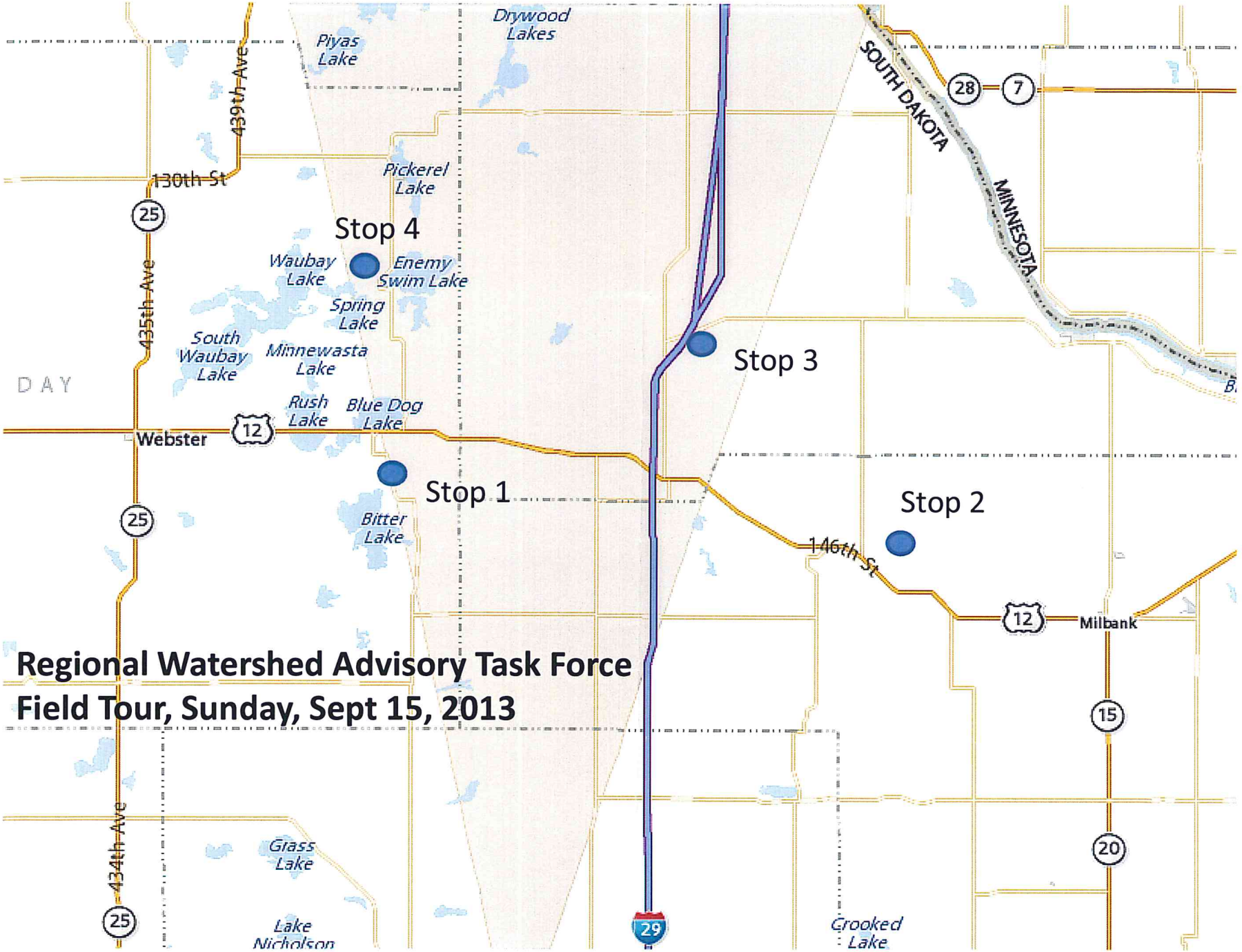
Document #1



Regional Watershed Advisory Task Force
Field Tour, Sunday, Sept 15, 2013

Lake Conservation Notes

