Ausable Bayfield Maitland Valley
Source Protection Region

Final Report

Characterization of the Hydrology of Ungauged Shoreline Tributaries to Southeast Lake Huron: Implications for Water Quality in the Nearshore

March 31, 2008

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1 Project Summary

1.1 Introduction

Of late, residents along the Lake Huron shoreline (see Figure 1.1) have become increasingly concerned over the perceived decline in water quality along the shoreline. Closed beaches and algae growth have prompted concerns that nutrients and fecal bacteria, from a variety of non-point sources associated with shoreline watersheds, have affected nearshore water quality. This project was initiated to investigate the role of shoreline watercourses in the delivery of pollutants to the nearshore.

Fig 1.1: Lake Huron, with respect to Southern Ontario.[1]

The purpose of the project is to develop a better understanding of the hydrologic features of watersheds that drain into the southeast shore of Lake Huron. This study will provide the temporal and spatial basis for predicting the magnitude of water inputs to the shoreline from these small watersheds.

1.2 Background

There are many ungauged watersheds along the Lake Huron shoreline where discharge characteristics are unknown. The watersheds are relatively small (<0.1 to 28 sq. km) and generate low streamflows, but may have discharges that have a disproportional high impact on nearshore water quality along the

[1] Google Maps, 2007

shoreline. The discharge, while unknown, is hypothesized to be as variable due to peak streamflows expected during snowmelt and in the spring and fall, when soils are saturated and vegetative cover is dormant. The shoreline tributaries could contain elevated levels of nutrients and fecal indicator bacteria that will outlet into the nearshore waters, impacting water quality. The potential for pollutant loads to build along the Lake Huron shoreline as a function of the inputs from many ungauged tributaries is difficult to assess. Therefore this study is designed to contribute to the understanding of how inputs of pollutants from relatively small watersheds may affect water quality along the shoreline by providing discharge characteristics of small tributaries to be used in future water quality modeling.

The majority of previous projects focusing on the shoreline and the lakeshore tributaries have primarily been concerned with erosion and the area's land use. The ***Lake Huron Waterfront Study***, conducted for the Maitland Valley Conservation Authority (MVCA) by James F. MacLaren Limited in 1979, is one such study. It concentrates on ninety-six identified tributaries located between Port Albert and Bayfield, studying how the erosion of the tributaries could effect developments along the shoreline. No streamflow information was taken as part of this project. Given that this project was completed over 25 years old, many of the tributaries have been significantly altered as a consequence of erosion issues identified in the report[2]. The ***Lake Huron Shoreline Processes Study***, commissioned by all of the Conservation Authorities along the Lake Huron shoreline (Ausable Bayfield, Maitland Valley, St. Clair Region, and Saugeen Valley) and completed by F.J. Reinders and Associates in 1979, is also a very detailed project. However, since this project focussed on damages associated with high lake levels and storm activity along the shoreline, there were no streamflows measured[3]. ***Gary Lee Boyd's thesis*** on a descriptive model of shoreline development, showing nearshore control of coastal landform change is very similar to the shoreline processes study. Erosion rates due to lake effects (wave, wind, etc.) and development limits along the shoreline were produced, but no streamflows were recorded[4].

The Ausable Bayfield Conservation Authority (ABCA) produced a ***Shoreline Management Plan***, with its objective to reduce or eliminate damage that may occur to residences or developments adjacent to the shoreline during severe storms, especially in periods of high lake levels. The management plan is sought to prevent new development from occurring in hazardous areas and provide other details, as the plan identifies areas associated with flooding, erosion, storm damage, bluff failure and blowing sand, establishes setbacks from the shoreline for new development, and it provides shoreline management options (including protection) for existing developed areas[5]. The plan though has no consideration

[2] Knowles, 1979
[3] F.J. Reinders and Associates Limited, 1989
[4] Boyd, 1992
[5] ABCA et al, 2000

for streamflow within the shoreline tributary unless the proposed development alternates the waterway at the Lake Huron outlet, after the nutrients are present in the stream.

The most detailed report relevant to this project was a **hydrology study** commissioned by the Maitland Valley Conservation Authority, to review the hydrologic functions of the Maitland River watershed and provide direction for their watershed strategy. The study concentrates mostly on the Maitland and Nine Mile River, determining the baseflow characteristics of the gauged subbasins in the watershed. The study also identified subwatersheds where land use changes and land management practices are adversely impacting baseflow conditions, developed baseflow norms based on ecological considerations for each gauged subwatershed, and identified subwatersheds where baseflow in the watersheds can improve to near normal conditions for supporting aquatic life[6]. This study also provides hydrologic information about several ungauged watersheds along the shoreline, including the development of unit hydrographs and rainfall data for the shoreline watersheds. The project divides the shoreline into seven watersheds, even though there are many tributaries flowing into the lake. What the project does not provide is details on a subwatershed level, separating each individual stream along the shoreline and describing the baseflow characteristics of each. Figure 1.2 shows the grouping of shoreline watersheds as described in the MVCA Hydrology Study. The coloured sections are the watersheds were reviewed by the hydrology study, while the black lines indicate subwatershed boundaries within each shoreline watershed area (Figure 1.3 displays the same division of subwatersheds for the ABCA watershed). The study also recommended a streamflow station be located near Hwy. 21 on the Nine Mile River, close to the shoreline. These plans have not been implemented.

Currently there are projects and programs within the MVCA and ABCA that concentrate on water levels and streamflows. Throughout the jurisdiction, both conservation authorities monitor the water levels, streamflows, and precipitation measurements at several points along the major streams through the flood forecasting system. There are two stations are in place along the Nine Mile River, one of the identified shoreline streams used in this project, to measure water levels for the flood forecasting program. These gauges are located at the rainfall gauge near downtown Lucknow and at the convergence of Dickies Creek and Anderson Creek, before both streams converge into the main branch of the Nine Mile River. On the Maitland system, there is a flood forecasting station in Benmiller, off of Hwy. 8 near Goderich. The ABCA has stations in Varna and Exeter, along the Bayfield and Ausable River respectively, which are also the two closest ABCA stations to the shoreline. However all of the flood forecasting stations are too far from the shoreline for the measurements to represent accurate precipitation measurements for the small subwatersheds and streamflows entering Lake Huron.

[6] B.M. Ross and Associated Limited, 1999

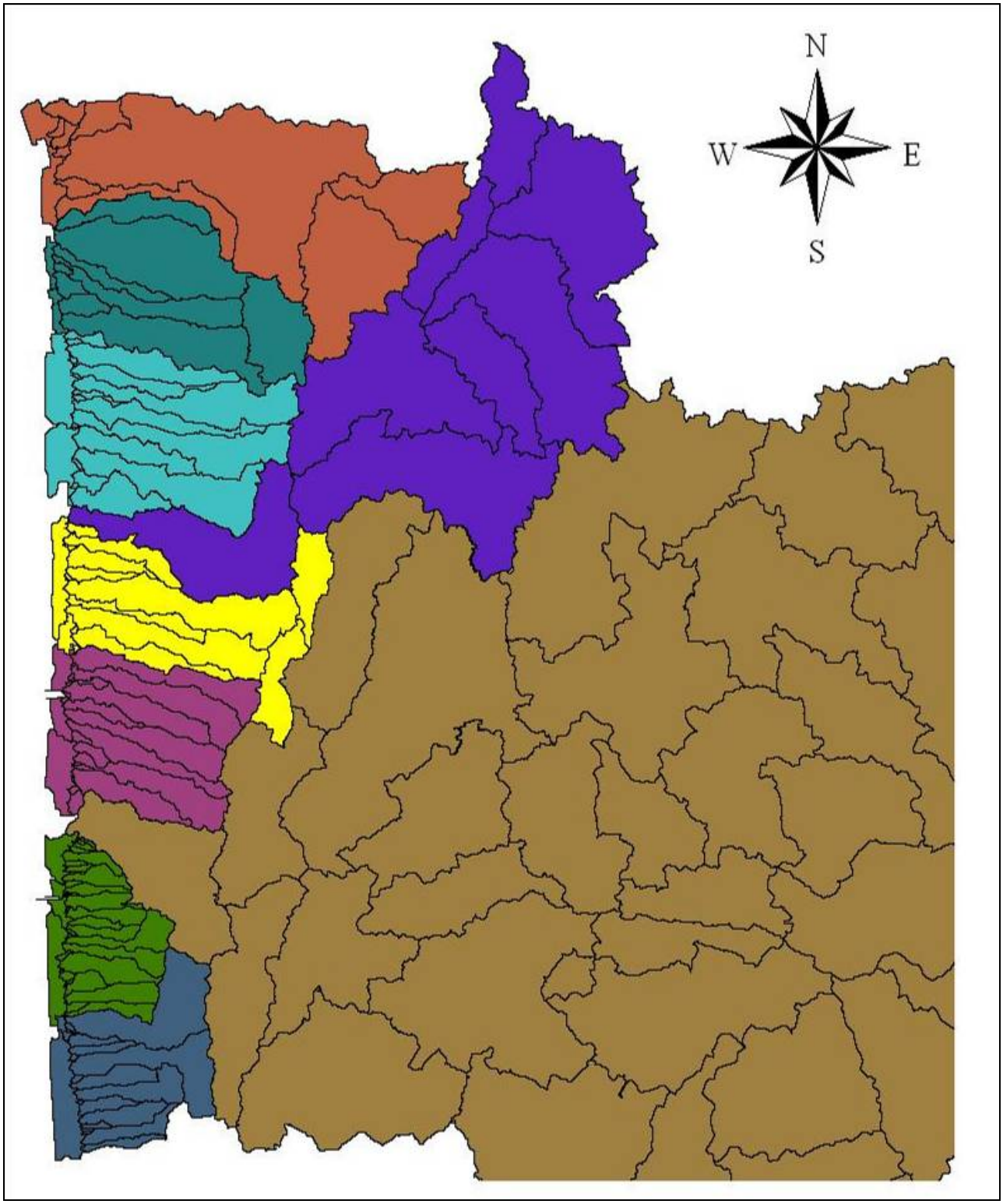


Fig 1.2: Shoreline watersheds (coloured sections) according to MVCA hydrology study, and subwatersheds (black outline) that outlet into Lake Huron[7].

