

CHAPTER 22

MANAGEMENT ACTIVITIES: REGULATED WATERS

The regulated waters data set contains information on the various stretches of water with special regulations. For instance, it includes waters closed to angling, rivers which are scheduled fly fishing only, and Crown reserve waters. New Brunswick is unique in its variety of regulations for allocating and protecting fishery and aquatic resources. The following describes the various types of regulated waters included in this data set.

- < **Scheduled (Fly Fishing Only) Waters** - Streams or stretches thereof which can be angled by artificial flies only.
- < **Designated (Angling) Waters** - Streams or stretches thereof which require non-resident anglers to be accompanied by a fishing guide.
- < **Closed Waters** - Closed to all angling.
- < **Crown Reserves** - Stretches of quality angling waters which are allocated to the resident public each year through a lottery system. There are three types of reserves - daily (one day of fishing), regular (2 or 3 days of fishing) and hook and release only.
- < **Special Reserves** - Refers to a stretch of water on the Restigouche River, Larry's Gulch, which is operated by the Department of Natural Resources and Energy.
- < **Angling Leases** - Stretches of quality angling waters which are allocated on a 10-year basis through public auction.

The above have been incorporated within GIS. In the future, this data set may also contain the following:

Designated Drinking Supplies - Streams or lakes which supply drinking water and as such, have restricted use, especially within the drainage area surrounding the body of water

Outstanding Waters - Lakes and streams publicly nominated and managed as outstanding waters. This is new initiative under *The Clean Water Act* to address protection and management of New Brunswick's surface waters.

DATA SOURCES

The primary source of regulated waters data is the New Brunswick Department of Natural Resources & Energy as described in the *Fish and Wildlife Act*. Fisheries and Oceans Canada determine gear restrictions (Scheduled Waters) under the *Fisheries Act* found in the Maritime Provinces Fishery Regulations pamphlet.

POSITIONAL ACCURACY

The start and end points of regulated stream sections are determined by textual descriptions. The positional accuracy of the hydrographic spatial data is $\pm 1.5\text{m}$ to $\pm 2.5\text{m}$. Please refer to NBGIC's **Land and Water Standards Manual** for further details.

DATA FILES

Tabular Data

There are many tables within regulated waters. One provides an overall view of the various types of regulated waters. The remaining tables provide more detailed information on the locations and particulars of the regulated water. Since an individual lease or reserve may encompass more than one stream, separate tables maintain their location reference for GIS.

- , **Scheduled Waters** - Provides a GIS reference to waters which are fly fishing only
- , **Designated (Angling) Waters** - Provides a GIS reference to waters for which non-resident anglers require fishing guides
- , **Closed Waters** - Provides a GIS reference to waters which are closed to all angling
- , **Crown Reserve Locations** - Provides GIS reference to the locations of Crown reserves
- , **Crown Reserves** - Maintains details of each Crown reserve (regular, daily, and hook and release)
- , **Angling Lease Locations** - Provides GIS reference to the locations of angling leases
- , **Angling Leases** - Maintains details of each angling lease

Spatial Data

Regulated waters are mapped through the route system files and dynamic segmentation.

Note

Please refer to the following chapter for angling catch and effort information associated with Crown reserves and leases:

***Recreational Fishery Catch & Effort:
Mail Surveys***

**TABULAR
DATA
FILES**

SCHEDULED WATERS

The *Scheduled Waters* table (reg-schd.dbf) is used primarily by the GIS to plot the locations of the various streams or stretches thereof regulated for fly fishing only.

Field of Information	Description	Dbase Field Name	Field Type (Length . Decimals)	Comments
Water Body ID	Stream identifier which is scheduled fly fishing only	Water_ID	Numeric (8)	
Water Body Name	Name of stream	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the scheduled stream	Drainage_Cd	Character (17)	Appendix A
Location Description	Description of the start and end point of the scheduled water	Sect_Des	Character (150)	
Start Date	Date within angling season when fly fishing only is in effect; format MM-DD	Start_Date	Character (10)	
End Date	Date within angling season when fly fishing only is no longer in effect.; format MM-DD. If the regulation is in effect for the remainder of the season, this field is blank	End_Date	Character (5)	
Second Start Date	Date within angling season when fly fishing only comes back in effect for second time in same season (i.e. Start Date and End Date have both passed); format MM-DD	After_Date	Character (5)	
Regulation Start Year	Year regulation started (in effect since 1999)	Reg_Start	Character (5)	
Regulation End Year	Year regulation ended (in effect since 1999)	Reg_End	Character (5)	
From Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the scheduled section begins	From_Meas	Numeric (12.1)	
To Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the scheduled section ends	To_Meas	Numeric (12.1)	

DESIGNATED (ANGLING) WATERS

The *Designated (Angling) Waters* table (reg-desg.dbf) is used primarily by the GIS to plot the locations of the various streams or stretches thereof for which non-resident anglers require fishing guides.

