

Putney\Wetlands_WRC

Identification_Information:

Citation:

Citation_Information:

Originator: Kathy Urffer, Antioch University New England

Publication_Date: 20080917

Publication_Time: Unknown

Title:

Putney\wetlands_WRC

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Brattleboro, VT 05301

Publisher: Windham Regional Commission

Other_Citation_Details:

Putney\wetlands_WRC

Online_Linkage: <http://www.rpc.windham.vt.us/gis>

Description:

Abstract:

This file contains wetland polygons for the town of Putney, Vermont. It was developed by Windham Regional Commission by Kathy Urffer, a student at Antioch University New England, and is derived primarily from the Vermont Significant Wetlands Inventory (VSWI) and National Wetlands Inventory (NWI) data.

The data were developed as a primary component of Putney Wetlands Map, which is designed to illustrate wetlands in the Town of Putney currently on NWI and VSWI maps, as well as any locally identified wetlands as that information becomes available. The Putney Wetlands map does not show all wetlands in the town. It likely does not reflect vernal pools or many wetlands that are under 2-3 acres.

All of the wetlands shown on the Vermont Significant Wetlands Inventory (VSWI) maps are represented and coded as such. In many cases, the location of the boundaries of these wetlands are from the National Wetlands Inventory (NWI) maps, as we believe these maps to provide a more accurate boundary description. Any wetland shown on the NWI map but not on the VSWI map is also included. These wetlands may be "significant," but that determination has not been made. There is possibly one wetland that has been designated a Class 3 by Vt. ANR, meaning an actual determination has been made that the wetland is not "significant."

Any other wetlands not on the VSWI or NWI maps can be added to the map, but this has not happened yet. The Putney Conservation Commission encourages the addition of such locally identified wetlands to this data set.

The source of the wetlands boundary is noted in the data. In most cases, the source is either the NWI or VSWI data (as stated

above, where a wetland is represented in both data sets, the NWI data are generally used as they seem more accurate). In some instances, WRC has edited slightly these boundaries using large scale orthophotos. In a few instances, wetland boundaries are from field mapping, most often using GPS. It is hoped to eventually include boundaries from any official delineations performed by a wetland scientist. Boundaries of locally identified wetlands may be rough approximations in order to, as a first step, get them represented on the map.

Besides source, attributes include indications of whether the wetland is a Vermont significant wetland, manmade, or a beaver wetland.

See the completeness report for details on wetlands that are included and not included in this data set. See the horizontal accuracy report for details on horizontal accuracy. See the process step report for details on how this data set was created.

Most all wetlands (including most all wetlands on this map) are under the jurisdiction of the US Army Corps of Engineers, and are regulated under Section 404 of the federal Clean Water Act. There are many wetlands that are not shown on the Putney wetlands map, and these likely are under Federal jurisdiction as well.

The State of Vermont has developed a classification system for wetland regulation. Class One and Class Two wetlands are considered significant. Class Three wetlands are not regulated under State wetland rules, but in most cases are under the jurisdiction of the US Army Corps of Engineers, and may be protected by other State or Federal regulations. All of the "significant" wetlands in the Town of Putney are Class Two wetlands. These require a 50-foot buffer. In addition, Class Two wetlands include not only areas mapped on the VSWI map as Class Two but also those wetlands that are contiguous to the mapped wetland. So, although a wetland may not be represented as "significant" on the attached map, it may be regulated by the State if it is contiguous to a Class Two wetland. Contiguity is determined in the field by ANR Wetlands Program staff or upon review by the Natural Resources Board. Anyone may request a visit by the District Wetlands Ecologist to determine the classification of wetlands on one's property.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20080000

Time of Day: unknown

Currentness_Reference:

publication date

publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Irregular

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -72.612707

East_Bounding_Coordinate: -72.452270

North_Bounding_Coordinate: 43.026118

South_Bounding_Coordinate: 42.961758

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: wetlands

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Putney, Vermont

Stratum:

Stratum_Keyword_Thesaurus: None

Temporal:

Temporal_Keyword_Thesaurus: None

Access_Constraints: WRC and the State of Vermont make no representations of any kind, including but not limited to the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied with respect to the data.

