

MN Manoomin Occurrence Spatial Data
Great Lakes Indian Fish & Wildlife Commission
July 2020

Data Source and Description: Minnesota manoomin occurrence point data was provided by the 1854 Treaty Authority and Minnesota Pollution Control Agency. GLIFWC staff merged the two data sets and using the provided data, assigned polygons to open water features where they were able to link the water feature to the original point data. See process notes below.

Attribute Accuracy: Unknown.

Access Constraints: GLIFWC staff use only. View only access for public websites for off-reservation data only. Contact original data source for a copy of the data set.

Use Constraints: The Great Lakes Indian Fish and Wildlife Commission, its member tribes, its employees and agents assume no responsibility or liability for anyone's use of these data. By using these data, you agree that you are entirely responsible for your use of these data and that you will hold harmless the Great Lakes Indian Fish and Wildlife Commission, its member tribes, its employees and its authorized agents from any and all consequences, including all damages, costs, expenses, and attorney's fees, resulting from improper or illegal use of these data.

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GLIFWC Data Process Notes:

Point Data:

1. GLIFWC obtained manoomin waterbody occurrence data from 1854 Treaty Authority (1854 TA) and MN Pollution Control Agency (MN PCA) as a shapefile of data points.

MN PCA*

MPCA_list_2017 – list of wild rice waters in Minnesota developed by the Minnesota Pollution Control Agency, 10/20/17. Data includes information gathered from many partners and information sources and state status (PWRW – proposed wild rice water for water quality standards, II – insufficient information to include for water quality standards)

1854 Treaty Authority*

invent_2019 (DJOU, GLIFWC, received email March 26, 2019) - 1854 Treaty Authority list of wild rice waters in 1854 Ceded Territory, compilation from all other sources and from field observations, March 2019. No updates in March 2020.

* "Metadata" information is from Darren Vogt. Contact information below.

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2. Shapefiles were converted to WGS 84 (EPSG: 4326). A spatial query selected all MN PCA records within the Treaty of 1854 (see citation below) and were deleted (473 records). All records near the Treaty of 1854 border were reviewed to ensure no duplication of records between 1854 TA data and MN PCA (3 records deleted from MN PCA). Point data were merged into one shapefile.

Great Lakes Indian Fish and Wildlife Commission. Ceded Territory Boundary (Treaties of 1836, 1837, 1842 and 1854) [Map]. Scale not given. Ceded Territory Boundaries. January 2015. <https://data.glifwc.org/ceded/>. (July 14, 2020)

Assigning Polygon Data from Original Point Data:

3. Points were reviewed when point data DOW ID or WBIC were not located in a polygon feature (MNDNR Hydrography Features All (Polygons), 20181227), had a different WBIC, duplicate WBICs within attribute data, data did not have a WBIC or data had no coordinates.
 1. Data with WBICs not within openwater polygon feature were reviewed for accuracy and the WBIC updated or removed where necessary.
 2. Duplicate WBICs records were reviewed. The accuracy of the point data is unknown. All points were retained to keep the original data locations. Two records with the same WBIC, one record was assigned to polygon data. This was assigned based on 1) data source (1854 TA chosen prior to MN PCA) and 2) MN PCA classifications (PWRW record chosen over II). If records had more than two data points per open water feature/WBIC, all point data was retained and an additional record was created for to link to the polygon data. See list below of WBICs where an additional feature was created with "see individual points for details" in the attribute data so it pointed out that individual point data had specific data for that area of the water feature.
 1. 69129100 (a-i) – St. Louis River (9 individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"
 2. 69129104 (a-f) – Upper St. Louis River (6 individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"
 3. 69000300 (a-e) – Birch Lake (individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"

4. 38064500 (a-d) – Basswood Lake (4 individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"
5. 69037800 – Vermilion Lake (4 individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"
6. 69061300 – Vermilion River (4 individual points); source: "GLIFWC for polygon representation from 1854 Treaty Authority point data, invent2019.shp"
7. Two points – point only feature was assigned “a” at end of WBIC
 1. 02002900 (a)
 2. 02010100 (a)
 3. 03017500 (a)
 4. 03038700 (a)
 5. 04034200 (a)
 6. 11002900 (a)
 7. 11077700 (a)
 8. 16003400 (a)
 9. 16003600 (a)
 10. 18010500 (a)
 11. 18040800 (a)
 12. 2751220 (a) – “a” assigned to 1854TA point data
 13. 2843800 (a) – “a” assigned to 1854TA point data
 14. 2844000 (a) – “a” assigned to 1854TA point data
 15. 29005400 (a)
 16. 33002800 (a)
 17. 38084200 – waiting on response from 1854 TA
 18. 48004700 (a)
 19. 69004600 – waiting on response from 1854 TA
 20. 69073500 – waiting on response from 1854 TA
 21. 71008500 (a)
 22. 71018700 (a)
3. Data points with no WBIC were reviewed and assigned a polygon WBIC when available or assigned a unique ID of “mn_manoomin” with a number if no WBIC existed. A total of 197 records were assigned new unique IDs.
4. Data that were lacking coordinates were reviewed and assigned a WBIC if enough information was available. Those records will be polygon records only and not point records. Twelve records did not have enough information to plot as points or assign a polygon feature. Records are listed below.
 1. MN PCA, MPCA_list_2017.shp
 1. Cannon River, Goodhue County
 1. Original ID: 2262
 2. Waterbody type: stream
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: 25r2
 2. Carlos Avery – Pool 16, Anoka County
 1. Original ID: 1669

2. Waterbody type: lake
3. State status: II
4. Reference: MDNR 2008
5. Alternate WBIC: W9001016
3. Carlos Avery – Pool 17, Anoka County
 1. Original ID: 2249
 2. Waterbody type: lake
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: W9001017
4. Carlos Avery – Pool 23, Anoka County
 1. Original ID: 2250
 2. Waterbody type: lake
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: W9001023
5. Carlos Avery – Pool 9 (2), Anoka County
 1. Original ID: 1668
 2. Waterbody type: lake
 3. State status: PWRW
 4. Reference: MDNR 2008
 5. Alternate WBIC: W9001011
6. Cloquet River, St. Louis County
 1. Original ID: 2272
 2. Waterbody type: stream
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: 69r5
7. Island River, Lake County
 1. Original ID: 1609
 2. Waterbody type: stream
 3. State status: II
 4. Reference: MPCA 2013
 5. Alternate WBIC: H-1-92-21-15
8. Otter Tail River, Otter Tail County
 1. Original ID: 2281
 2. Waterbody type: stream
 3. State status: PWRW
 4. Reference: MDNR APM
 5. Alternate WBIC: None.
9. Rice Creek, Redwood County
 1. Original ID: 1782
 2. Waterbody type: stream
 3. State status: II
 4. Reference: MDNR 2008

5. Alternate WBIC: 64r1
10. Sioux River, St. Louis County
 1. Original ID: 2273
 2. Waterbody type: stream
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: 69r9
11. Unnamed, Becker County
 1. Original ID: 1206
 2. Waterbody type: None.
 3. State status: II
 4. Reference: MPCA 2013
 5. Alternate WBIC: W0127601
12. Rice, LeSueur County
 1. Original ID: 1636
 2. Waterbody type: None.
 3. State status: II
 4. Reference: MDNR 2008
 5. Alternate WBIC: 40wtld1