Field of Information	Description	Dbase Field Name	Field Type (Length . Decimals)	Comments
Water Body ID	Identifier of stream which is designated for angling	Water_ID	Numeric (8)	
Water Body Name	Name of stream which is designated for angling	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the designated stream	Drainge_Cd	Character (17)	Appendix A
Location Description	Description of the start and end point of the designated water	Sect_Des	Character (160)	
Start Date	Date within angling season when designated regulation is in effect; format MM-DD	Start_Date	Character (10)	
From Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the designated section begins	From_Meas	Numeric (12.1)	
To Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the designated section ends	To_Meas	Numeric (12.1)	

CLOSED WATERS

The *Closed Waters* table (reg-clsd.dbf) is used primarily by the GIS to plot the locations of the various streams or stretches thereof which are closed to all angling.

Field of Information	Description	Dbase Field Name	Field Type (Length . Decimals)	Comments
Water Body ID	Identifier of lake or stream closed to all angling	Water_ID	Numeric (8)	
Water Body Name	Name of lake or stream closed to all angling	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the closed stream	Drainage_Cd	Character (17)	Appendix A
Location Description	Description of the start and end point of the closed water	Sect_Des	Character (160)	
Start Date	Date within angling season when the closure is in effect; format MM-DD	Start_Date	Character (10)	
End Date	Date within angling season when the closure is no longer in effect.; format MM-DD. If the regulation is in effect for the remainder of the season, this field is blank	End_Date	Character (5)	
Second Start Date	Date within angling season when the closure comes back in effect for second time in same season (i.e. Start Date and End Date have both passed); format MM-DD	After_Date	Character (5)	
Regulation Start Year	Year regulation started (in effect since 1999)	Reg_Start	Character (5)	
Regulation End Year	Year regulation ended (in effect since 1999)	Reg_End	Character (5)	
From Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the closed section begins	From_Meas	Numeric (12.1)	
To Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the closed section ends	To_Meas	Numeric (12.1)	
Tributary Indicator	Indicates whether or not tributaries of the water or stretch of water are also closed.	Trib_Ind	Character (1)	Y = Yes Blank = No

CROWN RESERVE SITES

The *Crown Reserve Sites* table (crsvsite.dbf) is used primarily by the GIS to plot the locations of Crown reserves. In some cases, a Crown reserve may cover more than one stream.

Field of Information	Description	Dbase Field Name	Field Type (Length . Decimals)	Comments
Crown Reserve Site ID	Unique identifier for stretch of Crown reserve. This field is required as a single Crown reserve may be on multiple streams. Assigned by the Data Warehouse	RsrvSite_ID	Numeric (4)	
Crown Reserve ID	Unique identifier for each Crown reserve. Assigned by the Data Warehouse	Resrv_ID	Numeric (4)	Code Table 25
Water Body ID	Stream or lake identifier which has a Crown reserve	Water_ID	Numeric (8)	
Water Body Name	Name of the lake or stream	Water_Name	Character (40)	
Crown Reserve Name	Name of the Crown reserve	Resrv_Name	Character (40)	
Crown Reserve Type	Type of Crown reserve	Resrv_Type	Character (20)	
From Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the Crown reserve section begins	From_Meas	Numeric (12.1)	
To Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the Crown reserve section ends	To_Meas	Numeric (12.1)	
Drainage Codes	Drainage system codes indicating the drainage unit of the lake or stream	Drainge_Cd	Character (17)	Appendix A
Crown Reserve Length	Length of Crown reserve in meters	Resrv_Len	Numeric (8.1)	
Active Indicator	Indicates whether or not the Crown reserve is still active	Active_Ind	Character (1)	

CROWN RESERVES

The *Crown Reserve* table (c-reserv.dbf) maintains a historical list of New Brunswick's Crown reserves.

Field of Information	Description	Dbase Field Name	Field Type (Length, Decimals)	Comments
Crown Reserve ID	Unique identifier for each Crown reserve assigned by the Data Warehouse	Resrv_ID	Numeric (4)	Code Table 25
Water Body ID	Stream or lake identifier which has a Crown reserve	Water_ID	Numeric (8)	
Water Body Name	Name of the lake or stream	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the lake or stream	Drainge_Cd	Character (17)	Appendix A
Crown Reserve Name	Name of the Crown reserve	Resrv_Name	Character (40)	
Crown Reserve Type	Type of Crown reserve	Resrv_Type	Character (20)	
Crown Reserve Length	Length of stream available for fishing	Resrv_Len	Numeric (8.1)	
No. Angling Pools	Number of pools available for angling	No_Pools	Numeric (3)	
No. Days per Trip	Number of calendar days available to each party	No_Days	Numeric (3)	
Maximum Rods per Day	Maximum number of individuals that can be fishing at one time	Max_Rods	Numeric (3)	
Accommodations Indicator	Indicates whether or not accommodations are on site	Accom_Ind	Character (1)	Y = Yes N = No
Year Started	Year the stretch of water was first regulated as a Crown reserve	Start_Date	Character (10)	
Year Ended	Year the stretch of water ceased to be regulated as a Crown reserve	End_Date	Character (10)	
Active Indicator	Indicates whether or not the Crown reserve is still active	Active_Ind	Character (1)	Blank = Yes N = No

