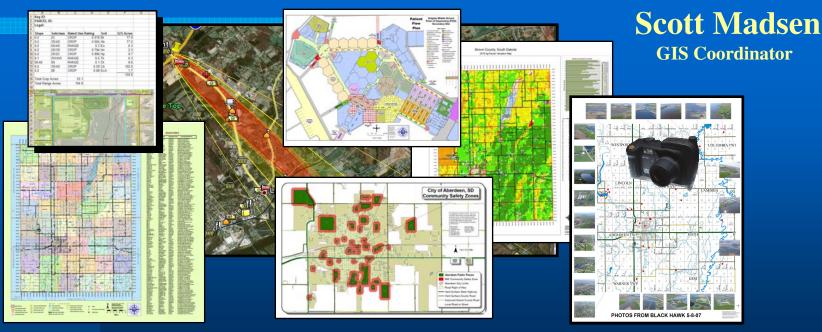


Brown County

South Dakota

"A Local Perspective on GIS"

October 20, 2010



25th Regional Local Roads Conference, Rapid City, SD

FACT:

95% of all government information is spatial in nature

Brown County Departments Using or Benefiting from GIS:

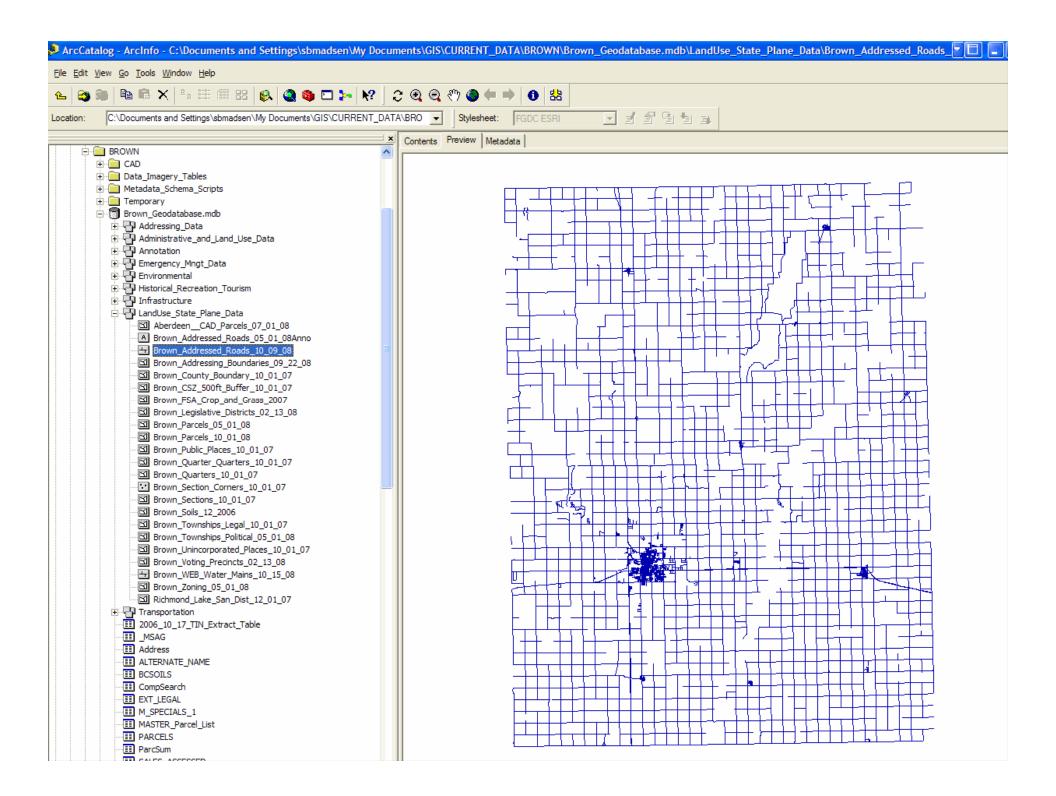
- Equalization (Assessor)
- Zoning & 911-Addressing
- E911 Emergency Dispatch
- Emergency Management
- Road and Infrastructure Mngt
- GIS (providing coordination for all county departments)

