

Appendix 2. Inclusion/Exclusion Justification for Data Reported by County

For 24 Michigan, Minnesota, and Wisconsin Counties Partly or Wholly in the Lake Superior Watershed
(Based on U.S. Census TIGER Census Block Group (CBG) Demographics files)

County Totals	CBGs* Mostly in Watershed	CBGs* All or Mostly Outside Watershed	Included/Excluded (Notes, if any)
Alger, MI (13 CBGs) Land_km 2,377.5 Water_km 274.2 Total area 2,651.7 Persons 8,972	9 CBGs (4 completely in) Land_km 1,589.9 Water_km 259.6 Total area 1,849.5 Persons 5,653 (63%)	4 CBGs (0 completely out) Land_km 787.6 Water_km 14.6 Total area 802.2 Persons 3,319 (37%)	Included in watershed
Baraga, MI (10 CBGs) Land_km 2,341.8 Water_km 101.4 Total area 2,443.1 Persons 7,954	9 CBGs (6 completely in) Land_km 1,861.4 Water_km 83.4 Total area 1,944.8 Persons 7,711 (97%)	1 CBG (0 completely out) Land_km 480.3 Water_km 18.0 Total area 498.3 Persons 243 (3%)	Included in watershed
<i>Chippewa, MI</i> (43 CBGs) Land_km 4,043.2 Water_km 895.6 Total area 4,938.8 Persons 34,604	12 CBGs (7 completely in) Land_km 1,745.1 Water_km 245.5 Total area 1,990.6 Persons 8,540 (25%)	31 CBGs (25 completely out) Land_km 2,298.1 Water_km 650.1 Total area 2,948.2 Persons 26,064 (75%)	Excluded from watershed
Gogebic, MI (24 CBGs) Land_km 2,854.0 Water_km 143.8 Total area 2,997.8 Persons 18,052	24 CBGs (21 completely in) Land_km 2,854.0 Water_km 143.8 Total area 2,997.8 Persons 18,052	0 CBGs	Included in watershed About 1/3 of one CBG and small parts of two others are outside watershed.
Houghton, MI (42 CBGs) Land_km 2,620.4 Water_km 177.9 Total area 2,798.3 Persons 35,446	42 CBGs (42 completely in) Land_km 2,620.4 Water_km 177.9 Total area 2,798.3 Persons 35,446 (100%)	0 CBGs	Included in watershed All CBGs are completely in watershed.
<i>Iron, MI</i> (20 CBGs) Land_km 3,021.2 Water_km 115.7 Total area 3,136.9 Persons 13,175	0 CBGs	20 CBGs (18 completely out) Land_km 3,021.2 Water_km 115.7 Total area 3,136.9 Persons 13,175	Excluded from watershed About 1/3 of one CBG and small corner of another are in watershed, < 2.5% pop.
Keweenaw, MI (7 CBGs) Land_km 1,401.7 Water_km 2,295.0 Total area 3,696.7 Persons 1,701	7 CBGs (7 completely in) Land_km 1,401.7 Water_km 2,295.0 Total area 3,696.7 Persons 1,701 (100%)	0 CBGs	Included in watershed All CBGs are completely in watershed.
Luce, MI (9 CBGs) Land_km 2,339.0 Water_km 120.0 Total area 2,459.0 Persons 5,763	8 CBGs (6 completely in) Land_km 2,309.2 Water_km 98.4 Total area 2,407.6 Persons 5,430 (94%)	1 CBG (1 completely out) Land_km 29.8 Water_km 21.6 Total area 51.4 Persons 333 (6%)	Included in watershed About 1/5 of one CBG counted in and 1/6 to 1/5 of another are outside watershed
<i>Mackinac, MI</i> (22 CBGs) Land_km 2,645.9 Water_km 696.3 Total area 3,342.2 Persons 10,674	0 CBGs	22 CBGs (20 completely out) Land_km 2,645.9 Water_km 696.3 Total area 3,342.2 Persons 10,674	Excluded from watershed About 1/5 of one CBG and 1/7 of another are in the watershed (those CBGs together have < 10% of the county population.)
Marquette, MI (79 CBGs) Land_km 4,717.2 Water_km 261.6 Total area 4,978.8 Persons 70,887	62 CBGs (56 completely in) Land_km 1,822.1 Water_km 180.1 Total area 2,002.2 Persons 51,835 (73%)	17 CBGs (11 completely out) Land_km 2,895.1 Water_km 81.5 Total area 2,976.6 Persons 19,052 (27%)	Included in watershed 73% of population inside watershed, 40% of area. One CBG counted out is about half in watershed but most of its population appears outside watershed