[7] B.M. Ross and Associated Limited, 1999

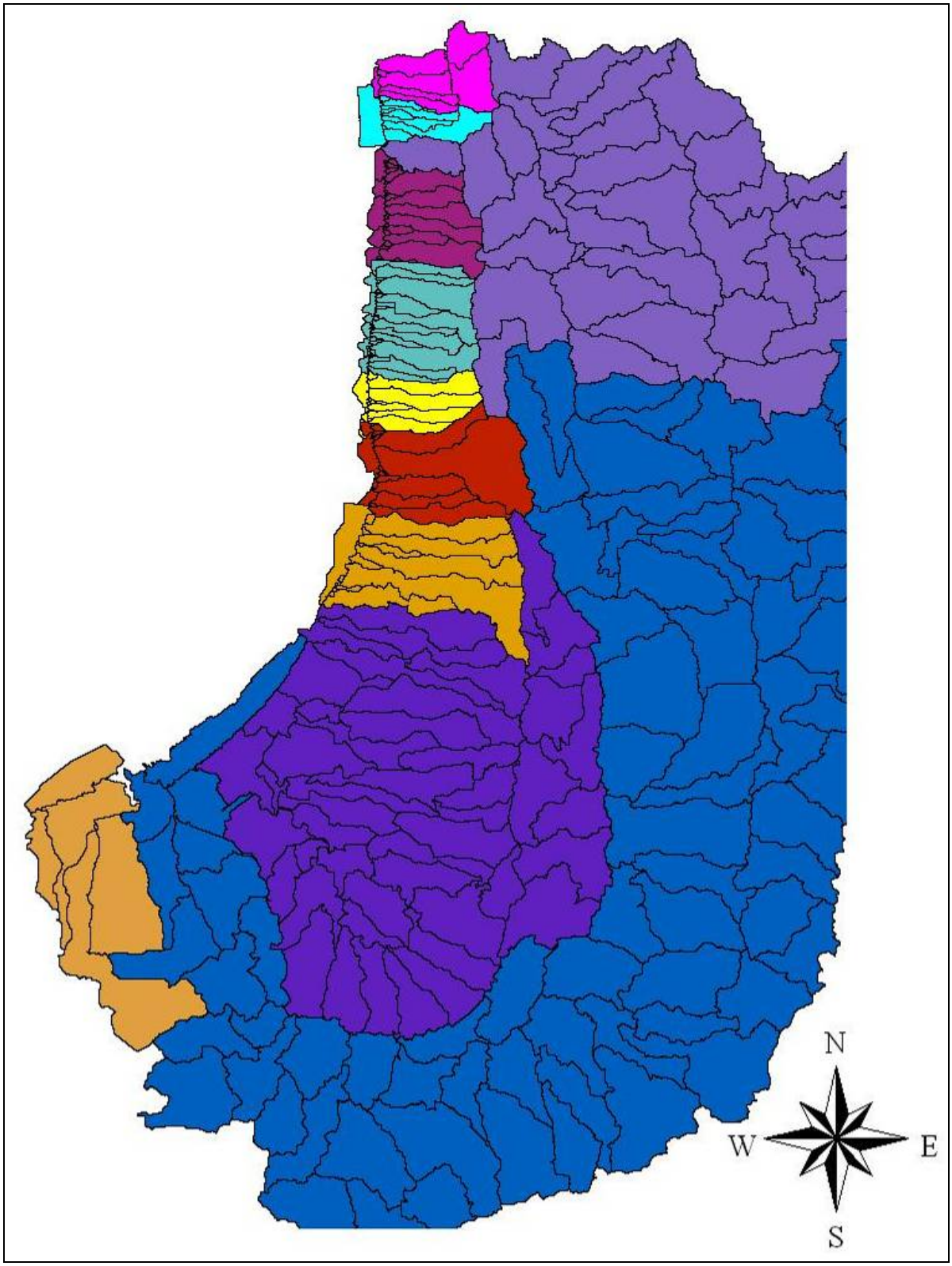


Figure 1.3: Shoreline watersheds (coloured sections) and subwatersheds (black outline) that outlet into Lake Huron.

For the purpose of this study, flipping bucket rain gauges (see Figure 1.4) were installed close to the shoreline. Since the flood forecasting stations were considered too far from the shoreline, it was hoped that these manual rain gauges could better represent precipitation within the shoreline tributary watersheds. The rain gauges were installed in Port Albert and at the Ashfield-Colborne-Wawanosh service garage along County Road 20, in the middle of the Ashfield Ward. These rain gauges record 0.2 mm of precipitation with every tip. A hobo-type data logger was used to record the number of bucket. Rainfall data from early March 2006 to November 2006, as part of this study were collected using this rain gauge setup. A number of shoreline residents in the ABCA region have also allowed the ABCA to install makeshift rain gauges to obtain precipitation measurements along the shoreline. The measurements from these rain gauges is available, however, at a few rain gauges the data was incomplete and unusable.

Fig 1.4: Manual Rain Gauge at Ashfield-Colborne-Wawanosh Service Garage

The regional weather and local effects for the Lake Huron shoreline is complex, as the Great Lakes are an area of development for low-pressure systems. Prevailing winds over the southern Lake Huron coastline are south or south-westerly. Summer wind speeds average 15 knots but winds may reach as high as 50 knots with the more intense storms of winter. Thunderstorms occur more frequently in the area of the Lake Huron shoreline and, due to warmer water temperatures, the storms tend to maintain most of their intensity. Water spouts are common from August through late October, usually accompanying convection in outbreaks of cold air. In the winter, the cold waters of Lake Huron create lake effect snowstorms. For a distance of 32 km inland from the east shore of Lake Huron, during the late spring and early summer, a lake “shadow” will exist where little cumulus clouds will form, due to the dome of cold air that slides in off the water. Along the eastern edge of this “shadow”, areas to the east of this line will often see broken cloud, while areas to the west of the line will see

scattered or no cloud. Precipitation is less within the lake shadow during May and June, while the reverse happens in the fall months[8].

1.3 Objectives

The main objective of this project is to obtain a better understanding of the different surface water runoff patterns for the small tributaries that drain directly into Lake Huron. To achieve this objective, several tasks have been identified.

The first task is to develop an approach that would yield hourly to daily predictions for different tributary discharges to the lakeshore. A technical evaluation of selected hydrologic models, suitable for modelling the physical and land-use conditions of the shoreline, has to be completed using only limited amounts of site-specific environmental and field data. A suitable model could illustrate the fluctuations that are anticipated from precipitation events in order to specify how the tributaries respond differently and what physical or land use factors affect the responses.

Other deliverables for this project include examining the relationship between predicted discharges from small to moderate sized tributaries and readily available environmental data. If a relationship could be established, its discharge estimates could reduce the effort required to determine future responses of the tributaries.

2 Field Data Collection Program

2.1 Introduction

Watersheds associated with the Maitland River, Nine Mile River, Bayfield River, and Ausable River are large. Therefore, these river systems output a good portion of the streamflow entering the southeast edge of the Lake Huron. These streams are gauged and data is recorded to understand the extent of flooding and potential erosion though the subwatersheds. But the shoreline also consists of small to moderate sized tributaries that drain into the lake. These tributaries are ungauged, with no point streamflow, water level, or precipitation data collected. This data will be needed to understand the hydrology of these tributaries. A program for field data collection was established to obtain these measurements for this project. Criteria were developed to select the methodology and respective events, and procedure setup that would produce proper measurements.

[8] Klock, R. et al, 2000

The selected tributaries and rainfall events are to be representative of the shoreline. Selecting the right tributaries was crucial, and an emphasis on establishing criteria that would produce a respectable representation of the shoreline and their respective watersheds was made. This would ultimately minimize the workload and still produce reliable results.

This project required discharge measurements on selected, representative tributaries along the Lake Huron shoreline for different precipitation events. Therefore a priority for this project was to obtain as much precipitation data and streamflow data as possible across a wide range of watershed conditions. Soil moisture conditions in the spring or during snowmelt are completely different from the summer, when drier soil conditions exist and as a result, watersheds are less responsive to rainfall events. Discharge rates at different times after a rainfall would also be available, obtaining a range of discharges and developing a complete picture of the streamflow characteristics following a storm event. Due to the high variability of rainfall event durations, magnitudes, and frequencies, results from event-based discharge rates will vary.

2.2 Existing Data

There are not any significant and reliable pre-existing data for streamflow from the tributaries along the Lake Huron shoreline, except for the larger watersheds. Very little is known about their discharge patterns of the small “ungauged” subwatersheds. However, there are some projects in progress by the Maitland Valley and Ausable Bayfield Conservation Authorities, plus the Ausable Bayfield Maitland Valley Source Protection Region, which have measured and modelled streamflow, soil properties, and land use properties at watersheds along the Lake Huron shoreline.

As part of the **Nutrient Management Project** being performed by the two Conservation Authorities for the Ministry of Environment, streamflow has been measured since the end of August 2005 (March 2006 for the ABCA sites) at four locations along the shoreline. That project’s main purpose is to develop nutrient loads from monitored streams by taking water quality samples and measuring corresponding streamflows at those streams. The MVCA locations include the Eighteen Mile River, Kerry Creek, and Griffin’s Creek, with Zurich Drain for the ABCA (streamflow results for this project are listed below in Table 2.1). Fortunately, this project and the ABCA were able to establish similar measuring points together to assist both projects and mutually selected a cross section of the Zurich Drain. At Eighteen Mile, measurements were taken upstream of the Zion Rd. bridge but after the confluence with Boyd Creek. At Kerry Creek, the Nutrient Management Project streamflow measurements are taken close to the lake. Griffin’s Creek measurements are taken at Birch Beach Rd., west of Hwy. 21, close to the shoreline.

Table 2.1: Nutrient Management Project Streamflow results for tributaries in ABMV DWSP watersheds

Date	Streamflow (cms)		
	Kerry Creek	Griffen Creek	Eighteen Mile River
8/24/05	0.00016	Low Flow	-0.01185
9/28/05	0.1178	-0.00404	0.1818
11/2/05	0.05168	Low Flow	0.05205
11/16/05	0.6875	0.1818	1.4295
11/30/05	1.5391	0.6691	Strong Streamflow

Date	Nutrient Management Program – Zurich Drain		
	Time	Streamflow (cms)	Water Level (m)
4/3/06	1450	0.204	Not Installed
4/18/06	1122	0.156	0.196
4/24/06	1145	0.279	0.250
4/27/06	935	0.235	0.232
5/3/06	1519	0.082	0.143
5/11/06	1417	0.089	0.166
5/17/06	1436	0.058	0.129
5/31/06	1444	0.041	0.980
6/15/06	1354	0.010	0.030
6/19/06	1450	0.009	0.051
7/10/06	1506	0.182	0.199
7/20/06	1523	0.002	0.016
7/25/06	1454	0.003	0.007
7/27/06	1439	0.153	0.196
8/3/06	1012	0.899	0.484
8/17/06	1428	0.005	0.015
9/13/06	1449	0.000	0.004
9/25/06	1506	0.012	0.156
10/4/06	1216	0.151	0.251
10/11/06	1446	0.048	0.184
10/18/06	1407	0.447	0.433

Note that for August 24, 2005 at Eighteen Mile River and September 28 at Griffen Creek, the streamflows were negative. Ineffective streamflow was present at the measurement cross section, causing the measuring apparatus to calculate backflow. Other dates where no measurement was recorded can either be explained by low water conditions (no streamflow through the stream) or high streamflow (too dangerous to enter the stream). The project discontinued taking measurements at Eighteen Mile River and Kerry Creek in April 2006.