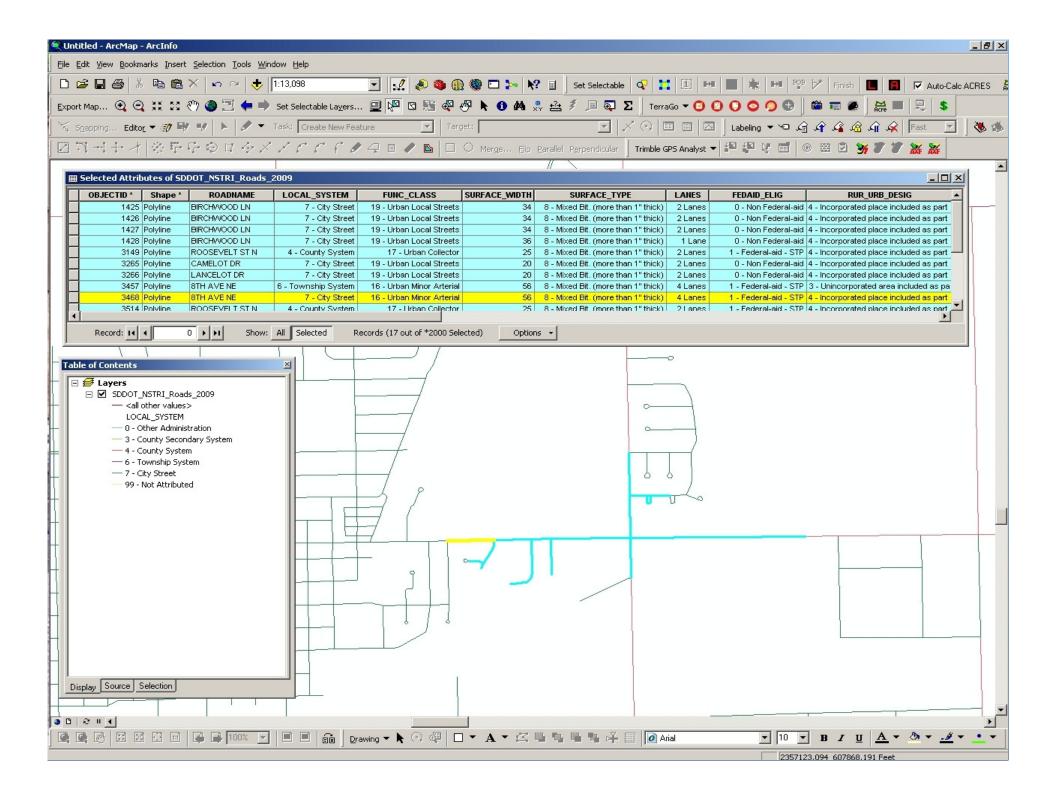
- County Commission
- Sheriff, Jail, JDC, Criminal Investigators
- States Attorney, Court Services
- Auditor, Treasurer, Register of Deeds
- Cooperative Extension, Weed and Pest
- Property Management (Bldg & Grounds)
- Public Assistance (Welfare, VA, Others)

Other Local Organizations Benefiting from Brown County's GIS:

- Fire & Rescue Departments
- Police Departments
- Avera Care Flight
- Area School Districts
- City of Aberdeen Departments
- Rural City Departments
- NorthEast Council of Governments
- Local Media and area Decision Makers

- Local Utility and Engineering Companies
- US Department of Agriculture
- Game, Fish & Parks, US Fish & Wildlife
- Real Estate, Insurance & Finance Companies
- Plat Book, Map and Phone Book Publishers
- National Weather Service
- US Postal Service





SD DOT Dept of Inventory Management

Counties in South Dakota 66

Avg Road Segments per County X 3000

Avg # Data to Attribute to Each Road Segment X 30

Total # Data to Attribute and Maintain Annually: Almost 6 Million

(Local Jurisdiction, Surface Type, Federal Aid, Avg Daily Traffic, etc)

LOCSYS_DESCRIPTION	Total # Segments	Total Feet	Miles
City Street	2456	1067524	202.2
County System Road	1063	3574677	677.0
No Local Administration	101	233978	44.3
State Highway System	368	1123384	212.8
Township System Road	2736	10647746	2016.6
TOTALS:	6724	16647310	3153

Brown County:

Road Segments: 6700 Data per Segment: x 30

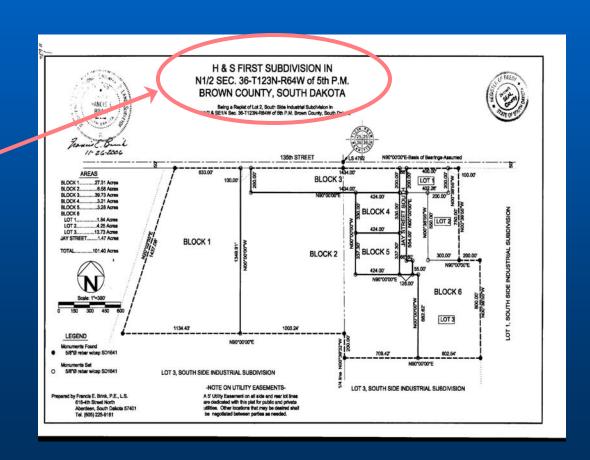
200,000 Data

Supports Planning & Development

Where is it located?

Who is it going to affect?

What is it going to affect?



Supports Road ROW and Corridor Research

Legal Description: N ½ of SW ¼ S25 – T125N – R64W Ex School Lot

Lot 3 of 3rd
Replat of
Millers OL F

Ex Rd Row



Proactive vs Reactive



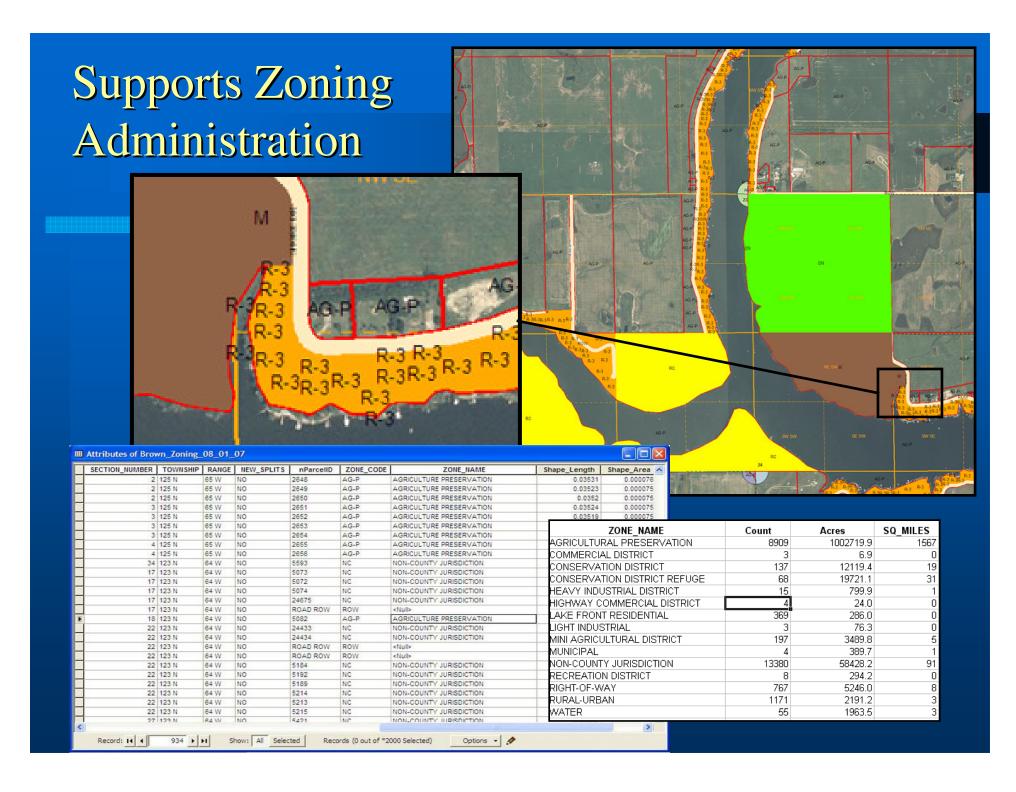


Parcel Database Planning Example				
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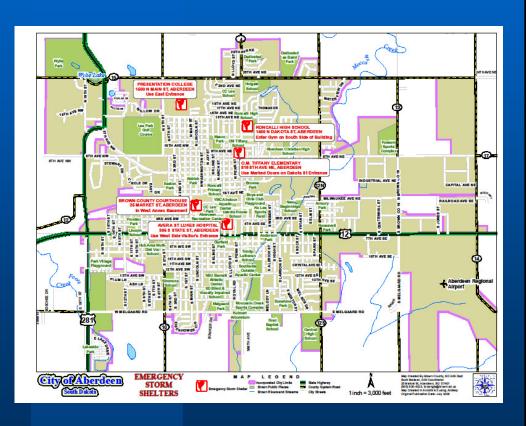
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1	PARCEL	QUARTE		TOWNSHIP	RANGE	vcPayerLas	vcPayerFir		evcPayerA_1	vcPayerCit	cPayerSta	cPayerZip	cPayerZipP	
2	7714	NE	7	121 N	62 W	JARK	KENNETH	R.	401 21ST AVE NE	ABERDEEN	SD	57401	1310	
3	7782	NE	18	121 N	62 W	LUEDEKE	DAYLE		14497 395TH AVE	STRATFORD	SD	57474	7121	
4	4574	NW	27	123 N	62 W	LOCKEN	JONATHAN	E	13755 396TH AVE	BATH	SD	57427	6503	
5	4575	SE	27	123 N	62 W	LOCKEN	JONATHAN	E	13755 396TH AVE	BATH	SD	57427	6503	
6	4576	SW	27	123 N	62 W	LOCKEN	JONATHAN	E	13755 396TH AVE	BATH	SD	57427	6503	
7	4622	NE	28	123 N	62 W	SVARSTAD	ARNE	N	13797 392ND AVE	ABERDEEN	SD	57401	8560	