Use_Constraints:

This data layer is intended only for planning and informational use, to alert the public to the presence of regulated wetlands.

This data layer is not designed to be used as sole criteria in any decision making process. Questions about wetland location and use should be referred to the ANR DEC Wetlands section, 802-244-6951.

This data layer is intended only for planning and informational use, to alert the public to the presence of regulated wetlands. This data layer is not designed to be used as sole criteria in any decision making process. Questions about wetland location and use should be referred to the ANR DEC Wetlands section, 802-244-6951.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Windham Regional Commission

Contact_Person: Jeff Nugent

Contact_Position: GIS Planner

Contact_Address:

Address_Type: mailing and physical address

Address:

139 Main Street, Suite 505

139 Main Street, Suite 505

City: Brattleboro

State_or_Province: VT

Postal_Code: 05301

Country: USA

Contact_Voice_Telephone: 802-257-4547

Contact_TDD/TTY_Telephone: None

Contact_Facsimile_Telephone: 802-254-6383

Contact_Electronic_Mail_Address: wrc@sover.net

Data_Set_Credit:

Windham Regional Commission, Brattleboro, Vt.;

Windham Regional Commission, Brattleboro, Vt.;

Security_Information:

Security_Classification_System: N/A

Security_Classification: Unclassified

Security_Handling_Description: No Security Considerations

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI

ArcCatalog 9.2.4.1420

Cross_Reference:

Citation_Information:

Originator: Kathy Urffer, Antioch University New England

Publication_Date: 20080917

Publication_Time: Unknown

Title:

Wetlands in the Town of Putney, Vt

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Brattleboro, Vt

Publisher: Windham Regional Commission

[Back to Top](#)

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

Polygon attributes were verified on-screen, against orthophotos.

Polygon attributes were verified on-screen, against orthophotos.

Logical_Consistency_Report:

Wetlands are represented as polygons.

Wetlands are represented as polygons.

Completeness_Report:

In general, if a wetland is shown on the NWI or VSWI map, it is very likely that there is a wetland at that location on the ground. Review of the NWI maps by the Wetlands Office of the VT Agency of Natural Resources has shown that only a very small percentage (estimated at 1-2%) of the wetlands on the NWI maps are not found on the ground; many of these have been filled in since the 1977 inventory.

Many wetlands are not depicted on the NWI or VSWI maps, and therefore not depicted in this data set and some non-wetland areas may appear as wetlands. It is also estimated that there are between 25% and 50% more wetlands than appear on the NWI maps, most of these being below 3 acres in size (often closed-canopy wetlands or open water).

The parent data layers used were NWI and VSWI maps, which do not show all wetlands, but show most photointerpretable wetlands given considerations of map/photo scale and wetland delineation practices. For the NWI maps a target mapping unit (tmu) is an estimate of the size class of the smallest group of wetlands that NWI attempts to map consistently; it is not the smallest wetland mapped. Some wetland types are conspicuous and readily mapped (e.g., marshes and ponds) and smaller ones may be missed. Drier wetlands and forested wetlands (especially evergreen) are more difficult to photointerprete and larger ones may be missed. In general, if a wetland is shown on the NWI or VSWI map, it is very likely that there is a wetland at that location on the ground. However, many wetlands are not depicted on the NWI or VSWI maps, and therefore not depicted on the Putney wetlands map. One estimate puts the percentage of wetlands that are mapped at only 50 percent.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The accuracy of wetland boundaries varies in this data set. In most cases, the source is NWI data, which WRC believes to have more accurate locations than VSWI data. In comparing NWI data to wetlands clearly visible on RF 5000 and RF 12000-scale orthophotos, boundary discrepancies of 10 to 20 meters or more are not uncommon. In some instances, WRC has edited slightly these boundaries using the orthophotos to improve accuracy. Boundaries of wetlands not clearly identifiable on orthophotos are expected to be within several hundred meters of their true locations. In a few instances, wetland boundaries are from field mapping, most often using GPS. This field mapping was not done by a wetland scientist, but boundary accuracy is expected to be 5 to 10 meters.