Water level results before December 2005 were obtained for the Eighteen Mile River from the Ministry of Environment. Leveloggers located at the Hwy. 21 bridge and near the Zion Rd. bridge recorded water levels every ten minutes

since June 6, 2005. Unfortunately, the Levelogger at the Zion Rd. bridge was vandalized on July 30 and data were lost. It was not replaced. Leveloggers can be particularly useful for this project because continuous water level measurements (once corrected for air pressure), along with periodic streamflow measurements, can be used to develop a rating curve.

For physical and land use characteristics, this study made use of work completed as part of the Drinking Water Source Protection initiative underway in the Ausable Bayfield Maitland Valley Planning Region. A **water budget** is being prepared as part of the Ausable Bayfield Maitland Valley Source Protection Region's efforts to help characterize the hydrologic character of the planning region. The work related to preparing a water budget for the Source Protection Region provided this project with GIS compatible information on the distribution of soil, land use, historical precipitation/climate data, as well as the subwatershed drainage areas for the whole shoreline region.

2.3 Selection of Representative Watersheds

2.3.1 Criteria

To determine a representative group of tributaries for the study, several characteristics of the tributaries along the shoreline were reviewed and after field investigations, a group of tributaries were selected to be representative of the shoreline tributaries. Tributaries were judged on the following characteristics:

- Minimal municipal development (treatment plant, etc.) in area
- Ease of access for monitoring
- Representative of several tributaries
- Small tributary should not touch Wyoming Marine (source of significant groundwater discharge)
- Tributaries distributed over the shoreline
- Importance to study

The ability to be representative of other tributaries and accessibility were the most important characteristics. While it is unrealistic that all of the selected tributaries will have all of the above characteristics, significant effort was expended in order to obtain a fairly close representation of tributaries based on these criteria.

2.3.2 Selected Watersheds

Based on the above criteria, ten tributaries were selected to represent all of the small to moderate tributaries along the southeast shoreline of Lake Huron. See Appendix B for land use and soil characteristics. The tributaries selected are

decided in the paragraphs that follow (from north to south along the Lake Huron shoreline):

Boyd Creek

Boyd Creek is a small-to-moderate sized shoreline stream, just south of Amberley, ON. The stream converges with Eighteen Mile River before eventually draining into Lake Huron (see Figure 2.1). This creek is representative of the many different branches of creeks that lead into larger rivers like the Middle Maitland River and Nine Mile River. The creek is also easily accessible from Hwy. 21, with minimal municipal infrastructure in the area and is along with the Eighteen Mile River, the focus of an ongoing water quality study by the Ontario Ministry of Environment.

The Boyd Creek watershed is predominantly farmland, with some forested areas in the vicinity of its juncture with the Eighteen Mile River. Soil properties in the watershed consist mostly of clay to silt-textured till, with alluvial deposits along the riverbank[9]. There are also small areas of fine and coarse-textured glaciolacustrine derived sediment in the upstream reaches of the watershed.

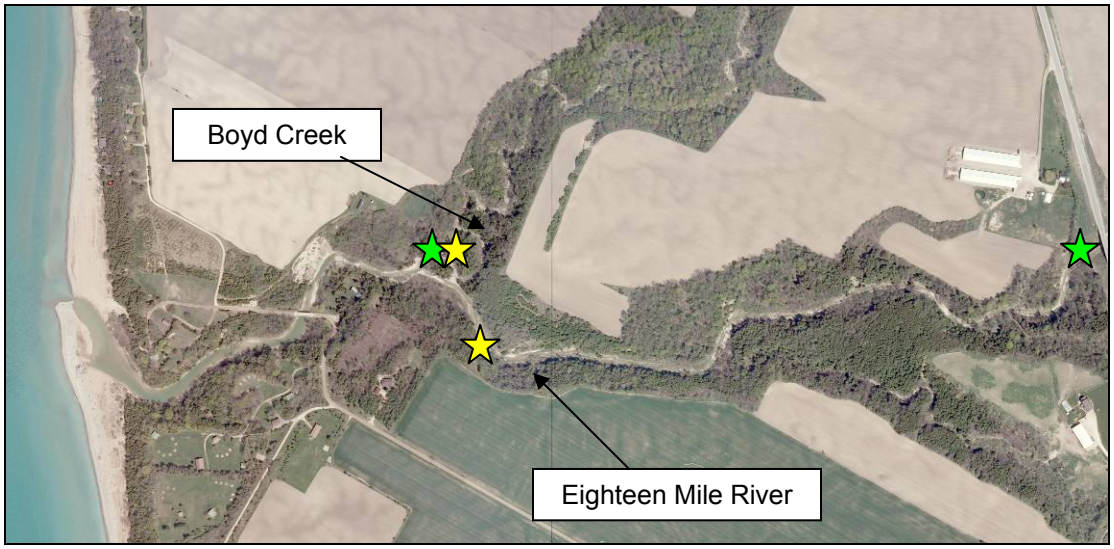


Fig 2.1: Air photo for Eighteen Mile River and Boyd Creek, west of Hwy. 21, with the streamflow (yellow star) and water level (green star) measurement location marked.[10]

Eighteen Mile River

Eighteen Mile River is a moderate-to-large sized river, converging with Boyd Creek close to the shoreline. Its outlet is located in the northern portion of the MVCA boundary, below Amberley, ON, and its associated watersheds spreads to

[9] B.M. Ross and Associates et al, 2003
[10] First Base Solutions Inc. (2006)

northern regions of the MVCA. This tributary is the site of an ongoing water quality study. Since more detailed hydrological modeling, field validation, and empirical evaluation of hydrological conditions are planned to be conducted at this site in the future, it was necessary to select this tributary for the study.

Land use varies in the watershed, but is primarily agricultural in nature, with some pockets of forested areas and cottage development situated along the lakeshore[11]. Due to the relative size of this watercourse upstream cumulative area, streamflows are normally observed in the river, and therefore streamflow measurements, including peak streamflows, should be routinely obtained at this location.

Kerry Creek

Travelling through Kintail, ON (north of Kingsbridge, between Amberley and Port Albert), the Kerry Creek tributary is small to moderate in size (see Figure 2.2). Based on size alone, it is a good representation of the lakeshore streams as there are many other creeks that are of similar size. The creek is also easily accessible from Hwy. 21, has minimal municipal development nearby, and streamflows are expected to fluctuate in response to rainfall events.

Fig. 2.2: Air photo of Kerry Creek, west of Hwy. 21, with the streamflow (yellow star) and water level (green star) measurement location marked.[12]

Covered by forest near the shoreline and surrounded by farmland upstream, Kerry Creek is very similar to the other tributaries. The soil characteristics surrounding the creek are slightly different, as there are significant areas of coarse-textured lacustrine deposits in the eastern section of the creek's drainage area. The major difference between Kerry Creek and the other selected tributaries is its size and location. The stream is bigger than Gully #65, smaller than the Eighteen Mile River, and similar to Zurich Drain. While similar size, Zurich Drain is located south of Bayfield, close to Grand Bend, and the streams would represent different regions of the shoreline.

[11] B.M. Ross and Associates et al, 2003
[12] First Base Solutions Inc., 2006

Nine Mile/Lucknow River

Running through Port Albert, ON (see Figure 2.3) at the shore and Lucknow, ON upstream, Nine Mile River is the largest of the shoreline tributaries selected for this project. As a shoreline tributary, it lies in size between the Maitland River and the Eighteen Mile River. Nine Mile River was included to represent a "large" tributary to the Lake Huron shoreline. Besides running through a populated area (Town of Lucknow) and a trailer park located at Hwy. 21, the municipal infrastructure is minimal. The stream is also accessible from various locations.

Streamflows in this tributary are voluminous and consistent, primarily because of its large drainage area and its receipt of groundwater discharge from the Wyoming and Wawanosh moraines in its headwater areas.

Fig. 2.3: Air photo of a portion of the Nine Mile River, west of Hwy. 21, with the streamflow (yellow star) and water level (green star) measurement location marked.[13]

Gully #64

Located at Black's Point (south of Goderich), this tributary was numbered #64 in the Lake Huron Waterfront Study[14]. This tributary is very small and very unique to the project, with only runoff and tile outlets contributing to its streamflow. There are many tributaries along the shoreline with similar characteristics and therefore it was prudent to select a tributary of this type. It was also acceptable using the other selection criteria, as it is easily accessible and does not extend into the Wyoming Moraine[15]. While there is an abandoned baseball field and parking lot located in the subwatershed, these are not considered municipal developments that will seriously alter natural streamflow patterns or water quality flowing through the tributary (see Figure 2.4)

Farmland makes up a good portion of this tributary's contributing land area, with tile drains feeding the tributary. The abandoned baseball field and parking lot are

[13] First Base Solutions Inc., 2006
[14] Knowles, W.L., 1979
[15] B.M. Ross and Associates et al, 2003

located directly behind the tributary, which are unlikely to create faster than natural runoff conditions as they are not covered with asphalt or any other impermeable material. Along the tributary, cedar trees dominate the area and cover the tributary from rainfall. There are also concerns about erosion along the upstream portion of the tributary, at the top of the gully. Response to rainfall events were expected to be fast in this tributary, so it will be crucial to obtain observations almost immediately after precipitation.

Gully #65

Located south of Black's Point (see Figure 2.4), this tributary was numbered #65 in the Lake Huron Waterfront Study. The tributary is small, but experiences consistent streamflow with minimal effects from the Wyoming Moraine. Also the tributary is a better representation of that particular geographical area (south of Goderich), and the site is easily accessible.

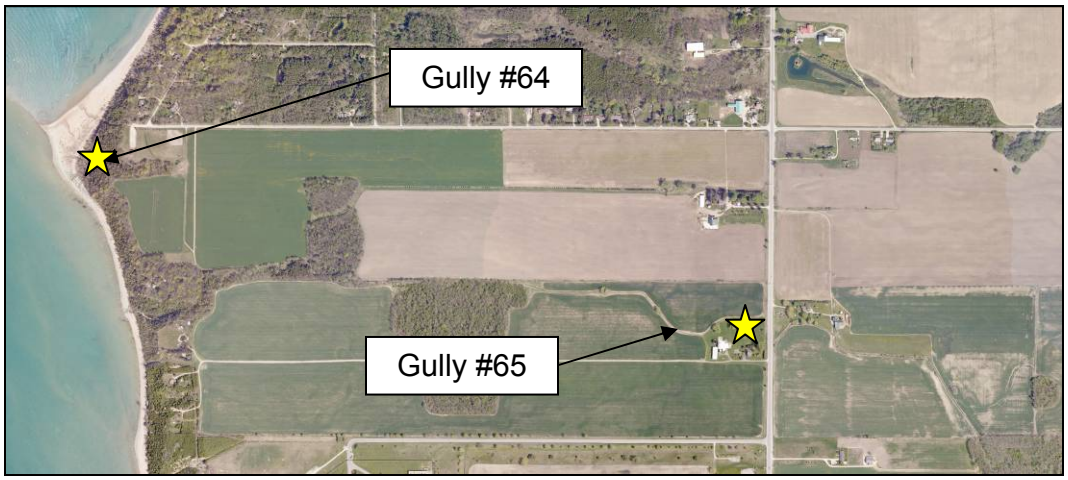


Fig 2.4: Air photo of Gully #64 and Gully #65, west of Hwy. 21, with the streamflow (yellow star) measurement location marked.[16]

Gully #65 drains mostly farmland, including livestock, area pasture and crop lands. The watershed area is mostly open, with some tree growth at the edge of the stream. Peak discharge is expected to come quickly, but because of its proximity to Gully #64, values will be simple to obtain from a logistical standpoint. The headwaters of the stream also extend minimally into the Wyoming Marine[17] which may be a source of some of the flows in the stream itself.