8	4625	SE	28	123 N	62 W	STAHL	EARL		39657 133RD ST	BATH	SD	57427	5903	
9	4660	NW	33	123 N	62 W	SWENSON	REED	D	1508 MEADOWBROOK CT	ABERDEEN	SD	57401	7700	
10	3905	NW	12	123 N	62 W	KNUDSEN	STANLEY	K	13147 399TH AVE	GROTON	SD	57445	5904	
11	3914	SW	13	123 N	62 W	WALTER	VERNON	R	RR 2 BOX 129	GROTON	SD	57445	0	
12	3915	NW	14	123 N	62 W	KNUDSEN	STANLEY	K	13147 399TH AVE	GROTON	SD	57445	5904	
13	6772	NE	4	122 N	62 W	LOCKEN	ROGER	W	39667 136TH ST	BATH	SD	57427	5922	
14	3836	NE	1	123 N	62 W	PRAY	ROBERT		12975 YORKVILLE RD	GROTON	SD	57445	5407	
15	3845	NW	2	123 N	62 W	LOCKEN	ROGER	W	39667 136TH ST	BATH	SD	57427	5922	
16	4184	NE	3	123 N	62 W	SIEBER	KAREN	R.	39714 130TH ST	BATH	SD	57427	5300	
17	4196	NW	4	123 N	62 W	BOYNTON	CHARLES	L	39752 130TH ST	BATH	SD	57427	5300	
18	4197	SE	4	123 N	62 W	SPERRY	SCOTT	A	39600 132ND ST	BATH	SD	57427	5902	
19	4199	SW	4	123 N	62 W	SPERRY	JOHN	W		WATERTOWN	SD	57201	5522	
20	4262	NE	9	123 N	62 W	BEAMAN	FLOYD	A	13143 397TH AVE	BATH	SD	57427	5911	
21	4263	NW	9	123 N	62 W	SPERRY	JOHN	W		WATERTOWN	SD	57201	5522	
22	4268	NE	10	123 N	62 W	SVARSTAD	ARNE	N	13797 392ND AVE	ABERDEEN	SD	57401	8560	
23	4269	NW	10	123 N	62 W	SVARSTAD	ARNE	N	13797 392ND AVE	ABERDEEN	SD	57401	8560	~
I I I mile_parcels										>				