The accuracy of wetland boundaries varies in this data set. In most cases, the source is NWI data, which WRC believes to have more accurate locations than VSWI data. In comparing NWI data to wetlands clearly visible on RF 5000 and RF 12000-scale orthophotos, boundary discrepancies of 10 to 20 meters or more are not uncommon. In some instances, WRC has edited slightly these boundaries using the orthophotos to improve accuracy. Boundaries of wetlands not clearly identifiable on orthophotos are expected to be within several hundred meters of their true locations. In a few instances, wetland boundaries are from field mapping, most often using GPS. This field mapping was not done by a wetland scientist, but boundary accuracy is expected to be 5 to 10 meters.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

N/A

N/A

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Fish & Wildlife Service, National

Publication_Date: 1983

Publication_Time: Unknown

Title:

WaterWetlands_NWI

Edition: 2003

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: National Wetlands Inventory data for Vermont

Issue_Identification: 2003

Publication_Information:

Publication_Place: St.Petersburg, Florida

Publisher: U.S. Fish & Wildlife Service

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2003

Time_of_Day: unknown

Source_Currentness_Reference:

ground condition

Source_Citation_Abbreviation:

NWI

Source_Information:

Source_Citation:

Citation_Information:

Originator: John B. Dudley, P. E.

Publication_Date: 19961019

Publication_Time: unknown

Title:

WaterWetlands_VSWI

Edition: 1.0

Geospatial_Data_Presentation_Form: map

Series_Information:

Series_Name: Vermont Significant Wetlands Inventory

Issue_Identification: 1.0

Publication_Information:

Publication_Place: Waterbury, Vt. 05671-0301

Publisher: John B. Dudley, P. E.

Other_Citation_Details:

Tile Structure - STATE

Online_Linkage: <<http://www.nwi.fws.gov/>>

Online_Linkage: <<http://www.anr.state.vt.us/>>

Process_Step:

Process_Description:

- 1) NWI data were used as the base layer to edit
- 2) VSWI data were used to identify polygons in the NWI data set that were considered to be significant wetlands in the state. If no wetland polygon existed on the NWI, the polygon was copied from the VSWI to ensure that all regulated (or significant) wetlands were represented.
- 3) the following attribute fields were added: VT_Sig_Wet; Bound_Srce; manmade; beaver; SRC_notes; WRC_notes and filled in information applicable to each polygon
- 4) moved polygons that needed to be spatially corrected when compared to 2000 RF 5000 VT orthophotos and 2003 RF 12000 NAIP imagery. Spatial location was corroborated with USGS topo maps
- 5) imported five polygons (coded as 'fieldapprox') that were created by Windham Regional Commission staff using GPS

This data is not 100% spatially accurate, but is representative of wetlands that were easily identified from orthophotos in Putney, VT and are believed to be the best available digital version of these data.

Process_Date: 20080917

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Jeff Nugent

Contact_Organization: Windham Regional Commission

Contact_Position: GIS Planner

Contact_Address:

Address_Type: mailing and physical address

Address:

139 Main St., Suite 505

139 Main St., Suite 505

City: Brattleboro

State_or_Province: VT

Postal_Code: 05301

Country: USA

Contact_Voice_Telephone: 802-257-4547
Contact_Electronic_Mail_Address: jnugent@sover.net
Cloud_Cover: 0

[Back to Top](#)

Spatial_Data_Organization_Information:
Indirect_Spatial_Reference_Method:
vector
Direct_Spatial_Reference_Method: Vector
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 165

[Back to Top](#)