Gully Creek

Gully Creek is the most unique stream along the Lake Huron shoreline (see Figure 2.5 and 2.6). Located between Goderich and Bayfield, Gully Creek has the characteristics of a regular stream west of Highway 21. As it travels towards

[16] First Base Solutions Inc., 2006
[17] B.M. Ross and Associates et al, 2003

Potter's Line, two concessions east of Highway 21, the stream branches out into several streams, increasing the subwatershed area and the ability to collect surface runoff (follow green cover on the right side of the air photo). Along the bank, the stream is heavily vegetated, with farmland surrounding the top section of the stream.

Fig. 2.5: Air photo of the Gully Creek watershed[18].

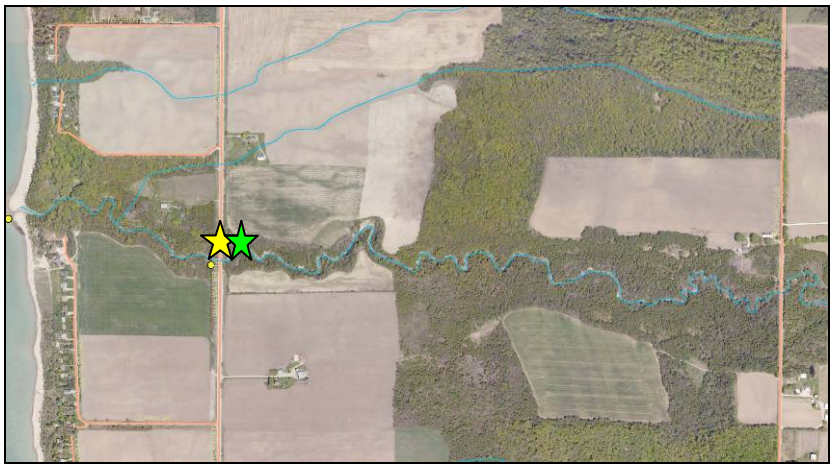


Fig. 2.6: Air photo of Gully Creek, with the streamflow (yellow star) and water level (green star) measurement locations marked.[19]

[18] First Base Solutions Inc., 2006
[19] First Base Solutions Inc., 2006

Although other streams along the shoreline do not share the same characteristics of Gully Creek, the uniqueness of the subwatershed area and amount of streamflow through the stream warrants its inclusion in the study. Other selection criteria apply to the tributary, however; as there is no municipal infrastructure near and it is easily accessible from Hwy. 21.

Momnersteg-Durand Drain (MD Drain)

The smallest drain measured in the ABCA section of the Lake Huron shoreline, the Momnersteg-Durand Drain is located south of Bayfield (see Figure 2.7). Similar to Gully #65, MD Drain can be characterized as a runoff drain for farmland surrounding the stream, collecting both surface runoff and tile drainage. This drain serves as a representative of the several tributaries along the shoreline that are small sized and primarily drain farmland runoff.

Fig. 2.7: Air photo of Momnersteg -Durand Drain, with the streamflow measurement (yellow star) location marked.[20]

Zurich Drain (also referred as Pergel Gully or St. Joseph Drain)

Zurich Drain is a moderate-to-large sized stream with various land use surrounding the stream. The stream is located between Bayfield and Grand Bend, just north to the Datar Miller measurement site. There is no major municipal development near the site, except for some cottages along the stream east of Highway 21. The remaining section of the stream, west of Highway 21, is surrounded with forestry and farmland surrounding the trees (see Figure 2.8).

In the watershed, land use varies, consisting primarily of agricultural lands, with some forested areas and cottage development along the lakeshore. Significant streamflow travels through the river, having consistent discharge rates. Therefore streamflow measurements, including peak streamflows, could be reliably obtained at this location. More data would also be collected for this site through the Nutrient Management Project.

[20] First Base Solutions Inc., 2006

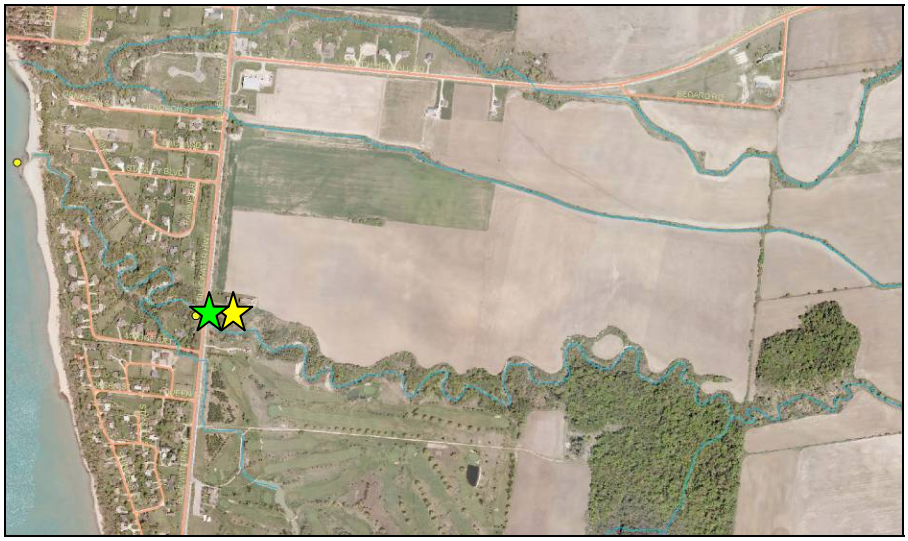


Figure 2.8: Air photo of Zurich Drain, with the streamflow (yellow star) and water level (green star) measurement location marked.[21]

Datar Miller

The Datar Miller stream is situated north of Grand Bend but is not linked with the Lake Huron Water Supply Plant at Port Blake. The tributary is located far enough from the plant that the stream is not effected. The stream is a small-to-medium sized watercourse that travels past Highway 21 (see Figure 2.9). Datar Miller represents the medium sized stream in the southern section of the shoreline. Along the banks, agriculture surrounds the stream and there is little vegetation to have plant interception of water.

Figure 2.9: Air photo of Datar Miller, with the streamflow measurement (yellow star) location marked.[22]

See Figure 2.10 and 2.11 for a map that locates the respective streams.

[21] First Base Solutions Inc., 2006
[22] First Base Solutions Inc., 2006

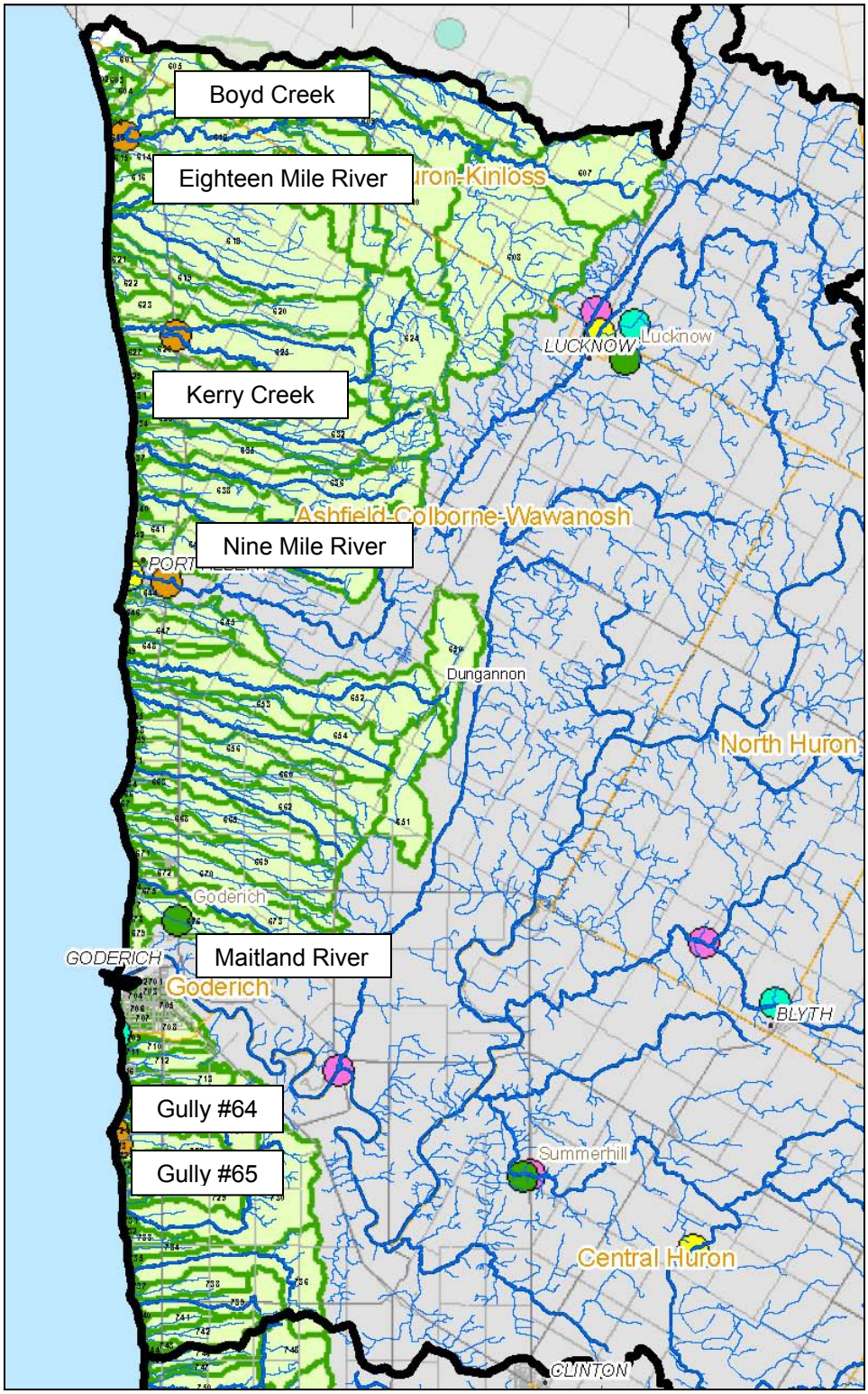


Fig 2.10: Map of the streamgauging locations, with respect to the Lake Huron shoreline[23].

