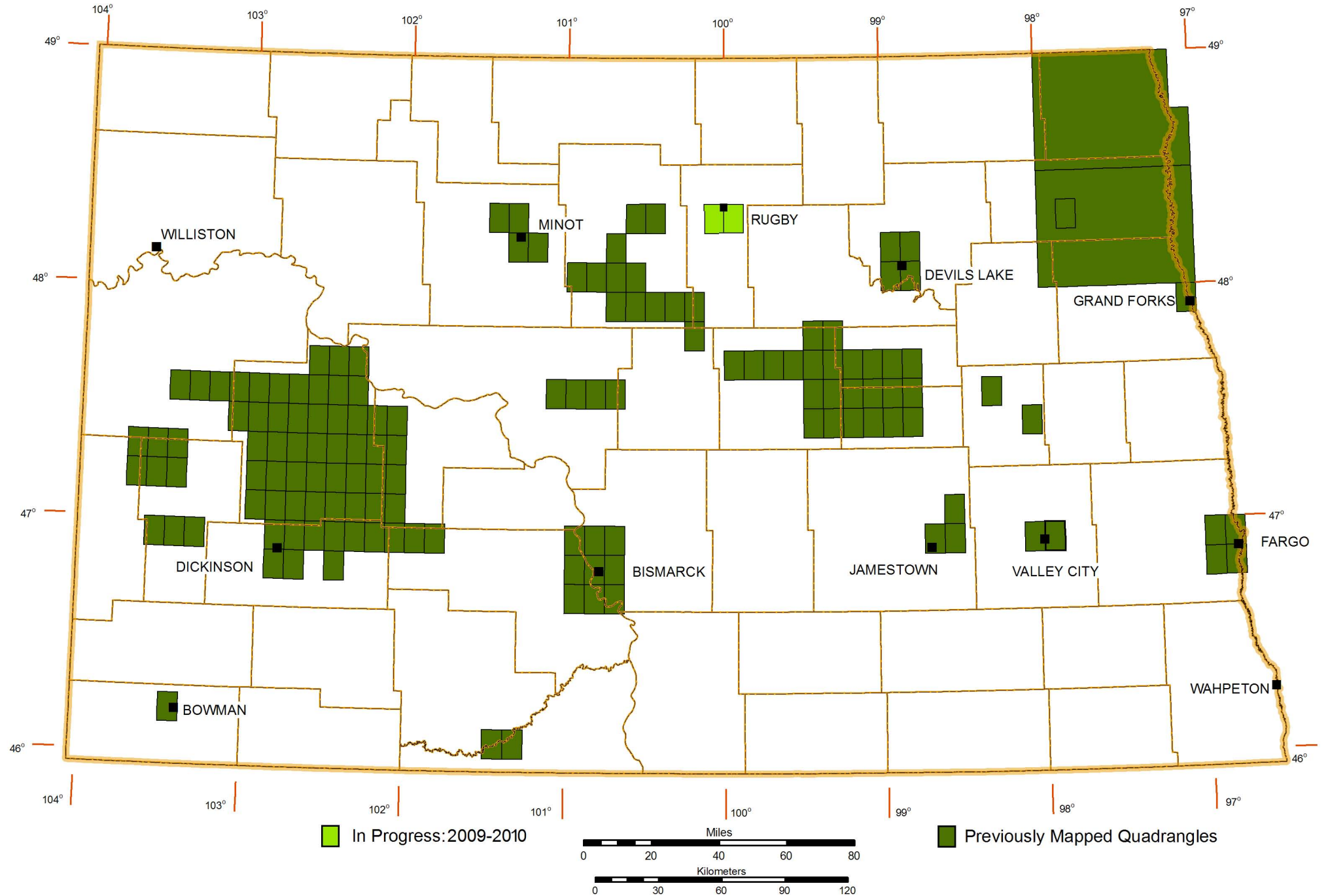
STATEMAP 24K & 100K SURFACE GEOLOGY QUADRANGLES



SUMMARY OF STATEMAP
GEOLOGIC MAPPING PROGRAM IN NORTH DAKOTA

Federal Fiscal Year	Project Title	Federal Dollars	State Dollars	Total Project Dollars
93	Jamestown Area	$ 18,049	18,049	36,098
94	Dickinson Area	$ 23,040	23,517	46,557
95	Theodore Roosevelt Nat'l Park	$ 9,000	10,296	19,296
96	1. Bismarck/Mandan, 2. Grafton	$ 29,584	32,685	62,269
97	Bismarck/Mandan Area	$ 9,410	9,410	18,820
98	Bismarck/Mandan Area	$ 9,410	9,410	18,820
99	Cavalier County	$ 7,185	7,185	14,370
00	Walsh, Pembina, Cavalier counties	$ 8,324	8,324	16,648
01	Dunn, Mercer, McKenzie, Billings counties	$ 26,222	26,500	52,722
02	Dunn, Mercer, McKenzie, Billings counties	$ 26,222	26,500	52,722
03	McKenzie, Billings, Stark, Ramsey counties	$ 28,617	28,617	57,234
04	Stark, Ramsey, Cass, Grand Forks counties	$ 20,018	20,200	40,218
05	Stark County and Minot	$ 17,247	17,247	34,494
06	Fargo, Devils Lake, and Stark County	$ 27,381	53,709	81,090
07	Fargo, Valley City, and Bowman County	$ 31,631	59,581	91,212
08	Fargo and Valley City	$ 20,061	44,473	64,534
09	Rugby Area	$ 26,057	39,837	65,894
	TOTAL	**$ 337,458**	**435,540**	**772,998**

The North Dakota Geological Survey has completed a number of geologic mapping projects utilizing funding from the National Cooperative Geologic Mapping Program (STATEMAP). The timely completion of these projects was made possible by funding from this program. Most of these projects have resulted in detailed geologic maps at a scale of 1:24,000. Geologic maps have been created for a number of urban areas in the state including Bismarck, Devils Lake, Dickinson, Fargo, Grand Forks, Jamestown, Minot, and Valley City. Geologic hazards such as landslides, flooding, and avoidance features (abandoned mine lands, gravel pits, and landfills, for example) and the locations of potentially economic mineral resources (principally sand and gravel) were identified on these maps. Geologic maps of urban areas are a vital source of information for city engineers, developers, geotechnical consultants, aggregate companies, etc. Mapping in the Theodore Roosevelt National Park engendered a geologic report and maps which are being used by Park personnel for management purposes and by Park visitors (including hikers, bicyclists, etc.) as recreational guides. Several mapping projects in the northeastern corner of North Dakota enabled the completion of a 1:100,000 scale mapping program of the flood-prone corridor of the Red River Valley. Other

recently completed projects (1:24,000 scale) include an eight-quadrangle area in southwestern North Dakota encompassing potential sites for the location of a new kaolinitic clay pit, a four-quadrangle set that covers the rapidly expanding Fargo metropolitan area, and the two-quadrangles that encompass the landslide- and flood-prone community of Valley City. One-half of a four-quadrangle set centered on the community of Rugby in north-central North Dakota will be completed in June 2010. No new mapping is scheduled for FY1011.

Revised 06/21/10