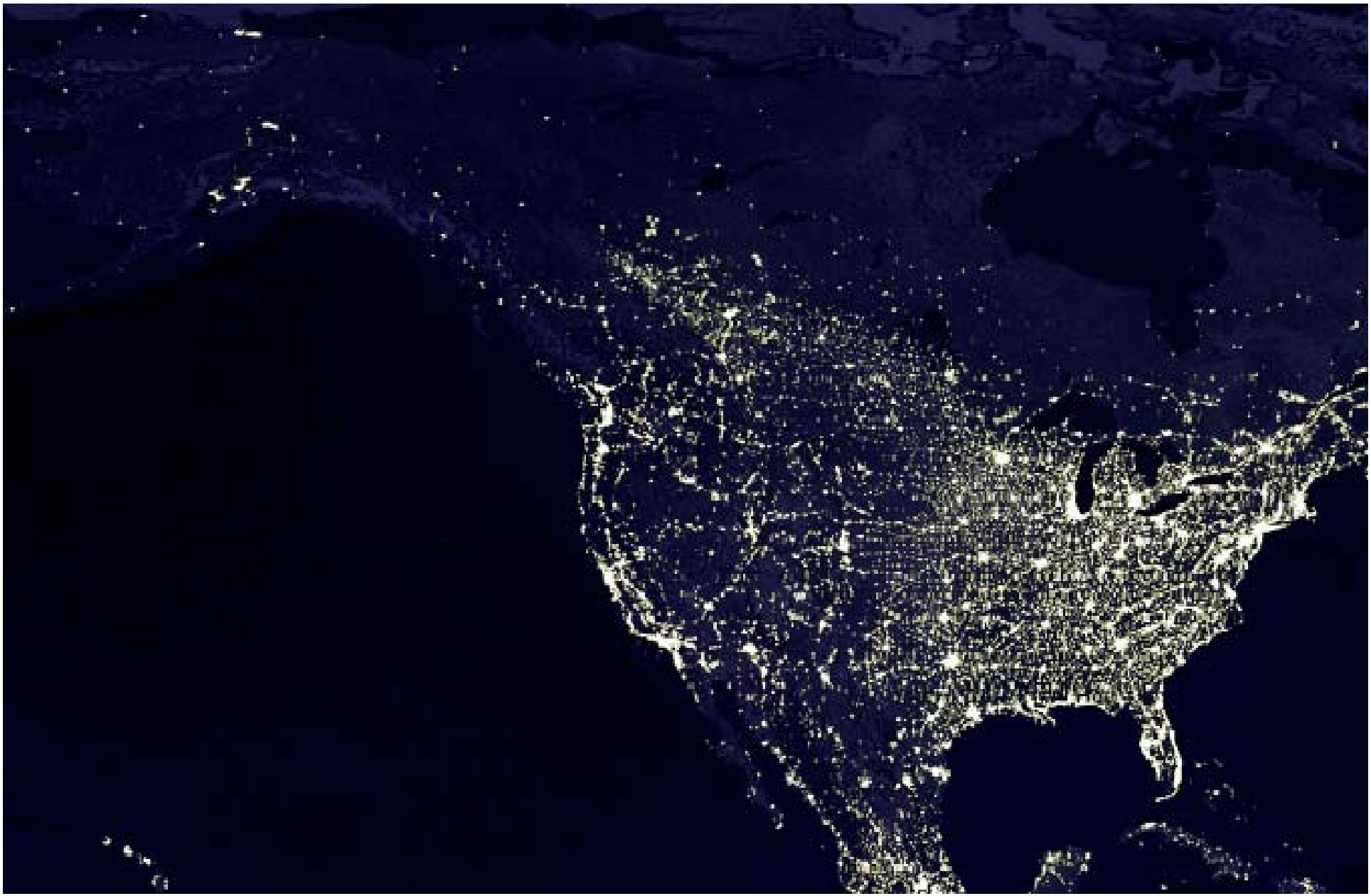
Cable Modem **(63)**

Wireless Telecommunications

In

South Dakota

The United States:



Legislation Pass in 2004

- Allows telecommunications equipment to be installed in city parks.