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: State Plane Coordinate System
State_Plane_Coordinate_System:
SPCS_Zone_Identifier: 4400
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999964
Longitude_of_Central_Meridian: -72.500000
Latitude_of_Projection_Origin: 42.500000
False_Easting: 500000.000000
False_Northing: 0.000000
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.000000
Ordinate_Resolution: 0.000000
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodetic Reference System 80
Semi-major_Axis: 6378137.000000
Denominator_of_Flattening_Ratio: 298.257222

[Back to Top](#)

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: wetlands_WRC

Entity_Type_Definition:

polygon feature attribute table

Entity_Type_Definition_Source:

software defaults plus user-defined items

Attribute:

Attribute_Label: ATTRIBUTE

Attribute_Definition:

Classification of the wetland: Generalized Lookup Table -
<http://www.vcgi.org/pub/dataware/gisdata/layers_vcgi/WaterWetlands_NWI/nwi_attribute.exe>

Classification of the wetland: Generalized Lookup Table -

<http://www.vcgi.org/pub/dataware/gisdata/layers_vcgi/WaterWetlands_NWI/nwi_attribute.exe>

Attribute_Definition_Source:

NWI data

NWI data

Attribute:

Attribute_Label: Bound_Srce

Attribute_Definition:

source of wetland boundary

source of wetland boundary

Attribute_Definition_Source:

Windham Regional Commission

Windham Regional Commission

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: NWI

Enumerated_Domain_Value_Definition:

source of boundary is National Wetlands Inventory data

source of boundary is National Wetlands Inventory data

Enumerated_Domain:

Enumerated_Domain_Value: VSWI

Enumerated_Domain_Value_Definition:

source of boundary is Vermont Significant Wetlands Inventory data

source of boundary is Vermont Significant Wetlands Inventory data

Enumerated_Domain:

Enumerated_Domain_Value: fieldapprox

Enumerated_Domain_Value_Definition:

source of boundary has been mapped approximately in field (not part of a formal delineation by a wetland scientist)

source of boundary has been mapped approximately in field (not part of a formal delineation by a wetland scientist)

Attribute:

Attribute_Label: manmade

Attribute_Definition:

Y/N/maybe - is wetland likely manmade (e.g. pond) or influenced by human activity

Y/N/maybe - is wetland likely manmade (e.g. pond) or influenced by human activity

Attribute_Definition_Source:

Windham Regional Commission interpretation of air photos

Windham Regional Commission interpretation of air photos

Attribute:

Attribute_Label: beaver

Attribute_Definition:

Y/N - wetland influenced by beaver activity

Y/N - wetland influenced by beaver activity

Attribute_Definition_Source:

NWI data, Windham Regional Commission ortho interpretation

NWI data, Windham Regional Commission ortho interpretation

Attribute:

Attribute_Label: VT_Sig_Wet

Attribute_Definition:

Y=wetland present on VSWI map; U=wetland not present on VSWI map; N= wetland indicated as Class 3 wetland on VSWI map

Y=wetland present on VSWI map; U=wetland not present on VSWI map; N= wetland indicated as Class 3 wetland on VSWI map

Attribute_Definition_Source:

Windham Regional Commission

Windham Regional Commission

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Y

Enumerated_Domain_Value_Definition:

Yes, wetland present on VSWI map and considered "significant"

Yes, wetland present on VSWI map and considered "significant"

Enumerated_Domain:

Enumerated_Domain_Value: U

Enumerated_Domain_Value_Definition:

Unknown - not present on VSWI map, but official determination of significance has not been made

Unknown - not present on VSWI map, but official determination of significance has not been made

Enumerated_Domain:

Enumerated_Domain_Value: N

Enumerated_Domain_Value_Definition:

No, not a significant wetland, indicated as Class 3 wetland on VSWI map

No, not a significant wetland, indicated as Class 3 wetland on VSWI map

Attribute:

Attribute_Label: SRC_notes

Attribute_Definition:

explanation of edits

explanation of edits

Attribute_Definition_Source:

Windham Regional Commission

Windham Regional Commission

Attribute:

Attribute_Label: WRC_notes

Attribute_Definition:

informational notes for interpretation

informational notes for interpretation

Attribute_Definition_Source:

Windham Regional Commission

Windham Regional Commission

Overview_Description:

Entity_and_Attribute_Overview:

The attribute table contains detailed information about characteristics of wetlands in Putney including whether the polygon boundary came from National Wetlands Inventory Maps, Vermont Significant Wetlands Inventory maps, or other sources. Whether the wetland is manmade or influenced by beavers is also indicated when that information was known or able to be inferred from orthophotos. If the wetland is considered a significant wetland has been indicated and Cowardin wetland classifications have been included for wetlands from the NWI maps that provided that interpretive information. In most cases the wetland boundaries are approximations based on orthophotos. In a few cases, wetlands boundaries have come from GPS field mapping. As additional information becomes available, it is expected that this data layer will be updated and enhanced.

The attribute table contains detailed information about characteristics of wetlands in Putney including whether the polygon boundary came from National Wetlands Inventory Maps, Vermont Significant Wetlands Inventory maps, or other sources. Whether the wetland is manmade or influenced by beavers is also indicated when that information was known or able to be inferred from orthophotos. If the wetland is considered a significant wetland has been indicated and Cowardin wetland classifications have been included for wetlands from the NWI maps that provided that interpretive information. In most cases the wetland boundaries are approximations based on orthophotos. In a few cases, wetlands boundaries have come from GPS field mapping. As

additional information becomes available, it is expected that this data layer will be updated and enhanced.

Entity_and_Attribute_Detail_Citation:

see 'attribute domain values' section

see 'attribute domain values' section

[Back to Top](#)

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Windham Regional Commission

Contact_Person: Jeff Nugent

Contact_Position: GIS Planner

Contact_Address:

Address_Type: Mailing and Physical Address

Address:

139 Main Street, Suite 505

139 Main Street, Suite 505

City: Brattleboro

State_or_Province: VT

Postal_Code: 05301

Country: USA

Contact_Voice_Telephone: 802-257-4547

Contact_TDD/TTY_Telephone: None

Contact_Facsimile_Telephone: 802-254-6383

Contact_Electronic_Mail_Address: wrc@sover.net

Resource_Description: Putney\wetlands_WRC

Distribution_Liability:

WRC, VCGI, and the State of Vermont make no representations of any kind, including but not limited to the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied with respect to the data.

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Standard_Order_Process:

Non-digital_Form:

N/A

Fees: none

Ordering_Instructions:

Call/email WRC.

Call/email WRC.

Turnaround: about 5 days

Custom_Order_Process:

Call/email WRC.

Call/email WRC.

Technical_Prerequisites:

ArcGIS, ArcView, or ArcExplorer software.

Available_Time_Period:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20060000

Time of Day: 00000000

[Back to Top](#)

Metadata_Reference_Information:

Metadata_Date: 20080917

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Windham Regional Commission

Contact_Person: Jeff Nugent

Contact_Position: GIS Planner

Contact_Address:

Address_Type: Mailing and Physical Address

Address:

139 Main Street, Suite 505

139 Main Street, Suite 505

City: Brattleboro

State_or_Province: VT

Postal_Code: 05301

Country: USA

Contact_Voice_Telephone: 802-257-4547

Contact_TDD/TTY_Telephone: None

Contact_Facsimile_Telephone: 802-254-6383

Contact_Electronic_Mail_Address: wrc@sover.net

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial

Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Access_Constraints: None

Metadata_Use_Constraints:

None

Metadata_Security_Information:

Metadata_Security_Classification_System: N/A

Metadata_Security_Classification: Unclassified

Metadata_Security_Handling_Description:

No security considerations

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile

[Back to Top](#)