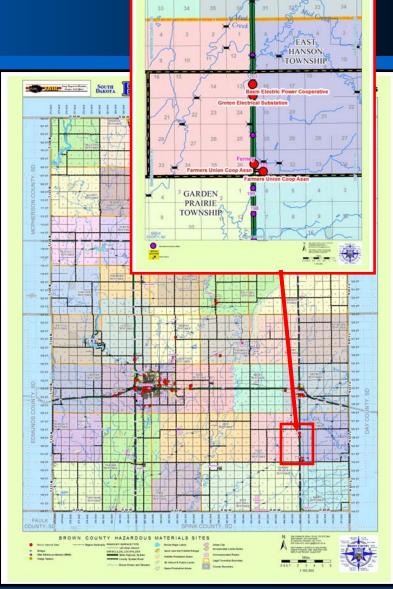
Microsoft Excel - Pa File Edit View

Ready

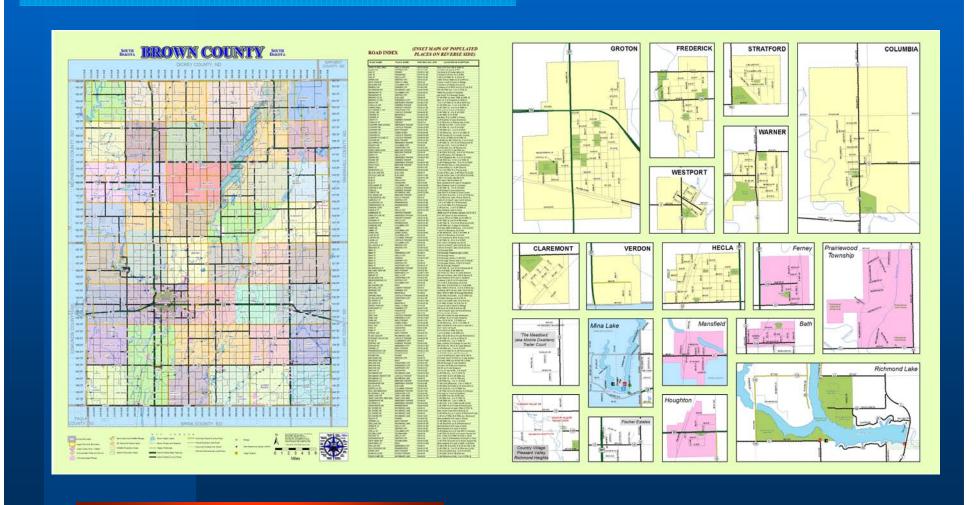


Emergency Planning





Supports E-911 Response

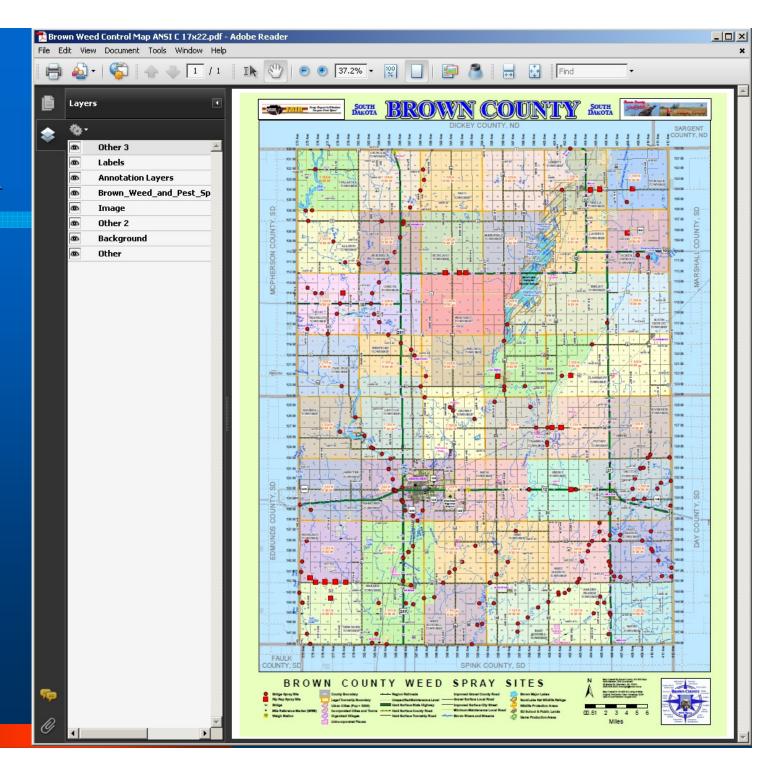


Supports Public Access to Information



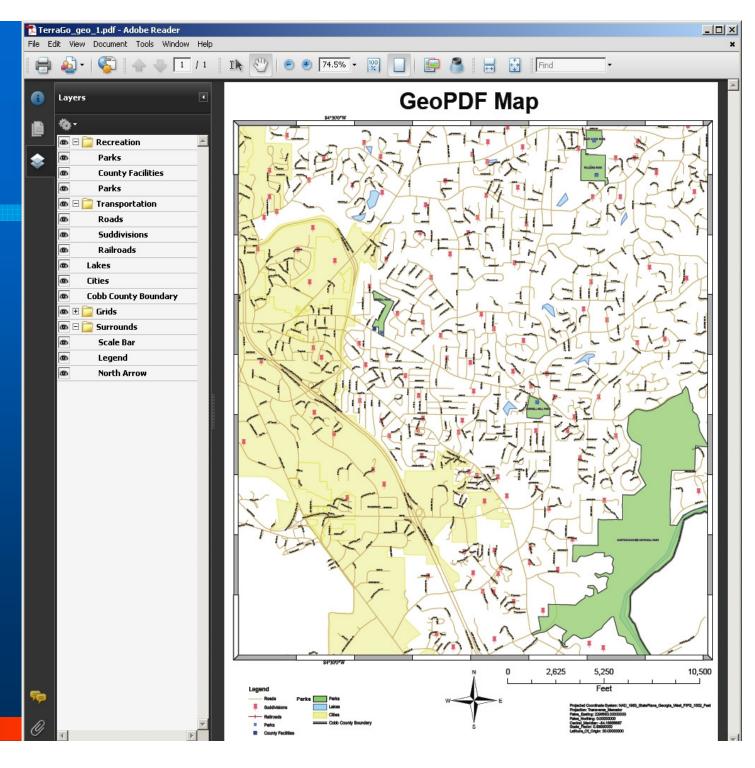
Weed Control

'GEO'
PDF
Maps
Become
Interactive



GeoPDF

GIS
Layers and
Attributes
Become
Accessible
to NonGIS Users







2007 Flood







The Social and Economic Impact

General Impacts:

- Damage to Infrastructure, Property, Crops, Livestock & Land