- Rep. Joel Dystrka from Canton, SD

Cities and Towns

Sioux Falls

Rapid City

Watertown

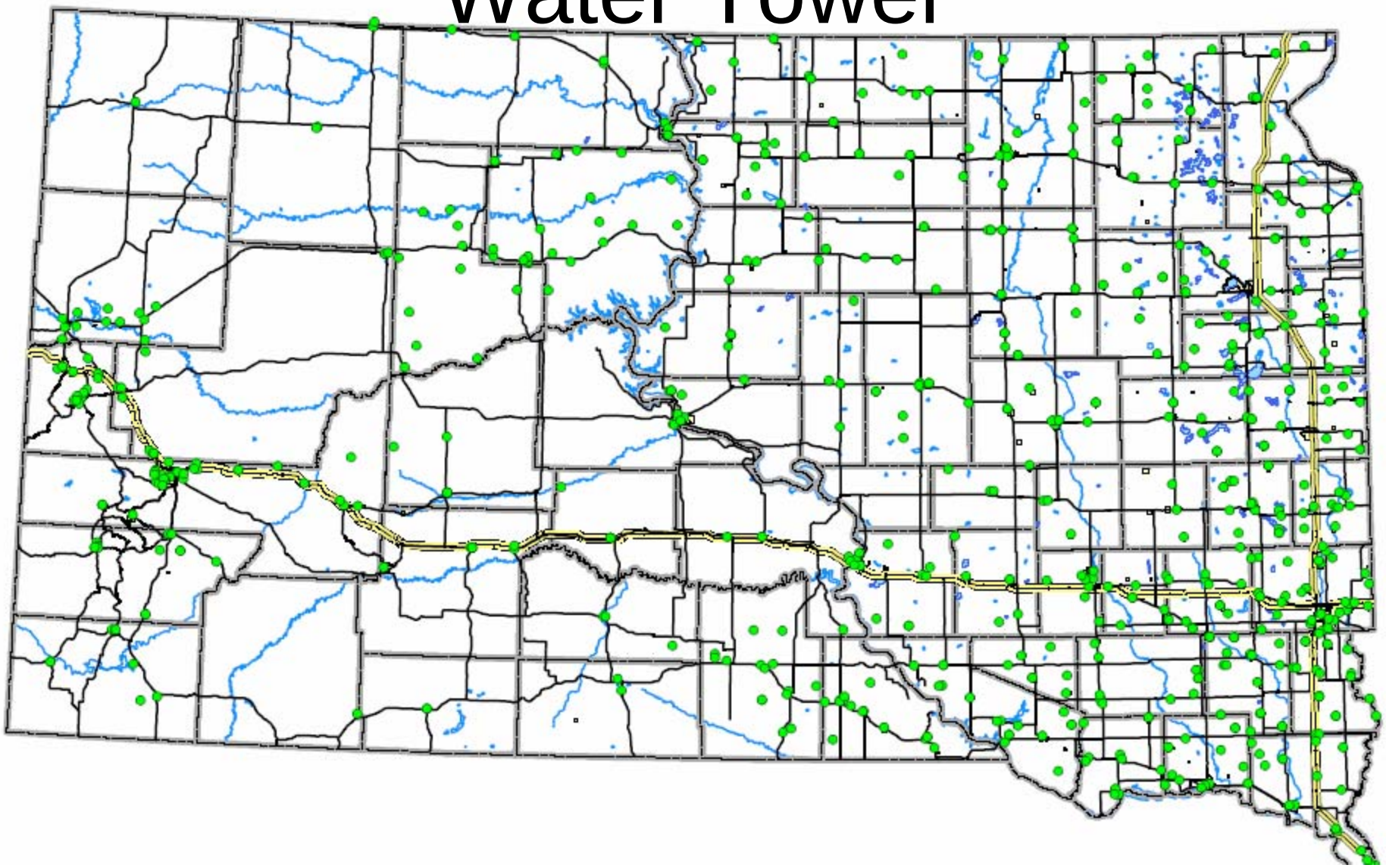
Canton

Vermillion