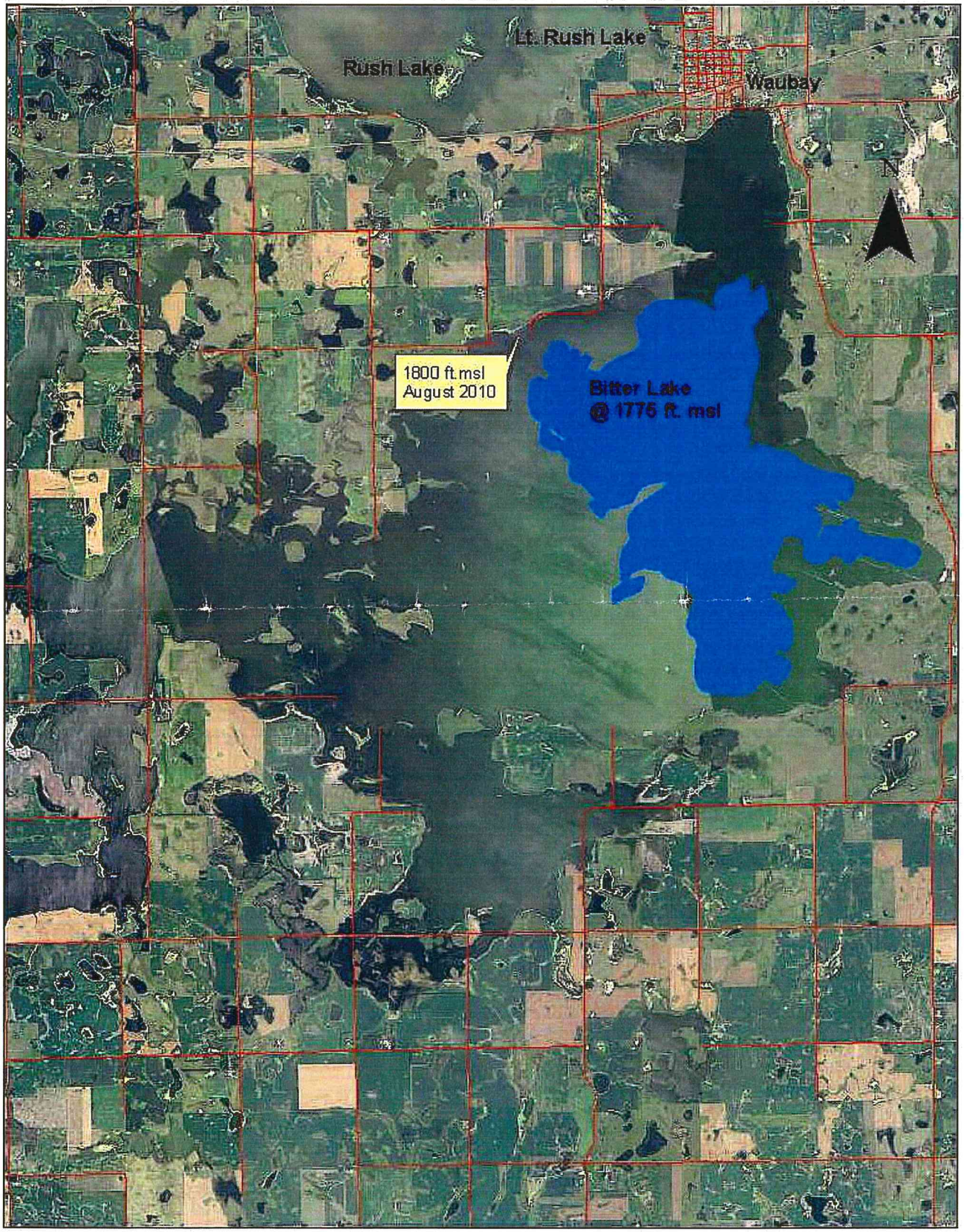
Northeast Glacial Lakes Watershed Project
600 East Hwy 12, Suite 1
Webster, SD 57274
Phone: 605/345-4661