*Census Block Groups (U.S. Census TIGER g90 census block demographics; file ls counties 2 grp sel 2.shp)

County Totals	CBGs* Mostly in Watershed	CBGs* All or Mostly Outside Watershed	Included/Excluded (Notes, if any)
Ontonagon, MI (13 CBGs) Land_km 3,397.1 Water_km 148.4 Total area 3,545.5 Persons 8,854	13 CBGs (13 completely in) Land_km 3,397.1 Water_km 148.4 Total area 3,545.5 Persons 8,854 (100%)	0 CBGs	Included in watershed All CBGs are completely in the watershed.
Schoolcraft, MI (12 CBGs) Land_km 3,051.5 Water_km 163.7 Total area 3,215.2 Persons 8,302	0 CBGs	12 CBGs (11 completely out) Land_km 3,051.5 Water_km 163.7 Total area 3,215.2 Persons 8,302	Excluded from watershed Only a very small corner of one CBG is in watershed.
Aitkin, MN (27 CBGs) Land_km 4,712.2 Water_km 455.9 Total area 5,168.1 Persons 12,425	0 CBGs	27 CBGs (26 completely out) Land_km 4,712.2 Water_km 455.9 Total area 5,168.1 Persons 12,425	Excluded from watershed About 1/4 of one CBG is in watershed (that entire CBG has < 3% of population)
Carlton, MN (29 CBGs) Land_km 2,228.4 Water_km 38.6 Total area 2,267.0 Persons 29,259	21 CBGs (19 completely in) Land_km 997.8 Water_km 21.9 Total area 1,019.7 Persons 22,674 (77%)	8 CBGs (4 completely out) Land_km 1,230.6 Water_km 16.7 Total area 1,247.3 Persons 6,585 (23%)	Included in watershed Most of land area outside watershed; most of population inside. One CBG counted in is about half out (1181 persons total in CBG)
Cook, MN (13 CBGs) Land_km 3,757.4 Water_km 557.6 Total area 4,315.0 Persons 3,868	11 CBGs (10 completely in) Land_km 2,854.5 Water_km 380.4 Total area 3,234.9 Persons 3,781 (98%)	2 CBGs (0 completely out) Land_km 902.9 Water_km 177.2 Total area 1,080.1 Persons 87 (2%)	Included in watershed Of the 2 CBGs counted out, ~ 40% of one and 33% of the other are in watershed.
Itasca, MN (57 CBGs) Land_km 6,903.1 Water_km 680.2 Total area 7,583.3 Persons 40,863	1 CBG (0 completely in) Land_km 244.2 Water_km 7.4 Total area 251.6 Persons 322 (0.8%)	56 CBGs (54 completely out) Land_km 6,658.9 Water_km 672.8 Total area 7,331.7 Persons 40,541 (99%)	Excluded from watershed One CBG is about 3/4 in watershed, another about 1/6 in.
Lake, MN (17 CBGs) Land_km 5,437.4 Water_km 514.2 Total area 5,951.6 Persons 10,415	13 CBGs (11 completely in) Land_km 2,264.6 Water_km 60.0 Total area 2,324.6 Persons 9,734 (93%)	4 CBGs (3 completely out) Land_km 3,172.8 Water_km 454.2 Total area 3,627.0 Persons 681 (7%)	Included in watershed Most of land area outside watershed; most of population inside.
Pine, MN (27 CBGs) Land_km 3,654.9 Water_km 60.9 Total area 3,715.8 Persons 21,264	0 CBGs	27 CBGs (25 completely out) Land_km 3,654.9 Water_km 60.9 Total area 3,715.8 Persons 21,264	Excluded from watershed 25% or less of one CBG and ~6% of another is in watershed. (Total population of both CBGs is 916.)
St. Louis, MN (241 CBGs) Land_km 16,124.4 Water_km 1,445.1 Total area 17,569.5 Persons 198,213	201 CBGs (187 completely in) Land_km 8,667.1 Water_km 428.5 Total area 9,095.6 Persons 174,022 (88%)	40 CBGs (32 completely out) Land_km 7,457.3 Water_km 1,016.6 Total area 8,473.9 Persons 24,191 (12%)	Included in watershed
Ashland, WI (21 CBGs) Land_km 2,703.7 Water_km 1,008.3 Total area 3,712.0 Persons 16,307	18 CBGs (17 completely in) Land_km 1,656.7 Water_km 999.9 Total area 2,656.6 Persons 13,607 (83%)	3 CBGs (2 completely out) Land_km 1,047.0 Water_km 8.4 Total area 1,055.4 Persons 2,700 (17%)	Included in watershed One CBG counted in is about 1/2 out. Total population of that CBG is 222.
Bayfield, WI (28 CBGs) Land_km 3,823.9 Water_km 369.9 Total area 4,193.8 Persons 14,008	20 CBGs (16 completely in) Land_km 2,881.5 Water_km 322.4 Total area 3,203.9 Persons 12,297 (88%)	8 CBGs (5 completely out) Land_km 942.4 Water_km 47.5 Total area 989.9 Persons 1,711 (12%)	Included in watershed One CBG counted in is about 30% out (pop. 265); one counted out is about 45% in (pop. 38).

