

**Metadata for “current relational database for viewing A, B, C cutoff values”
available for download from the WWAT**

May 26, 2011

The Water Withdrawal Assessment Tool (WWAT) is a free, internet-based screening tool. Land owners can interactively enter the location and specification of a proposed new or increased large quantity withdrawal (LQW) from surface or groundwater sources and the Tool will evaluate the proposed withdrawal in the context of the Water Withdrawal Assessment Process as established in Part 327, P. A. 451 of 1994, as amended. Since the WWAT is used asynchronously by any number of clients, the database it refers to must be dynamically updated, i.e., the moment a client presses the Register button following a successful assessment (i.e., proceed), the registered depletion is removed from the watershed database.

The attribute (.dbf) file that is available within the *Watershed* shapefile set that can be downloaded from the home page of the WWAT is **STATIC** and only changes when a new version is required to correct small geospatial problems that are discovered. Since the initial release of the WWAT for testing and evaluation on October 1, 2008, there have only been nine versions of the *Watershed* shapefile used for groundwater withdrawal evaluations. A slightly different *Watershed* shapefile set is used for surface water withdrawal evaluations; version 8 is the most recent for this file.

The “current relational database for viewing A, B, C cutoff values” that can be downloaded from the homepage of the WWAT, provides users access to the **dynamically updated** database. As such, the name of the file that you download will include the date and time. If you downloaded this file three times in a row, each file would have a different name (same date, but different times). As shown in this example, the file name format is *LinkFile_5-26-2011_13-1-24.dbf*. The date of the file is obvious (5-26-2011, in this example). The time the file was dynamically extracted is shown in 24-hour format (13 hours, 1 minute, 24 seconds, in this example).

This file can be joined to the *Watershed* shapefile in GIS software using **ADJ_SEGMNT** as the key field.

<u>Field name</u>	<u>Contents description</u>
ADJ_SEGMNT	Valley segment (watershed) ID number assigned by MDNR
A_LINE_ORG	[(Index flow converted to GPM /2.0) * a-line cut off (%)] from Groundwater Conservation Advisory Council (2007) [NOTE : this value is static , representing the starting point, <u>including the 50% “safety factor,”</u> as specified by Part 327, P.A. 451 of 1994, as amended]
B_LINE_ORG	[(Index flow converted to GPM /2.0) * b-line cut off (%)] from Groundwater Conservation Advisory Council (2007) [NOTE : this value is static , representing the starting point, <u>including the 50% “safety factor,”</u> as specified by Part 327, P.A. 451 of 1994, as amended]

C_LINE_ORG	[(Index flow converted to GPM/2.0) * c-line cut off (%)] from Groundwater Conservation Advisory Council (2007) [NOTE: this value is static , representing the starting point, including the 50% “safety factor,” as specified by Part 327, P.A. 451 of 1994, as amended]
A_LINE_ADJ	Current available water** (GPM) in the watershed in the A-zone (as of the date/time of the file)
B_LINE_ADJ	Current available water** (GPM) in the watershed in the B-zone (as of the date/time of the file)
C_LINE_ADJ	Current available water** (GPM) in the watershed in the C-zone (as of the date/time of the file)
SSR	Site Specific Review (Y / N) – this field has not yet been implemented

** In cases where (A_LINE_ORG) > (A_LINE_ADJ), or (B_LINE_ORG) > (B_LINE_ADJ) or (C_LINE_ORG) > (C_LINE_ADJ), the A_LINE_ADJ, B_LINE_ADJ or C_LINE_ADJ values (GPM) could be either the total Index Flow GPM (*i.e.*, no 50% safety factor) or the [Index Flow / 2.0] (*i.e.*, with the 50% safety factor). Some, but not all, of these watersheds have had Site Specific Reviews completed which removed the 50% safety factor.

In cases where (A_LINE_ORG) < (A_LINE_ADJ), or (B_LINE_ORG) < (B_LINE_ADJ) or (C_LINE_ORG) < (C_LINE_ADJ), the A_LINE_ADJ, B_LINE_ADJ or C_LINE_ADJ (GPM) fields report **total** Index Flow GPM (*i.e.*, no 50% safety factor). All of these watersheds have had Site Specific Reviews completed within them, which removed the 50% safety factor.