[23] Ausable Bayfield Maitland Valley Source Water Protection Technical Team, 2007

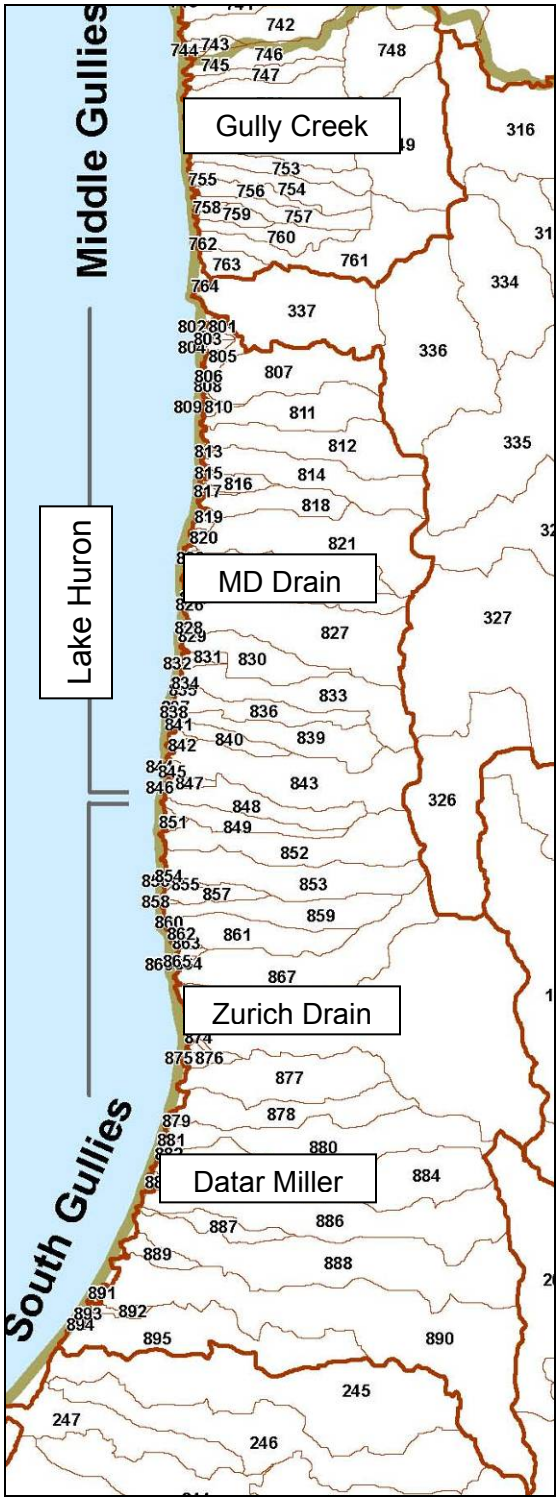


Figure 2.11: Map of the streamgauging locations, with respect to the Bayfield River and Lake Huron shoreline[24].

[24] Ausable Bayfield Maitland Valley Source Water Protection Technical Team, 2007

2.4 Anticipated Findings

Starting in November 2005 and ending in November 2006 (Ausable Bayfield CA site measurements were taken from March 2006 to November 2006), streamflow measurements were taken under various conditions from the selected tributaries. These measurements were then used to develop a rating curve that would predict streamflows for a given water level. These field measurements, when combined with continuous water level recordings where available and compared to model calculations, formed the basis of a better understanding of the hydrologic nature of the ungauged tributaries along the Lake Huron shoreline.

Several anticipated findings, or hypotheses, were developed, forecasting outcomes and implications of the project. Observations made as part of this study were then used to verify or refute these hypotheses of hydrologic response of the shoreline tributaries.

The hypotheses were as follows and were used as the basis for developing methodology.

1) The largest streamflows would be produced as a result of snowmelt

With snow precipitation collected throughout the winter, a significant amount of runoff entering the streams is expected to occur during spring snowmelt as the ground thaws. Because of the winter cold, snow over the winter would accumulate over time in the subwatershed. Also the ground would be expected to be frozen, with moisture restricting infiltration. Once warmer weather arrives in the spring and precipitation becomes rainfall, water from the rain would melt snow and the slower thawing of the ground would combine to cause significant runoff amounts to drain into the tributaries. Therefore in March and early April, it is reasonable to believe that the snowmelt and ground thaw would produce the largest streamflows.

Outside of the spring snowmelt period, the other possibility for high streamflows occurs during infrequent but significant storm events. If a 100-year storm or a Hurricane Hazel-type of storm were to occur over the tributaries, large streamflows would also be produced. The possibilities of such storms occurring in the timeframe of this study are slight, and could not be depended on to produce regular large streamflows. Therefore, it was likely that the spring would have the largest streamflows unless a rare large storm event occurred.

2) Larger streams will produce larger streamflows

Nine Mile River and Eighteen Mile River are the two largest rivers selected, followed by Kerry Creek, Boyd Creek, Gully #65 and Gully #64. In the Ausable Bayfield CA jurisdiction, Zurich Drain and Gully Creek are the largest and second

largest streams selected respectively, followed by Datar Miller and MD Drain in size.

Assuming that each tributary has similar characteristics that would not cause sufficient changes of streamflow, the largest streams are expected to produce the larger streamflows for a specific rain event. For instance, MD Drain would not produce larger streamflows than Zurich Drain or Eighteen Mile River.

3) Very low summer streamflows

In the summer months, very low streamflows are expected, as infiltration occurring on farmland and forested areas would intercept and use most available moisture, and evapotranspiration would be accelerated over the higher temperatures. In the summer, evapotranspiration is high due to vegetation growth. It can be expected that streamflows would be either small in the medium-to-large streams or very small in the small-to-medium streams. This might make it difficult to obtain streamflow measurements from the smaller selected tributaries at this time of the year.

2.5 Streamflow Measurement Methodology

There were three phases to this study:

- Assembling all necessary data to support the calculations and assessments required to develop the stated conclusions; including field investigations to obtain site specific data.
- Undertaking calculations, using the assembled data, to quantify the processes occurring through the tributaries.
- Reviewing and interpreting all the data.

Specific rainfall events were selected at different periods of the year to obtain a full-range of hydrologic characteristics. Major rainfalls for each season (spring, summer, and fall months) were needed because different land uses and stages of plant growth are present in each season, possibly leading to variations in streamflow and water level measurements. Times of the largest and smallest streamflows were essential to getting a maximum and minimum streamflow of the stream. Regular streamflow measurements were also taken, to fill in the gaps between major storms and the dry months.

Criteria for what constitutes a significant wet weather event were to be defined, with duration and quantity of the rainfall event needed to be considered. A large rainfall may not create a significant amount of runoff because soil infiltration rates are matching rainfall intensities. Events of 50 mm or more also happen less frequently particularly those of short duration. Ten millimetre rainfalls happen much more frequently and may or may not generate streamflow depending on

the intensity and duration of the event. Considering rainfall events from previous years and when those rainfall events have occurred, historically rainfalls of 25 mm over several hours were selected for consideration. In many watersheds, the storms allowed enough precipitation to saturate the soil and still create runoff, which could subsequently lead to raising water levels and increasing streamflows.

To assemble most of the necessary data to support the calculations and obtain specific streamflows for event-based rainfalls, it is necessary to travel to the sites to obtain velocity readings manually. With the tributaries selected, proper cross-sections of the monitored stream were measured. The location of the cross sections, listed in Table 2.2 and AA.1 in Appendix A, were perpendicular to the stream and situated to avoid certain streamflow conditions (no backwater and minimal perturbation of streamflow), easily accessible, and has no obstructions nearby.

Table 2.2: Location of Cross Sections at respective tributaries.

Tributary	Location
Boyd Creek	North of the confluence with Eighteen Mile River
Eighteen Mile River	Upstream of the Zion Rd. bridge and the confluence with Boyd Creek
Kerry Creek	East of the Hwy. 21 bridge, upstream from bridge
Nine Mile River	At the foot of the bridge
Gully #64	Off a trail passing over the stream near the beach
Gully #65	West of the Hwy. 21 bridge, on the private property of 79511 Bluewater Hwy.
Gully Creek	East of Hwy. 21 overpass, upstream from bridge
MD Drain	West of Ravine St., off Pavilion Rd
Zurich Drain	East of Hwy. 21 overpass, upstream from bridge
Datar Miller	East of Hwy. 21 overpass, upstream from bridge

Special considerations were made while selecting these locations. For the Eighteen Mile River, streamflows were dangerous at times during the snowmelt. Therefore measurements were taken at either the Zion Rd. or Hwy. 21 bridges due to safety considerations. This effected the measurements for Eighteen Mile River and Boyd Creek because the locations are separated over a kilometre apart, missing surface runoff and baseflow contributions to the tributary. At Kerry Creek, the Hwy. 21 location was chosen instead of the location used in the Nutrient Management Project because the Nutrient Management location was very difficult to access (required travelling through the beach into a ravine that is

narrow and would experience high water levels). The Hwy. 21 location was immediately adjacent to the road and easily accessible.

To calculate streamflows, velocities were measured using a portable flow meter, Marsh-McBirney Model 2000 Flo-Mate. Connected to the end of a Top Setting Wading Rod, the Flo-Mate averages the velocity of a stream over a fixed period of time at the selected cross section (see Figures 2.12 and 2.13). Through the cross section, the velocities were measured every 25 to 50 cm, depending on the severity of the streamflow. The Top Setting Wading Rod, when the side bar is set to the water level at that part of the cross section, automatically adjusts the depth of the meter to 60% of the water level, the effective depth of the stream. This gives measured values of velocities in order to calculate streamflows at the cross section, by using the mid-section method equation[25]:

Equation 2.1

$$Q = v_6 d_6 \frac{b_7 - b_5}{2}$$

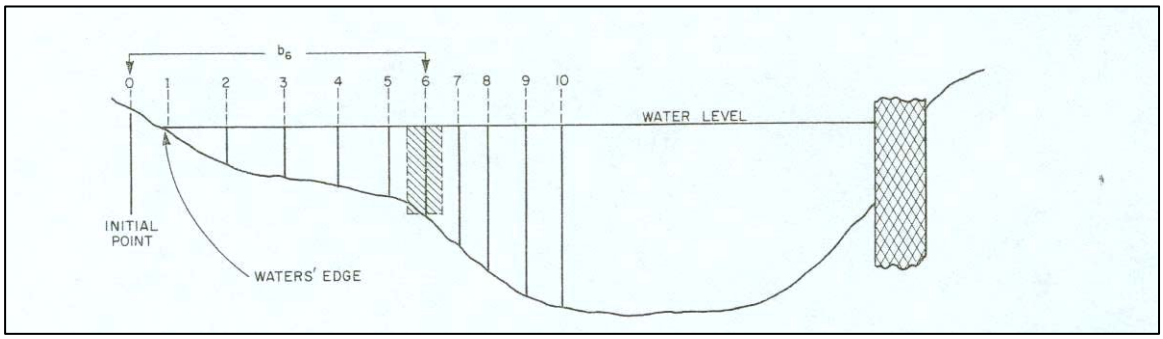


Fig 2.12: Mid-section Method to calculating streamflow.