County Totals	CBGs* Mostly in Watershed	CBGs* All or Mostly Outside Watershed	Included/Excluded (Notes, if any)
Douglas, WI (65 CBGs) Land_km 3,391.0 Water_km 120.9 Total area 3,511.9 Persons 41,758	58 CBGs (55 completely in) Land_km 2,039.8 Water_km 74.4 Total area 2,114.2 Persons 39,127 (94%)	7 CBGs (4 completely out) Land_km 1,351.2 Water_km 46.5 Total area 1,397.7 Persons 2,631 (6%)	Included in watershed 3 CBGs counted out are partly in; one counted in is ~40% out (total population in that CBG is 1023).
Iron, WI (14 CBGs) Land_km 1,961.4 Water_km 117.7 Total area 2,079.0 Persons 6,153	8 CBGs (6 completely in) Land_km 1,240.7 Water_km 25.4 Total area 1,266.1 Persons 4,526 (74%)	6 CBGs (5 completely out) Land_km 720.6 Water_km 92.3 Total area 812.9 Persons 1,627 (26%)	Included in watershed All but ~8% of a sixth CBG is out. One CBG counted in is ~50% out (total pop. 144); another is 25-30% out (pop. 385).
Vilas, WI (50 CBGs) Land_km 2,260.5 Water_km 375.9 Total area 2,636.4 Persons 17,707	3 CBGs (1 completely in) Land_km 158.0 Water_km 40.3 Total area 198.3 Persons 595 (3%)	47 CBGs (42 completely out) Land_km 2,102.5 Water_km 335.6 Total area 2,438.1 Persons 17,112 (97%)	Excluded from watershed
24-County Totals CBGs 883 Land_km 91,769 Water_km 11,139 Total area 102,908 Persons 636,624	540 CBGs mostly in 484 CBGs completely in Land_km 42,606 Water_km 5,993 Total area 48,599 Persons 423,907 (67%)	343 CBGs mostly out 288 CBGs completely out Land_km 49,163 Water_km 5,146 Total area 54,309 Persons 212,717 (33%)	
16 Counties in Watershed CBGs 625 Land_km 61,476 Water_km 7,694 Total area 69,171 Persons 477,610	524 CBGs mostly in 476 CBGs completely in Land_km 40,459 Water_km 5,699 Total area 46,158 Persons 414,450 (87%)	101 CBGs mostly out 67 CBGs completely out Land_km 21,018 Water_km 1,995 Total area 23,013 Persons 63,160 (13%)	
8 Counties Outside Watershed CBGs 259 Land_km 30,292 Water_km 3,444 Total area 33,737 Persons 159,014	16 CBGs mostly in 8 CBGs completely in Land_km 2,147 Water_km 293 Total area 2,441 Persons 9,457 (6%)	243 CBGs mostly out 222 CBGs completely out Land_km 28,145 Water_km 3,151 Total area 31,296 Persons 149,557 (94%)	

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