ANGLING LEASE SITES

The *Angling Lease Sites* table (alessite.dbf) is used primarily by the GIS to plot the locations of the angling leases. In some cases, an angling lease may cover more than one stream.

Field of Information	Description	Dbase Field Name	Field Type (Length . Decimals)	Comments
Angling Lease Site ID	Unique identifier for stretch of angling lease. This field is required as a single lease may be on multiple streams. Assigned by the Data Warehouse	LeaSite_ID	Numeric (4)	
Angling Lease ID	Unique identifier for each angling lease	Lease_ID	Numeric (4)	
Water Body ID	Stream or lake identifier which has an angling lease	Water_ID	Numeric (8)	
Water Body Name	Name of the lake or stream	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the lake or stream	Drainage_Cd	Character (17)	Appendix A
Lease Name	Name of the angling lease	Lease_Name	Character (45)	
From Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the leased section begins	From_Meas	Numeric (12.1)	
To Measurement	FOR GIS PURPOSES ONLY. Number of meters upstream from the confluence where the leased section ends	To_Meas	Numeric (12.1)	
Lease Length	Length of angling lease in meters	Lease_Len	Numeric (8.1)	

ANGLING LEASES

The *Angling Leases* table (ang-leas.dbf) maintains information on the Province's nineteen angling leases.

Field of Information	Description	Dbase Field Name	Field Type (Length, Decimals)	Comments
Angling Lease ID	Unique identifier for each angling lease	Lease_ID	Numeric (4)	
Lease Name	Name of the angling lease	Lease_Name	Character (45)	
Water Body ID	Stream or lake identifier which has an angling lease	Water_ID	Numeric (8)	
Water Body Name	Name of stream or lake	Water_Name	Character (40)	
Drainage Codes	Drainage system codes indicating the drainage unit of the lake or stream with an angling lease	Drainage_Cd	Character (17)	Appendix A
Lease Description	Description of the location of the lease	Lease_Des	Character (254)	
Lease Length	Length of angling lease in metres	Lease_Len	Numeric (8.1)	
Rods per Day	Maximum rods per day	Rods_Day	Numeric (3)	
Rods per Year	Maximum rods per year	Rods_Year	Character (24)	
Expiry Date	Date lease expires	Expiry_Yr	Character (4)	
Lodge Name	Name of lodge on lease	Lodge_Name	Character (20)	
Lessee	Holder of the angling lease	Lessee	Character (45)	
Lessee Address 1	Street address of lessee	Less_Add1	Character (30)	
Lessee Address 2	Second line of address of lessee	Less_Add2	Character (20)	
Lessee Address - City	City portion of lessee address	Less_City	Character (20)	
Lessee Address - Prov/State	State or province of lessee address	Less_Prov	Character (2)	
Lessee Address - Postal	Postal or zip code of lessee address	Less_Post	Character (7)	
Primary Contact - Name	Individual who is the primary contact for the lease	Contact1	Character (20)	
Primary Contact - Title	Primary contact's title	Cont1_Titl	Character (20)	
Primary Contact - Department	Primary contact's department	Cont1_Dept	Character (25)	

Field of Information	Description	Dbase Field Name	Field Type (Length, Decimals)	Comments
Primary Contact - Phone	Primary contact's phone number	Cont1_Phon	Character (14)	
Primary Contact - Fax	Primary contact's fax number	Cont1_Fax	Character (14)	
Secondary Contact - Name	Individual who is the secondary contact for the lease	Contact2	Character (24)	
Secondary Contact - Title	Secondary contact's title	Cont2_Titl	Character (20)	
Secondary Contact - Department	Secondary contact's department	Cont2_Dept	Character (20)	
Secondary Contact - Phone	Secondary contact's phone number	Cont2_Phon	Character (14)	
Secondary Contact - Fax	Secondary contact's fax number	Cont2_Fax	Character (14)	
Lodge Manager	Individual who manages the lodge	Manager	Character (21)	
Lodge Manager - Phone	Lodge manager's phone number	Man_Phone	Character (14)	