When there were rainfall or snowmelt events that produced large streamflows in the streams, it became unsafe to access the selected locations with the Flo-Mate, so a different methodology had to be developed. During high streamflow conditions, streamflows were estimated at a bridge overpass near the cross section. To obtain measurements, a pulley system apparatus was developed to lower the Flo-mate meter (with a heavy aerodynamic weight connected to it) into the centre of the river, where measurements were taken at different elevations, starting with the river bottom (see Figure 2.7b). Once the depth was determined, the Flo-Mate was lowered into the stream and a streamflow velocity measurement was taken. These measurements were averaged and gave an approximate streamflow measurement. However, since the stream moved the weighted Flo-mate, as the weight was not heavy enough, the water level could not be precisely determined using this method.

[25] Terzi, R., 1981

a)

b)

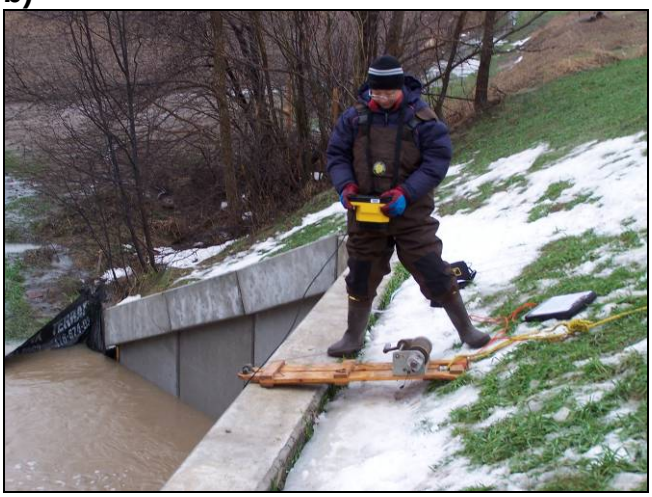


Fig 2.13: Streamgauging with a) the Flo-Mate apparatus; and b) the bridge apparatus at Boyd Creek Hwy. 21 overpass.

In March 2006, Leveloggers were installed in the large-to-medium sized tributaries that were ungauged. Levelogger Model 3001 uses a state of the art ceramic pressure transducer, providing reliable and consistent water level readings. This reduces the possibility of depth reading drift to a minimum. All Leveloggers measure total or absolute pressure and, when submerged, record the combination of barometric pressure and water pressure. The Levelogger converts the total pressure reading to its corresponding water level equivalent. The actual water level is obtained by compensating for barometric pressure.

With these data, along with measured streamflows, a rating curve for the stream could be developed, producing a rating curve that could be used to compare to the model calculations. However, Leveloggers were not installed in the smaller streams. MD Drain and Gully #64, anticipated to only rarely exhibit or exist of very little streamflow, were not equipped with a Levelogger. Gully #65 also was not equipped with a Levelogger, since there was no location for it to consistently have water above the Levelogger. The locations of the Leveloggers are listed in Table 2.3.

The Leveloggers were to be located as close to the streamflow measurement sites, if not right at the location, as possible. The only exception was Eighteen Mile River, as it was valuable to collect as much data as possible and a Levelogger was already positioned at the Hwy. 21 bridge before the project started. The position for streamgauging was a better location to obtain streamflow data, as it was before the confluence with Boyd Creek and with the Boyd Creek Levelogger, the measurements would represent data of the two main branches of the river before the two streams combine. Another Levelogger was positioned after the confluence, with both influences of the Boyd Creek and Eighteen Mile River branches. But that Levelogger would have combined streamflows and the difference would not be distinguishable.

Table 2.3: Location of Level Loggers at Respective Tributaries

Tributary	Location
Boyd Creek	North of the confluence with Eighteen Mile River, upstream of measurement site
Eighteen Mile River	At Hwy. 21 bridge
Kerry Creek	East of the Hwy. 21 bridge, at measurement site
Nine Mile River	Right at the foot of the bridge, at measurement site
Gully Creek	Upstream of measurement site, in deeper water
Zurich Drain	At measurement site, east of Highway 21 bridge

2.6 Field Observations

Many observations during field measurements where made throughout the year. The hypotheses developed earlier in the project were compared to the field data and conclusions based on the field observations were made.

Early in the field data collecting process, some patterns became visible in the Maitland Valley measurement sites. On November 18, 2006, the six MVCA subwatersheds were measured for the first time and the correlation between subwatershed size and streamflow could be seen. Nine Mile River had the largest streamflow measured, with smaller measurements for the smaller subwatershed size except Gully #64, which had no streamflow. After a major rainfall event on November 28 2005, snowmelt runoff from a major snowfall event days before occurred. The bridge apparatus was not developed yet and streams were too dangerous to enter, meaning larger streams like the Eighteen Mile River (and Boyd Creek, since the confluence could not be reached) could not be measured at the time.

Table 2.4: Field streamflow measurements taken in 2005.

Date	Streamflow (cms)					
	Boyd's Creek	**Eighteen Mile**	**Gully #64**	**Gully #65**	**Kerry Creek**	**Nine Mile**
11/9/2005	0.024	0.058	No Setup	No Setup	0.044	No Setup
11/18/2005	0.151	0.618	Low Flow	0.013	0.209	2.487
11/29/2005	High Streamflows	High Streamflows	0.036	0.236	High Streamflows	High Streamflows

Two important observations were made on November 11, 2005. Streamflow measurements could be taken at Gully #64, giving us an indication of when streamflows could be expected in small sized tributaries (see Figure 2.14). Also the conditions witnessed that day were similar to conditions that might be expected in late February/early March when snowmelt occurs and rainfall plus melting snow will create high streamflows in the streams. Having an idea of how those conditions will obstruct streamflow measurements greatly helped finalize methodology so that values could be obtained for future high streamflow events.

Fig 2.14: Gully #64 after major rainfall event on November 28, 2005

During the winter, the top of the streams were either frozen, too dangerous to measure streamflow, or were dry and snow covered. Nine Mile river was the only accessible stream that could be measured at the planned location as the consistent streamflow prevented ice from forming on top of the water. To access the Eighteen Mile River and Boyd Creek site, the river was frozen at the measurement location and unsafe. The next easily accessible locations were at Hwy. 21, approximately a kilometre from the designated measurement locations. While the difference in distance was unavoidable and undesirable, the difference in runoff were not considered be too significant as this location is where snowmelt measurements in the spring were to occur at that location as well.

There were times in January when milder temperatures melted some of the snow, increasing streamflows. In the spring though, the snowmelt and ground thaw brought large streamflows, with streams experiencing velocities over 2.00 m/s (see Figure 2.15). The bridge apparatus was needed, and those measurements were taken off bridges passing over the streams. The bridges on Hwy. 21 over Eighteen Mile and Nine Mile Rivers were too high and the Flo-mate apparatus was too short. There were no surrounding bridges along the Nine Mile River to take suitable measurements, therefore snowmelt measurements could not be taken safely. Eighteen Mile River, fortunately, had the bridge located on Zion Rd., west of the confluence with Boyd Creek. When the bridge apparatus was first used, an aerodynamic five pound weight was used to weight down the Flo-Mate. Unfortunately, for most streams it was not heavy enough and the Flo-Mate would skip on the top of the water. A ten pound aerodynamic weight was obtained and measurements could be done under high streamflows.

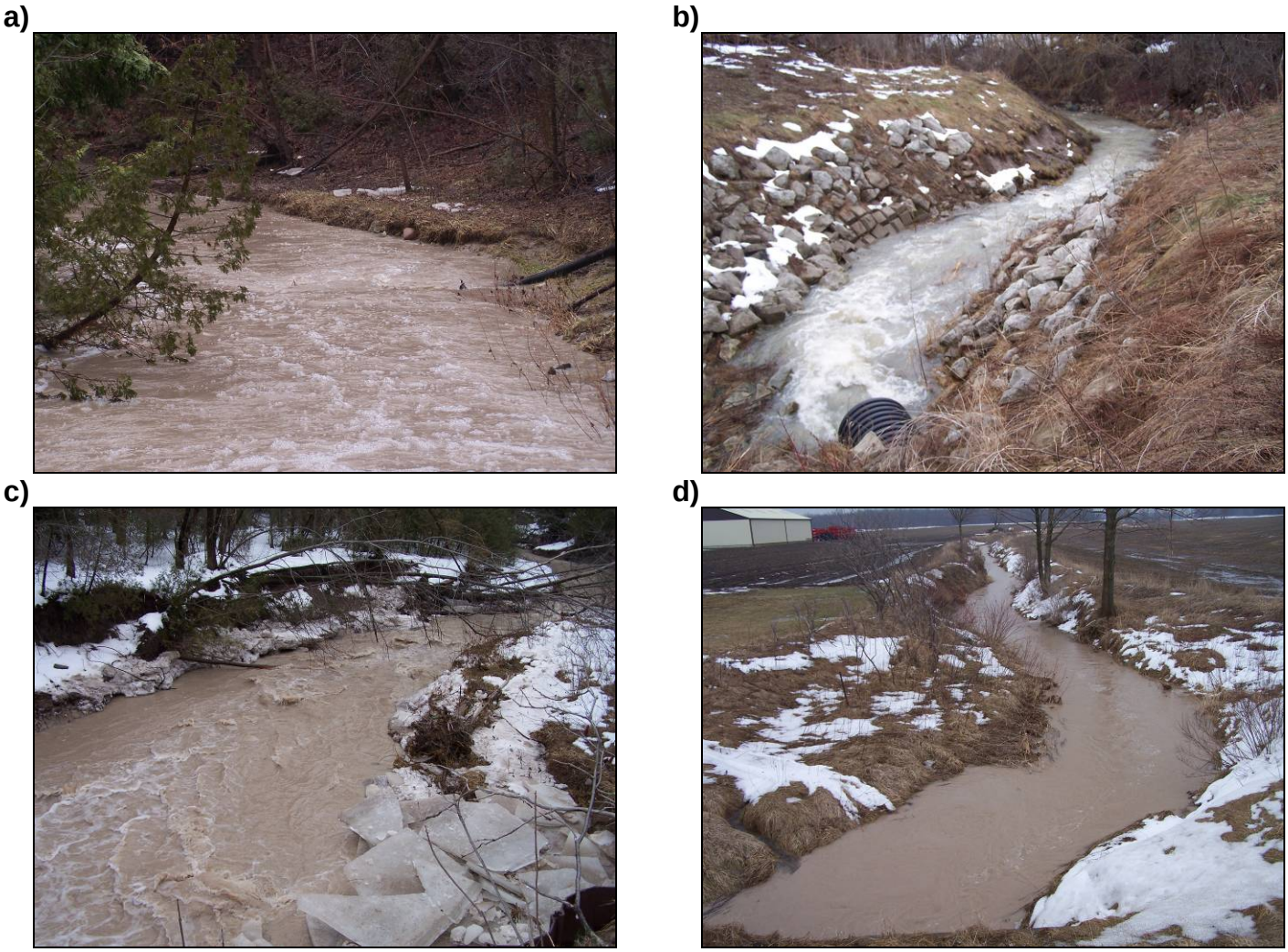


Figure 2.15: Spring snowmelt streamflows at a) Gully Creek; b) MD Drain; c) Zurich Drain; and d) Datar Miller.

