

Pembina County GIS data

Projection

Projection – Geographic (Latitude and Longitude)

Datum - North American Datum of 1983 (NAD83, meters). (Exception: parcel geodatabase is State Plane 1983, feet)

GPSd data

Bridges_GPS

Culv_GPS

Roads_GPS

Sectcnr_GPS

GPSd data collected and processed by KL&J

GPS Bridge Points (collected by KLJ summer 2001)

GPS Culvert Points (36" W or >, or multiples of 3, collected by KLJ summer 2001)

GPS street centerline county roads, with "intersection drive-through" of cities. Remainder of city roads digitized, except St Thomas

GPS section corners, Qty 621 (collected by KLJ summer 2001)

Quarter-quarter files **Processed by KL&J**

Sections

Township

Quarter-quartered from GPS section corners (KL&J)

Township quarter-quarter sections were created from United States Geological Survey (USGS) 1:24,000 Public Land Survey System (PLSS) data, and snapped to GPS section\quarter-corners collected by KL&J.

Geo-database

<i>Datasets</i>	<i>Feature Classes</i>
Bridges/Utilities	Roads_GPS (GPS road centerlines, GPS KL&J, See attached metadata). <ul style="list-style-type: none"> • County, Highway, Interstate • Asphalt, Gravel, Dirt, Grass Mile_mrkr (Mile Markers) Bridges (GPS Bridge points, GPS KL&J) <ul style="list-style-type: none"> • Bridge status • Bridge size Culv_gps (GPS Culverts, GPS KL&J) Substations (Electrical substations, geocoded) Electric (Transmission lines 1:126,720 NDDOT tied to USGS 1:24,000) Pipeline (Oil, gas pipelines from National Pipeline Mapping layer Oct 2012) Rail_x (railroad crossings, Railroads, 1:126,720 NDDOT) Railroad (Railroads, 1:126,720 NDDOT)
Water	Benchmarks – SWC Dams - USGS LegalDrains (same as USGS Rivers, but with modifications started) Legal Drain Border Crossings (into Canada) Legal Drain Structures Rivers_usgs (USGS Rivers (1:100,000 USGS) RiversPembinaTongue (Pembina & Tongue River, 1:126,720 NDDOT) Redriver (Red River, 1:126,720 NDDOT) Wtrf_bnd (Waterfowl Production Area, 1:126,720 NDDOT tied to USGS 1:24,000) Wtr_area (Lakes, 1:126,720 NDDOT) Lakes_usgs (USGS Lakes, 1:100,000 USGS) Fema_in (Floodplain areas, 1:24,000 FEMA) Border Crossings Legal Drain assessment area (Drain Districts, created by SWC, then snapped to accuracy of parcels)
Dam Studies	Dam Breach Studies: Olson Dam, Senator Young, Renwick, NRCS, SWC Elevation crossings Breach areas

Parcel Data	<p>Annotation Sectcnr_gps (Section corners surveyed by KLJ summer 2001) Corp_bnd (Corporate City & District boundaries, 1:126,720 NDDOT tied to USGS 1:24,000) Unincorporated boundaries (digitized) Municipal points (Small incorporated cities that have not been digitized) PLS_lines Blocks Townships sections (Sections, 1:24,000 USGS) Quarter/quarters (Created from United States Geological Survey (USGS) 1:24,000 Public Land Survey System (PLSS) data, and snapped to GPS section/quarter-corners collected by KL&J). Parcels (digitized by Pembina County, snapping to GPS section corners and quarter/quarters). Lots Subdivisions (minor development at this time) Cnty_bnd (County Boundary, 1:126,720 NDDOT tied to USGS 1:24,000)</p>
Soils data	<p>Soil points (USGS UTM1983) Soils</p>
Political Boundaries	<p>Taxed Fire Districts School Districts Commissioner Districts Election Precincts Legislative Districts</p>
9-1-1	<p>Ambulance (Ambulance zones only) ESN (Emergency Service Zone Boundary for Ambulance, Fire, Law & QR/Amb) <ul style="list-style-type: none"> • Fire Departments • ESN – Medical Extrication (Extrication Zones of Fire Depts) Siren_repeater (Sirens & Repeater towers in County) Paging (Paging towers in County)</p>
Infrastructure	<p>airstrips (Airstrips in Pembina County) Celltower (Celltowers in County) Cityparks (city parks, geocoded) Generators (generators, geocoded) Grav_pit (Gravel Pit, 1:126,720 NDDOT) Icelandicstatepark Landmarks Landmobile_commerc Landmobile_private Mfrhouses (manufacture housing areas) Microwave (corporate/co-op broadcast towers in County) NVwaterstations (N Valley Water stations, geocoded) Restaurants (restaurants, geocoded) Schools (School locations in County) Shelters (emergency shelters, geocoded) Targets (Critical facilities, geocoded) Tv (TV broadcast towers in County)</p>
Misc	<p>Asr (activation service requests, radio licenses) Damages –FEMA Disaster damages to roads & bridges, by year Fema (FEMA flood zoning, entire county) Fm (fm radio licenses) Park_bnd (State Parks, 1:126,720 NDDOT tied to USGS 1:24,000) Park_bnd Secline_usgs Wild_bnd (Wildlife Management Area, 1:126,720 NDDOT tied to USGS 1:24,000)</p>
State	<p>Nd_psaps (public safety answering points) ND Dams</p>

	State_county disasters (number of Disaster Declarations since 1993) Tribal Lands
Orthos-topos	Orthos from 2005, 2006, 2009, 2010 UTM 1983 Topography, USGS, 1:24,000, 1:100,000, 1:250,000 Color hillshade map Black & white hillshade map Digital Elevation Model (elevation data)

Development of data

Road Data

The EMSRDS shapefile consists of Pembina County roads. These roads are derived from a variety of sources indicated in the *Source* field. Possible sources include GPS, DIGITIZED, PEMBINA, and DRAWN-IN. The “GPS” source includes KL&J and NDDOT GPS data. The “DIGITIZED” source includes roads digitized from USGS Digital Orthophoto Quarter Quadrangles (DOQQ’s). The “PEMBINA” source includes all roads from Main Street Planning, Minneapolis, MN. The “DRAWN-IN” source includes the roads digitized by Pembina County GIS.

Pembina County GIS provided all address range information used to develop the roads shapefile. The provided information was determined from a combination of existing road data (developed by Main Street Planning), city maps, and Pembina County. All address range information, and road data was reviewed/confirmed by Pembina County. Pembina County does not guarantee freedom from errors or inaccuracies and disclaims any legal responsibility or liability for interpretation made from this data.

ESN Data

The ESN (Emergency Service Number) Zone Boundaries were created from a combination of GPS road data, and Digitized Zone boundaries based from data provided by Pembina County. Attribute information was provided by Pembina County.

Shapefiles (Quarters)

All quarter-quarter section shapefiles are provided on a township basis. These shapefiles are named by township and range. Township quarter-quarter sections were created from United States Geological Survey (USGS) 1:24,000 Public Land Survey System (PLSS) data, and snapped to GPS section\quarter-corners collected by KL&J.

Contact

For all GIS data, contact: Liz Beck, 308 Court House Dr, #7, Cavalier, ND 58220
701-265-5176, lbeck@nd.gov

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