Custer

Canton

Water Tower



What We Did

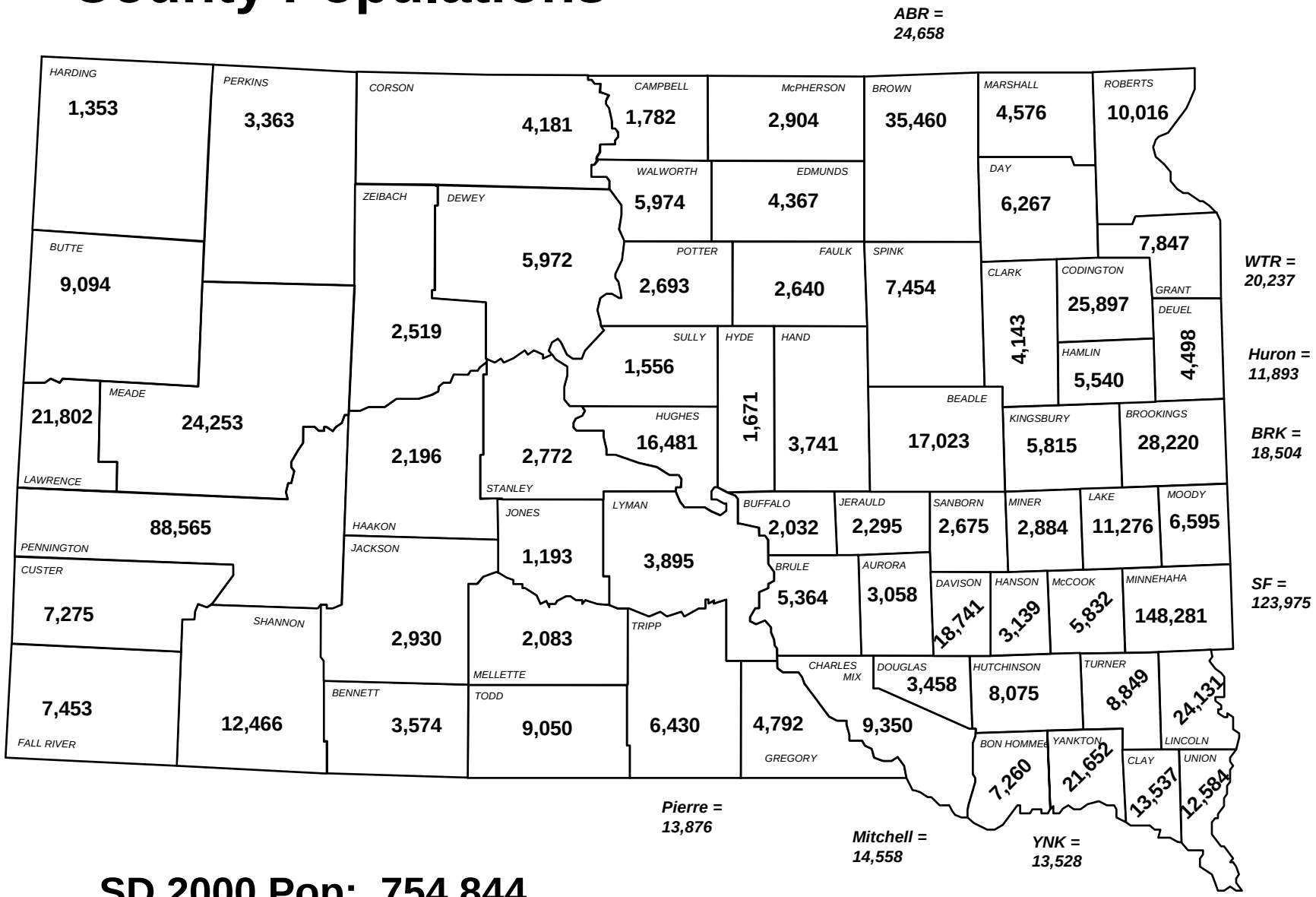
- Contacted the County Auditor office
  Tabulated the numbers