Leveloggers were installed in late March 2006, after the snowmelt and ground thaw, to help produce rating curve graphs with measured streamflows. Unfortunately the Leveloggers were not in place before the snowmelt, and those water levels could not be used with other streamflows in the rating curve. This might have produced more accurate rating curve equations. There were also setbacks with the Leveloggers throughout the summer. The worse case scenario occurred, as the Leveloggers in Kerry Creek and Nine Mile River was vandalized, losing months of water level data. The Leveloggers were eventually replaced, but not enough water level data could be obtained to produce suitable rating curves.

Also during the early part of the summer, construction on the Hwy. 21 bridge over Kerry Creek prevented streamflow measurements from being taken. Access to another section of Kerry Creek was difficult and no streamflow measurements were taken for most of the summer. By August 2006, streamflow measurements of Kerry Creek continued, and at that time, it was discovered that the Levelogger was vandalized.

During the summer months, the crops and plant life surrounding the tributaries are active (growing). Runoff was at a minimal due to vegetation interception and evapotranspiration. Therefore the streamflows were low during those months of measurements. Figure 2.16 displays how dry the streams in the Ausable Bayfield watershed would become during the summer months.

On July 10 and 11, 2006, the area witnessed several large rainfall events, with precipitation amounts over 25 mm. Measurements were taken after these rainfall events and streamflows increased (see Table 2.5 and Figure 2.17). While the streamflow measurements were higher than other summer measurements, the streamflows were never higher than spring and fall streamflows. These measurements correspond to the type of effect vegetation and crop growth (evapotranspiration and interception) and resulting antecedent moisture have on the stream during the summer months. Gully #64 remained completely dry after the rainfall events.

During the summer months, streams still had water sitting in the stream but no moving streamflow, with velocity values were less than 0.03 m/s. Sections of Boyd Creek, while apparently dry at the mouth of the Eighteen Mile River (see Figure 2.18), and Datar Miller still had water in the streams. Water would “pond” in the streambed if the stream dried up in one section and became discontinuous from Lake Huron.

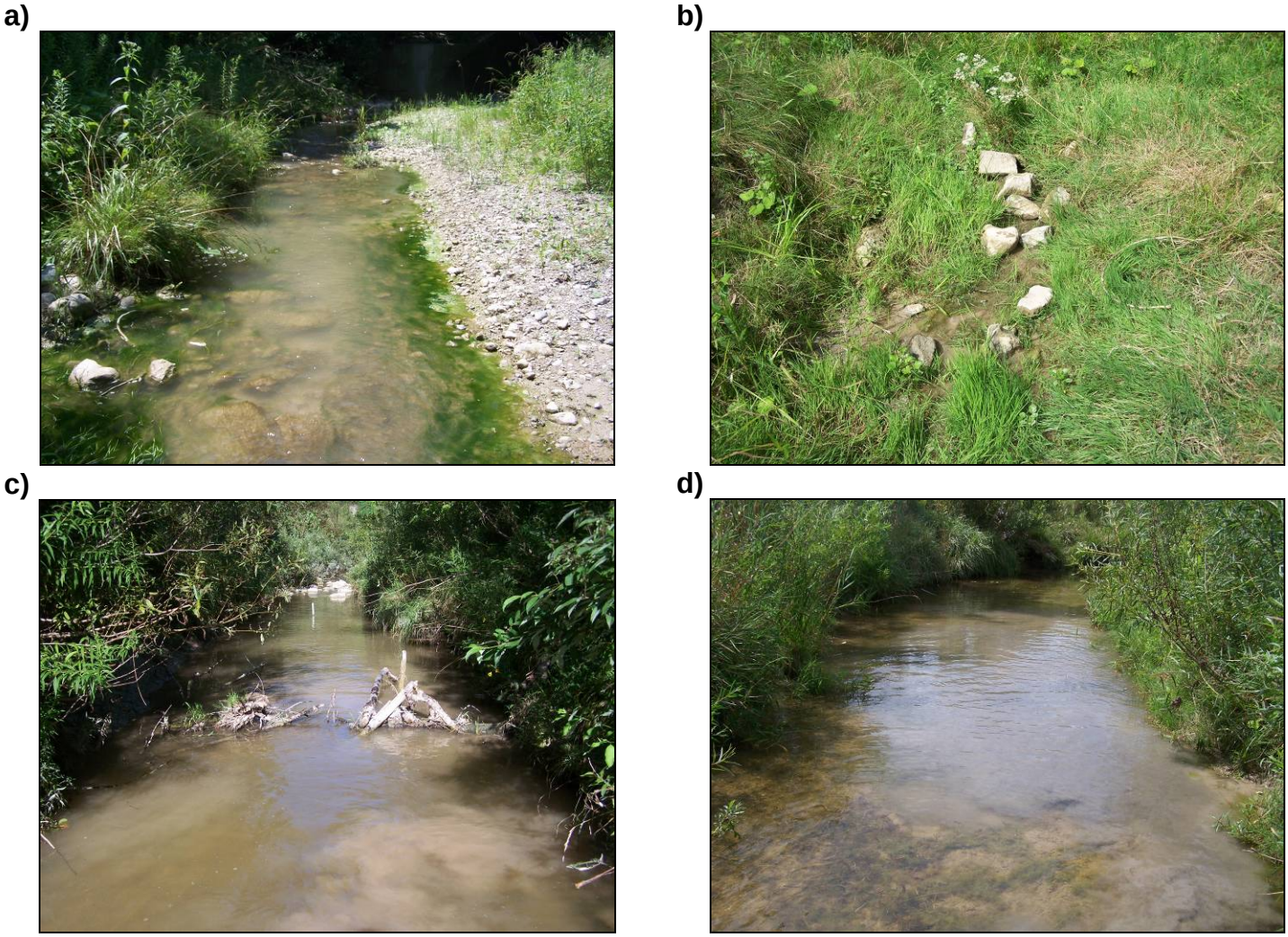


Figure 2.16: Summer streamflows at a) Gully Creek; b) MD Drain; c) Zurich Drain; and d) Datar Miller.

Table 2.5: Changes in Streamflow before and after July 10/06 25 mm rainfall event.

Date	Streamflow (cms)								
	Boyd Creek	**Eighteen Mile River**	**Nine Mile River**	**Gully #64**	**Gully #65**	**Gully Creek**	**MD Drain**	**Zurich Drain**	**Datar Miller**
June 20/06	Low Flow	0.106	0.958	Low Flow	Low Flow	0.027	Low Flow	0.034	0.002
July 5/06	Low Flow	0.0021	0.414	Low Flow	Low Flow	0.016	Low Flow	0.006	-0.003
July 10/06	0.0054	0.0282	0.890	Low Flow	0.0129	0.064	Low Flow	0.177	0.003
July 12/06	0.105	0.130	2.961	Low Flow	0.0347	0.313	0.008	0.029	0.005

1) 2)

Fig 2.17: Boyd Creek outlet on 1) July 5 2006; 2) July 12, 2000

Measurements in the autumn were a repeat of the previous year, confirming previous observations for the Maitland Valley CA sites. The difference between rainfall events from late spring/summer months and autumn months could be seen. After rainfall events, streamflows were higher and stronger. This could be because soil moisture content was now increasing, in large part due to the decline in evapotranspiration demand from plants. Crops had reached maturity and in some cases had resulting in less plant interception and evapotranspiration, allowing more runoff to enter the stream. Gully #64 still had insufficient streamflows, too small to measure with the equipment, whereas Boyd Creek, which had experienced a summer with low streamflows contributing to the Eighteen Mile River, had large streamflows after rainfall events by this time of the year.

Fig 2.18: Eighteen Mile River outlet at the Lake Huron shoreline, August 29, 2006

2.7 Field Results

Using the velocities measured during field measurements, resulting streamflows could be calculated for the different rainfall events. Rating curves could then be developed using the field-measured streamflows. These rating curves are crucial to providing a better understanding of the hydrology of the shoreline tributaries.

During the year-long tasks of collecting streamflow measurements, the initial hypotheses were tested. While the hypotheses were based on general thinking about the streams, the hypotheses were also used to determine when different streamflow characteristics would be obtained. Some of the hypotheses, however, were incorrect and adjustments had to be made.

1) ***The largest streamflows would be produced as a result of snowmelt***

An examination of Appendix C illustrates that in March 2006, when snowmelt and ground thaw were occurring, streamflows were the highest. Figure 2.19 provides an example of how much runoff entered the river during these events. While only a couple of days before snowmelt, streamflow and water levels in Boyd Creek were low, snowmelt and ground thaw runoff into the creek significantly increased the streamflow and water levels.

a) **b)**

Fig 2.19: Boyd Creek on a) March 7, 2006; b) March 10, 2006

2) Larger streams will produce larger streamflows

Another anticipated finding that was confirmed was that the larger the contributing watershed, the larger the streamflow. On November 16, 2005, a large rainfall event was recorded providing another opportunity to obtain streamflow measurements for event-focussed analysis. For this event, all cross sections were established and streamflow measurements successfully obtained. The calculations are reasonable, as the values are in a respectable range. The

streamflow measurements indeed correspond to the size of the tributary watersheds, with Nine Mile River having the largest streamflow, followed by Eighteen Mile River, Kerry Creek, and Gully #65 having the smallest measurable streamflow. Gully #64 had very minimal streamflow, immeasurable with the measuring apparatus. This pattern continued during the year.

3) Very low summer streamflows

As illustrated in Table 2.6, the summer months (in the middle of the farming growing season) would produce the lowest event streamflows.

Table 2.6: Streamflow during August 2006 measurements

Date	Streamflow (cms)									
	Boyd Creek	**Eighteen Mile River**	**Kerry Creek**	**Nine Mile River**	**Gully #64**	**Gully #65**	**Gully Creek**	**MD Drain**	**Zurich Drain**	**Datar Miller**
Aug. 1/06	Low Flow	0.0177	Construction	0.33725	Low Flow	0.000336	0.018	Low Flow	0.016	-0.001
Aug 15/06	Low Flow	-0.000645	0.0136	0.268	Low Flow	-0.0004575	0.018	Low Flow	0.006	-0.002
Aug 29/06	Low Flow	0.00104	0.0101	0.3205	Low Flow	-0.000175	0.018	Low Flow	0.000	-0.005

Note that the negative total streamflow values. That indicated streamflows were still and ineffective, calculating backflow in the stream.

With field measurements of the streamflows and water levels, rating curves could now be developed. It should be noted that there could be discrepancies with the Levelogger measurements. If not weighted down properly, the Leveloggers could move from the original position and if two identical streamflows were taken, the movement of the Levelogger will create a difference between water level measurements. This would effect the development of the rating curve, displaying the same streamflow at different water levels. This could also be created if the Leveloggers were not placed in the original position after downloading the measurements. Information from the Leveloggers was downloaded multiple times over the time of the study, and may have not been returned to exactly the same location of elevation. Even a small change in the location/elevation of the Levelogger would affect continuous streamflow graphs produced when the rating curve for a gauge location was combined with the Leveloggers recordings. Also ponding of water could confuse the Levelogger measurements, but could easily be determined. Under low water conditions, sections of the stream could dry and no water would pass through. Therefore water would pond at the site of the Levelogger and when streamflows were measured, there could be various small streamflows ranging from slightly above 0.001 m/s to ineffective streamflow, but the Levelogger would have point measurements at the same water level.