- Disruption of public services including E911
- Revenue loss to agriculture-related businesses and industries
- Negative impact of economic multipliers 'trickle-down' effect







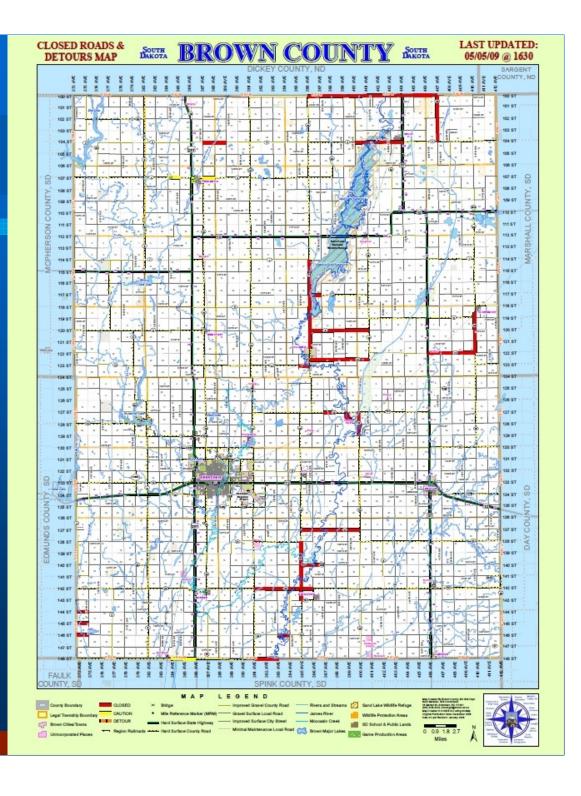




Road Closures Begin

E-911 Services in Flood-Inundated Areas Become Severely Limited

Road Closure Maps Allow Responders and Local Residents to Plan Accordingly



Road Repairs Begin

Online Status Maps Save
Phone Calls to the
Highway Department and
County Commissioners

121 ST ST

124TH ST

29TH S









GeoMapping