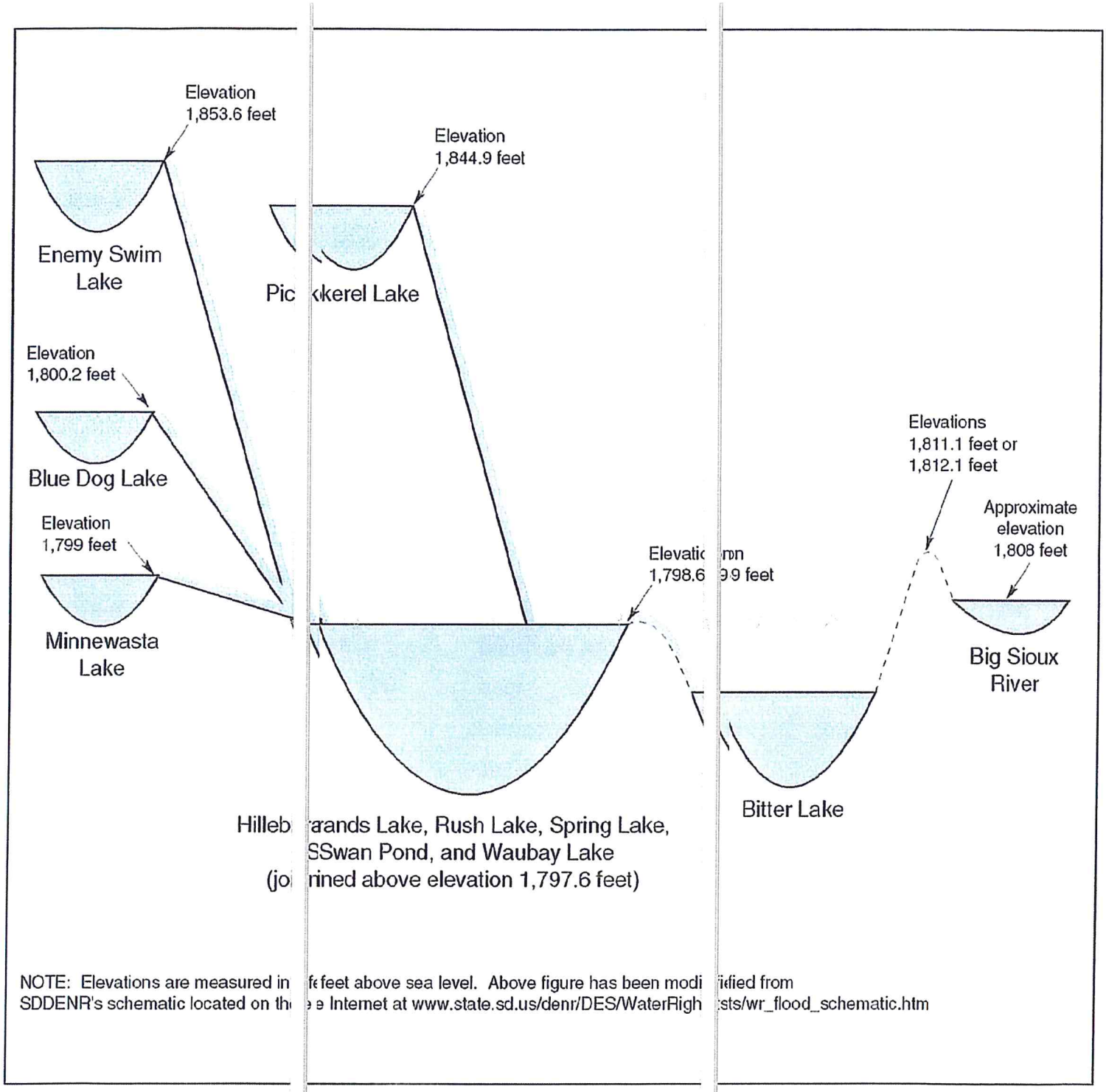
Bitter Lake Elevations 1984-2012

Date	Elevation	Date	Elevation
10/11/83	dry	04/29/03	1795.5
06/08/84	1770.0	10/07/03	1794.7
07/07/85	1770.8	06/21/04	1794.5
10/09/85	1770.4	09/14/04	1794.6
05/06/86	1772.8	05/11/05	1794.4
09/24/86	1773.8	09/23/05	1793.9
04/23/87	1774.2	04/18/06	1794.1
10/06/87	1773.0	09/20/06	1793.3
04/19/88	1773.0	05/09/07	1794.1
09/21/88	1772.0	10/17/07	1794.7
04/26/89	1772.6	05/07/08	1793.2
10/18/89	1772.0	10/21/08	1793.9
05/02/90	1772.3	4/29/09	1797.2
09/19/90	1771.6	09/30/09	1797.2
05/02/91	1771.8	04/27/10	1799.8
10/03/91	1772.8	10/06/10	1799.9
04/29/92	1773.0	07/18/11	1803.0
09/16/92	1772.6	10/04/11	1802.3
05/12/93	1773.4	05/09/12	1802.9
09/22/93	1773.2	09/26/12	1801.6
05/05/94	1777.6		
09/14/94	1779.0		
05/10/95	1781.6		
10/10/95	1782.6		
05/08/96	1784.4		
06/05/96	1785.0		
10/09/96	1784.4		
04/10/97	1786.4		
05/20/97	1788.8		
10/07/97	1788.2		
05/20/98	1790.8		
04/07/99	1791.2		
11/02/99	1792.2		
05/15/00	1793.1		
11/06/00	1792.8		
06/18/01	1795.6		
10/30/01	1795.0		
06/24/02	1795.9		
10/23/02	1795.2		