Many variables in the county by county numbers

State Wide Ave 2002 39 Percent

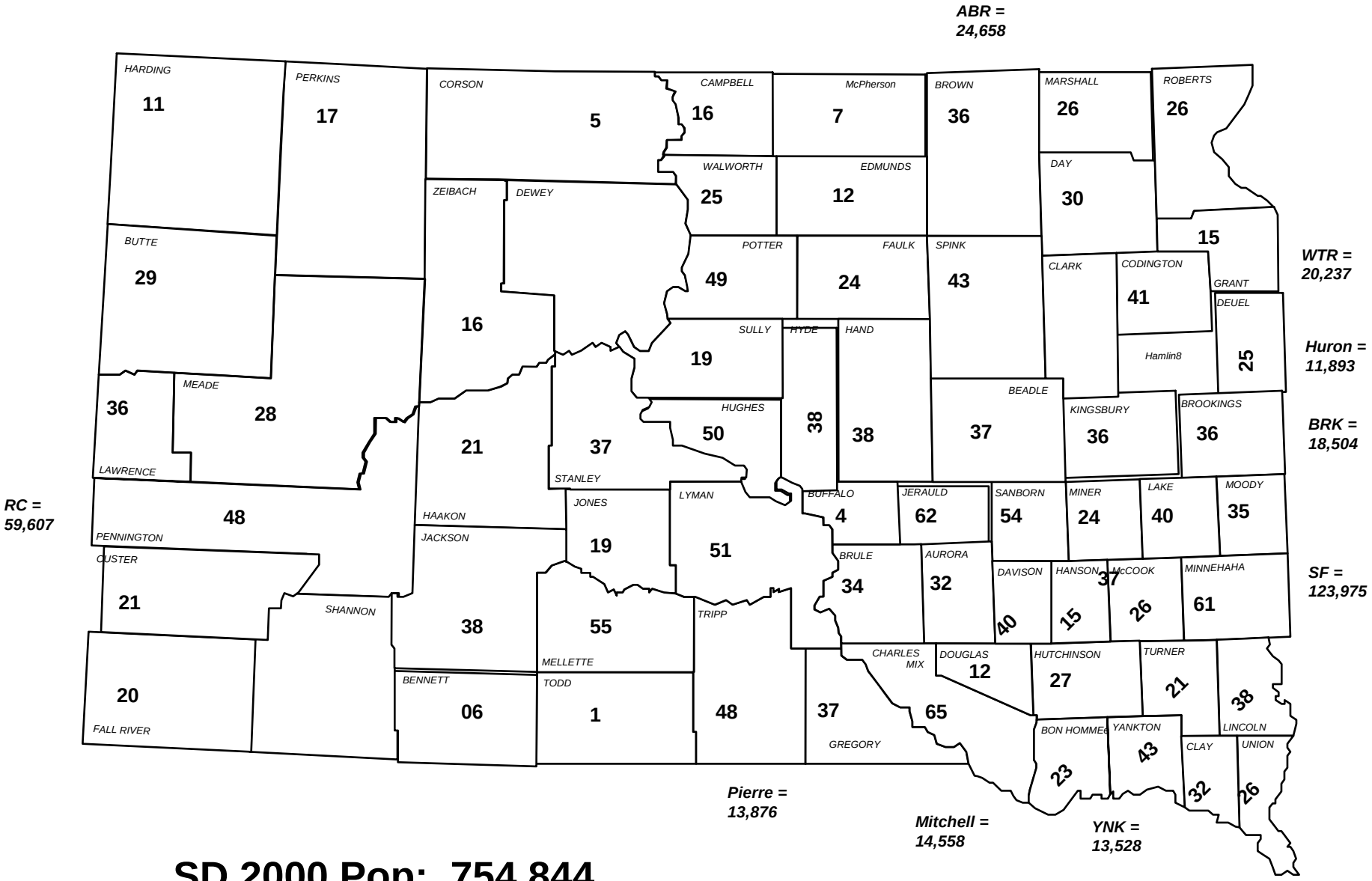
2003 42 Percent

County Populations



SD 2000 Pop: 754,844

2003 Percent of Cell Phone Per Captia



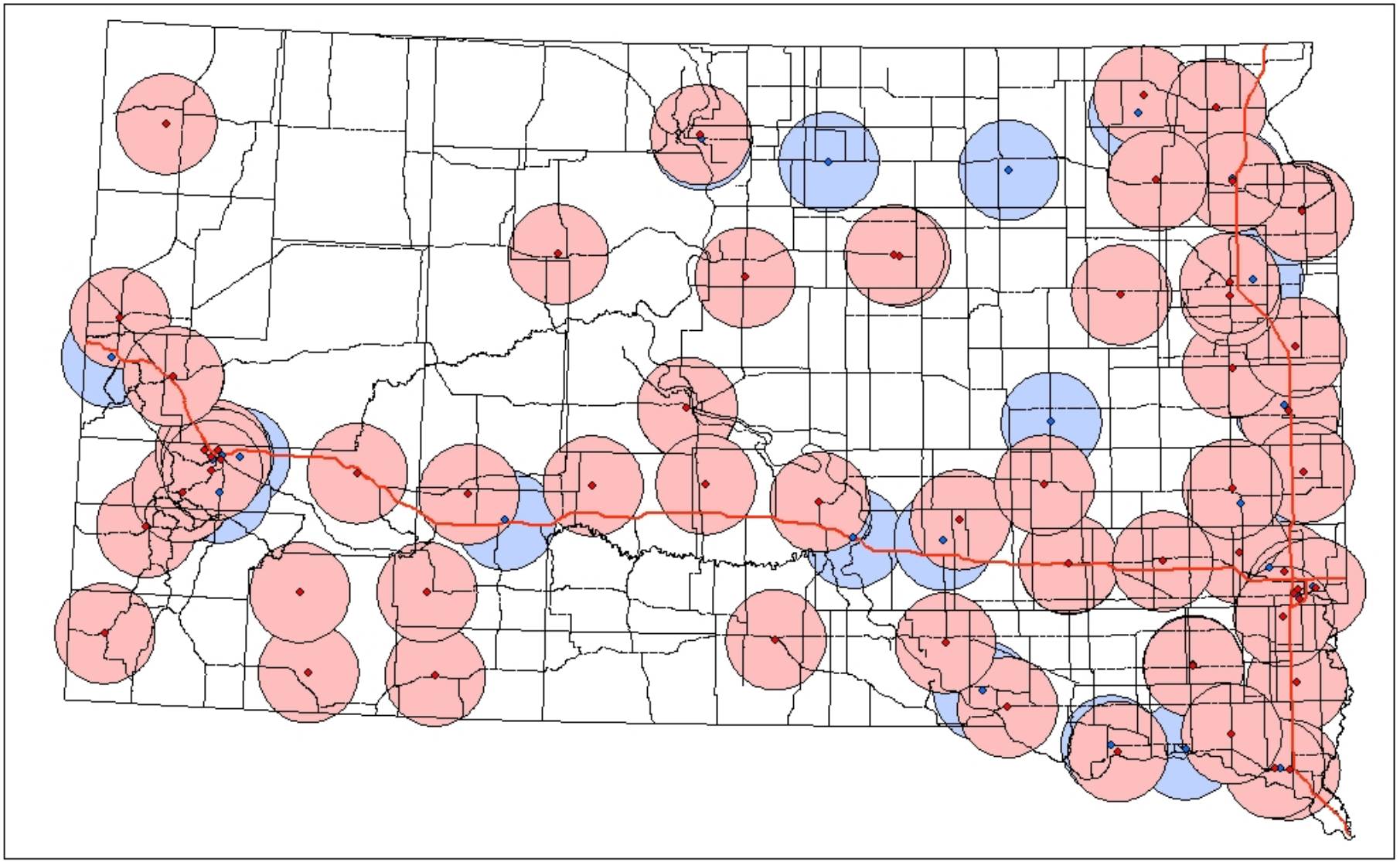
SD 2000 Pop: 754,844

Mapping Sites

- South Dakota Department of Transportation
- Surface maps
- Aeronautical Chart with towers
- Traffic count
- http://www.sddot.com/pub.asp

Data Bases

- FCC Universal Licensing http://wireless.fcc.gov/cgi-bin/wtb-datadump.pl



A and B Side Wireless

- A Side Towers
- B Side Towers
- Interstates - TIGER
- Highways - TIGER
- Counties - TIGER
- A Side Coverage Area
- B Side Coverage Area

N

0 30 60 120 180 Miles

South Dakota GIS

Questions

Thank you