Surface Area

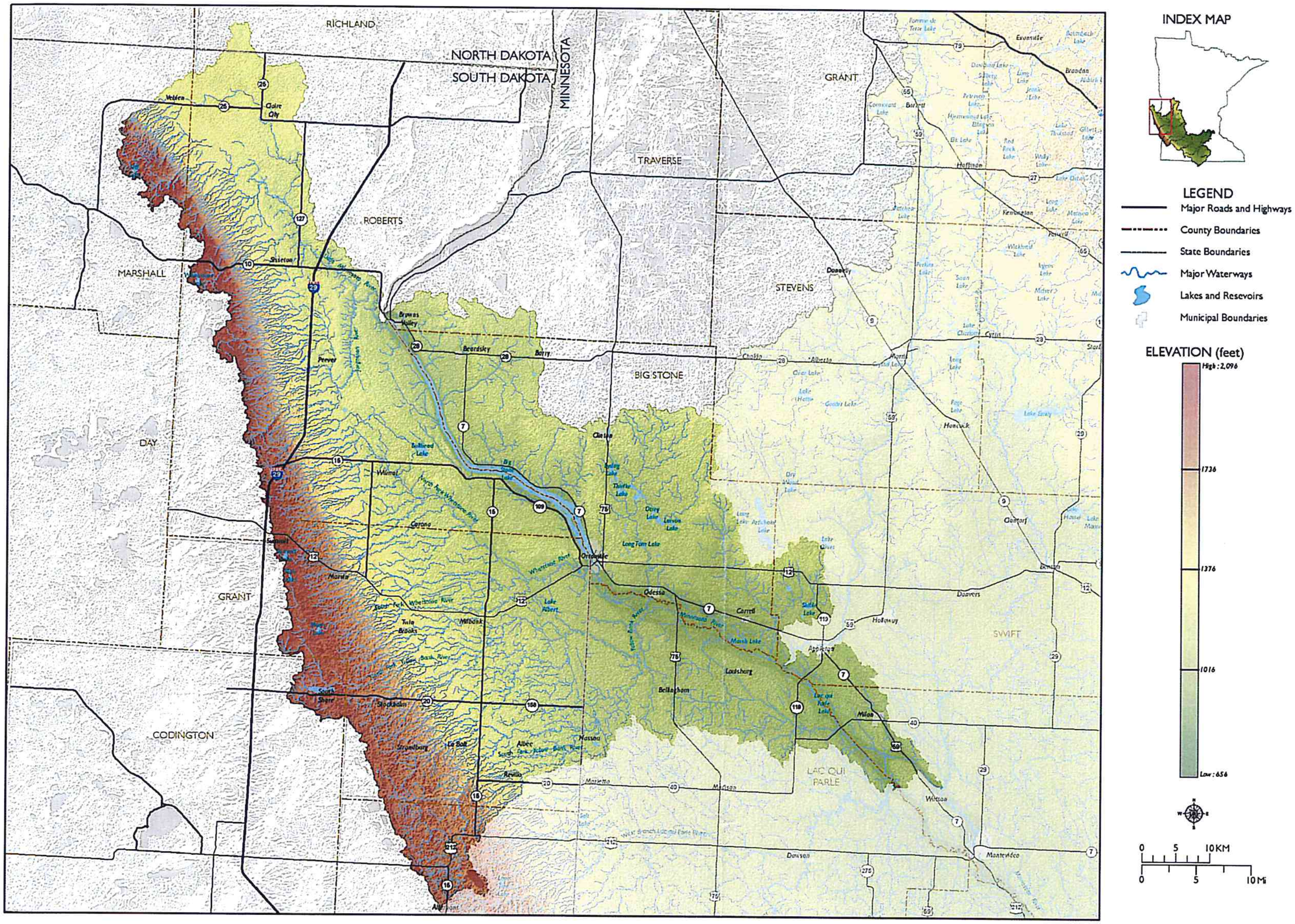
Elevation	Acres
1770	1226
1775	3663
1780	4233
1785	5719
1790	8408
1797	13651
1798	14503
1799	15376
1800	16269
1801	17180
1802	18110
1803	19056
1804	20020


Lt. Rush Lake
Rush Lake
Waubay
N
1800 ft msl
August 2010
Bitter Lake
@ 1775 ft. msl



NOTE: Elevations are measured in feet above sea level. Above figure has been modified from SDDENR's schematic located on the Internet at www.state.sd.us/denr/DES/WaterRights/wr_flood_schematic.htm

Figure 2. Lake connections for the Waubay Lakes Chain with the farm crossings removed at the outlet between Rush and Bitter Lakes (Supplement to the Task 4 Report).



UPPER MINNESOTA RIVER MAJOR WATERSHED

MINNESOTA RIVER BASIN DATA CENTER

WRC

WATER RESOURCES CENTER
MINNESOTA STATE UNIVERSITY, MANKATO
Map produced by: Nicole D Rietz