Each discrepancy could be viewed on the rating curve graph. Similar streamflows should have similar water levels. If the Levelogger was moved during downloading measurements, similar streamflows measured before and after downloading measurements (but not during low streamflow periods) would have a variable difference between water level measurements. Ponding could be located by checking if a range of water level measurements have similar small streamflow measurements. If so, then ponding occurred during those measurements.

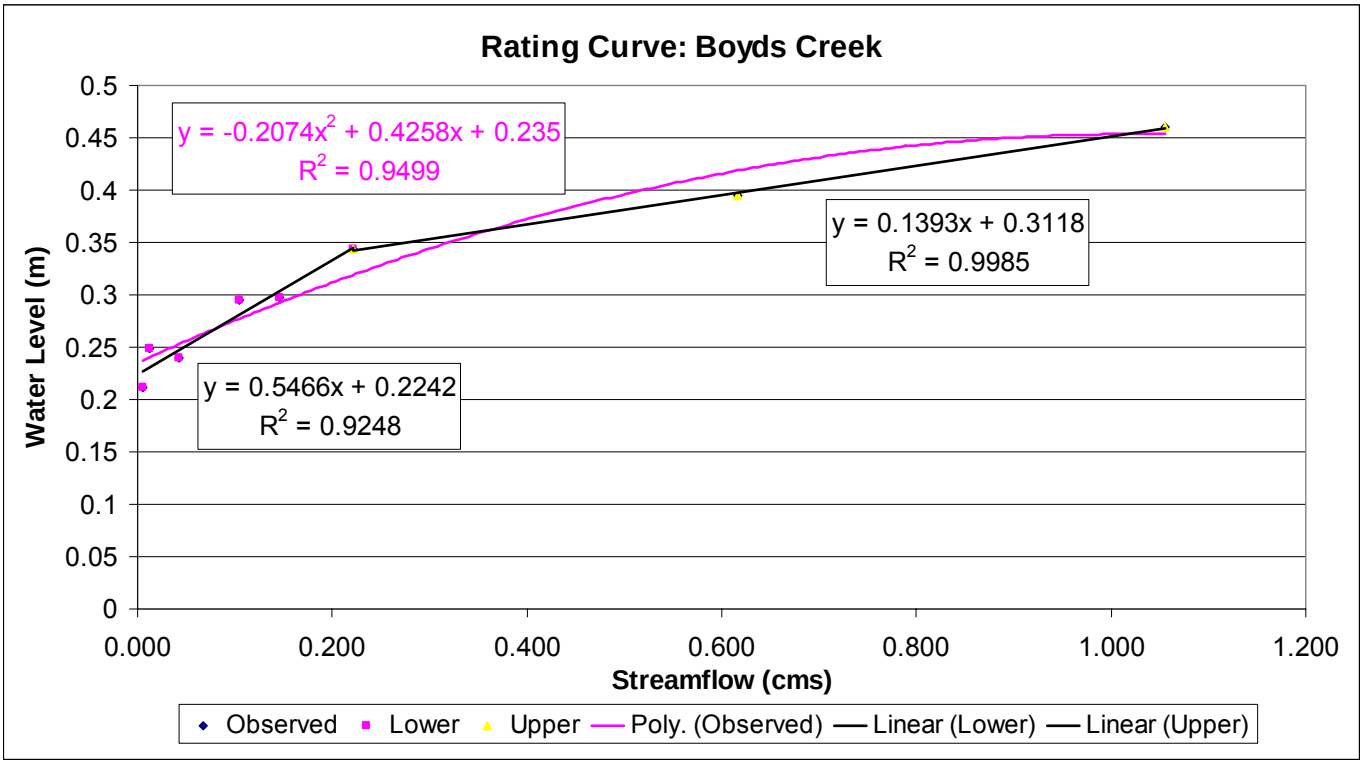
Also note that Leveloggers were dependent for water level measurements. Water levels used for the rating curves would be the Levelogger measurements. Another method to developing a rating curve for a stream would be to take a water level measurement at a consistent location in the stream, near the cross section measured for streamflow. This can be done because similar points along the cross section were used to measure the streamflow, and use the point that consistently had the largest depth. This could be used to check the validity of the rating curve established with the Levelogger measurements.

Initially six tributaries were equipped with Leveloggers, able to measure water levels in the streams. Unfortunately two of the Leveloggers (Nine Mile River and Kerry Creek) were vandalized and no water level data could be obtained. For the remaining four tributaries that did not have the Leveloggers vandalized, data could be obtained. When compared to the measured streamflows at those times, rating curves could be developed. Below are the resulting rating curves:

Boyd Creek

The rating curve for Boyd Creek is presented in Graph 2.1. There were only nine measurable streamflows that correspond to real-time Levelogger measurements. Not a fair representation of the stream, but the nine points consists of wide range of streamflows under different conditions. Measuring at a different location during the mild summer months would have produced a different curve, but one that would have been inconsistent. If more values could be obtained, especially in high water level conditions, a more precise rating curve could be developed. With the values obtained throughout the year, this rating curve represents a basic average of what streamflow would be needed to raise the water level to these heights.

A rating curve was determined with all measured points. Due to the location of the points on the graph, two other rating curve slopes were considered and shown on the graph to assess which the most accurate equations for determining streamflows at certain water levels. The other two rating curve slopes (black lines on graph) are rating curves that divide the observed data into two groups, higher and lower streamflows. This division of the observed data allows rating curve equations that are more accurate to the observed data.



Graph 2.1: Rating Curve for Boyd Creek

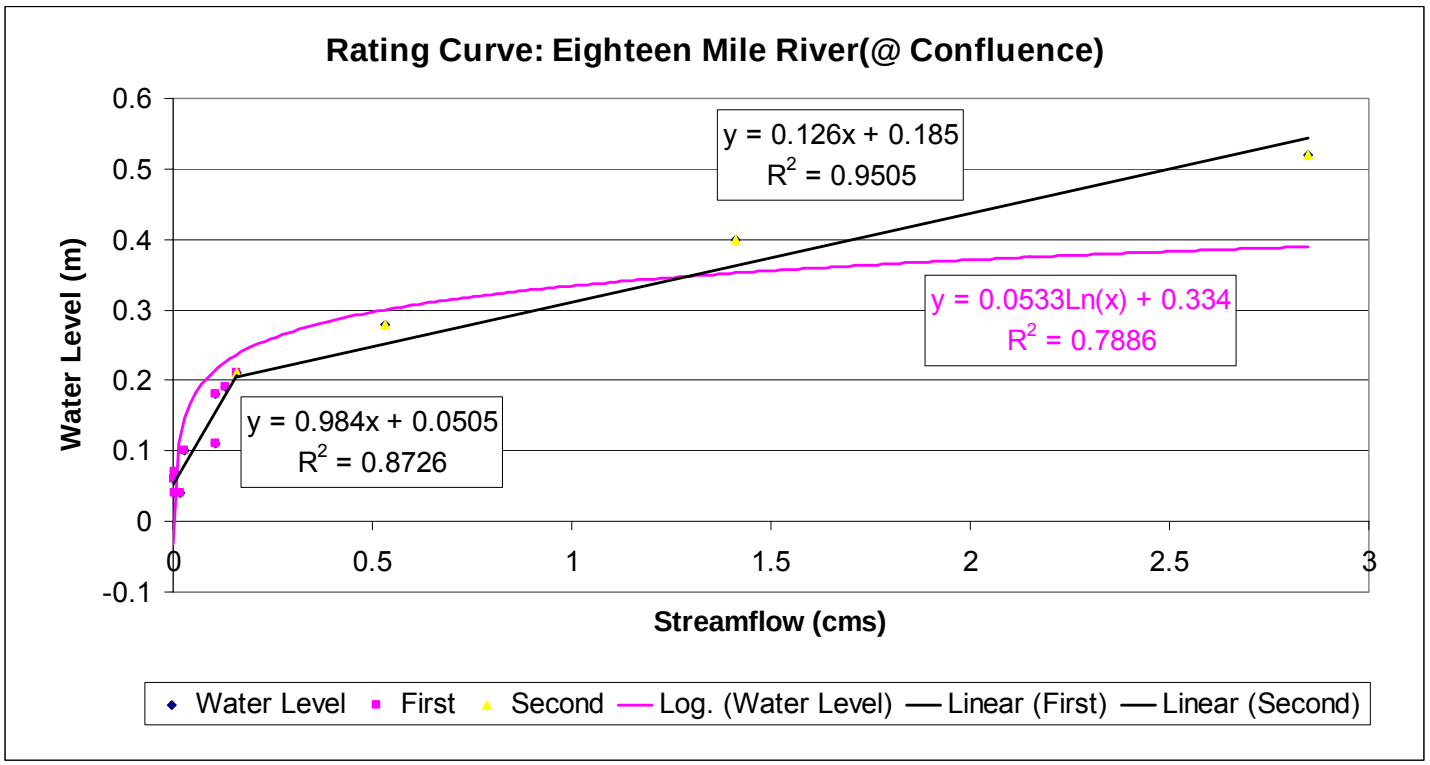
An indicator of how well the resulting rating curve matches the original data points is to check the R-squared value. The closer the R-square value is to 1, the more accurate the rating curve is to the original points. The rating curve based on all measurements (the pink line on graph) was a polynomial line. The rating curve had a high R-square value (R^2 = 0.9499), but there were issues when it appears the polynomial line flattens as the water level and streamflow rises. This would assume streamflows would increase without increases in water levels, and that could not be determined if no high water level and streamflow measurements were taken.

Therefore the rating curve used to compare to the model calculations will be based on the two linear rating curves. The R-squared values are high and covered the range of measurements better than the polynomial. The polynomial line, while with a higher R-square value, does not come close to some of the points.

Eighteen Mile River

The rating curve for the Eighteen Mile River is shown in Graph 2.2, but the graph has been affected by different circumstances. Before the beginning of the project, there were two Leveloggers positioned along the Eighteen Mile River (upstream of the Zion Rd. bridge and at the Hwy. 21 bridge). The Leveloggers

were moved in the winter 2005, as the Levelogger at Zion Rd. was vandalized and the other had to be replaced. A new Levelogger was placed at the Hwy. 21 location, with the initial thought that the water level and streamflow measurements obtained in Nov. 2005 could be used with the water level and streamflow measurements to be obtained in 2006. After reviewing the initial rating curve graph, November 2005 measurements did not correspond to the 2006 measurements. This could be attributed to the new Levelogger not being located or calibrated to the old Levelogger. Therefore the November 2005 streamflow and water level measurements were not included in Graph 2.2 and only twelve point measurements taken.



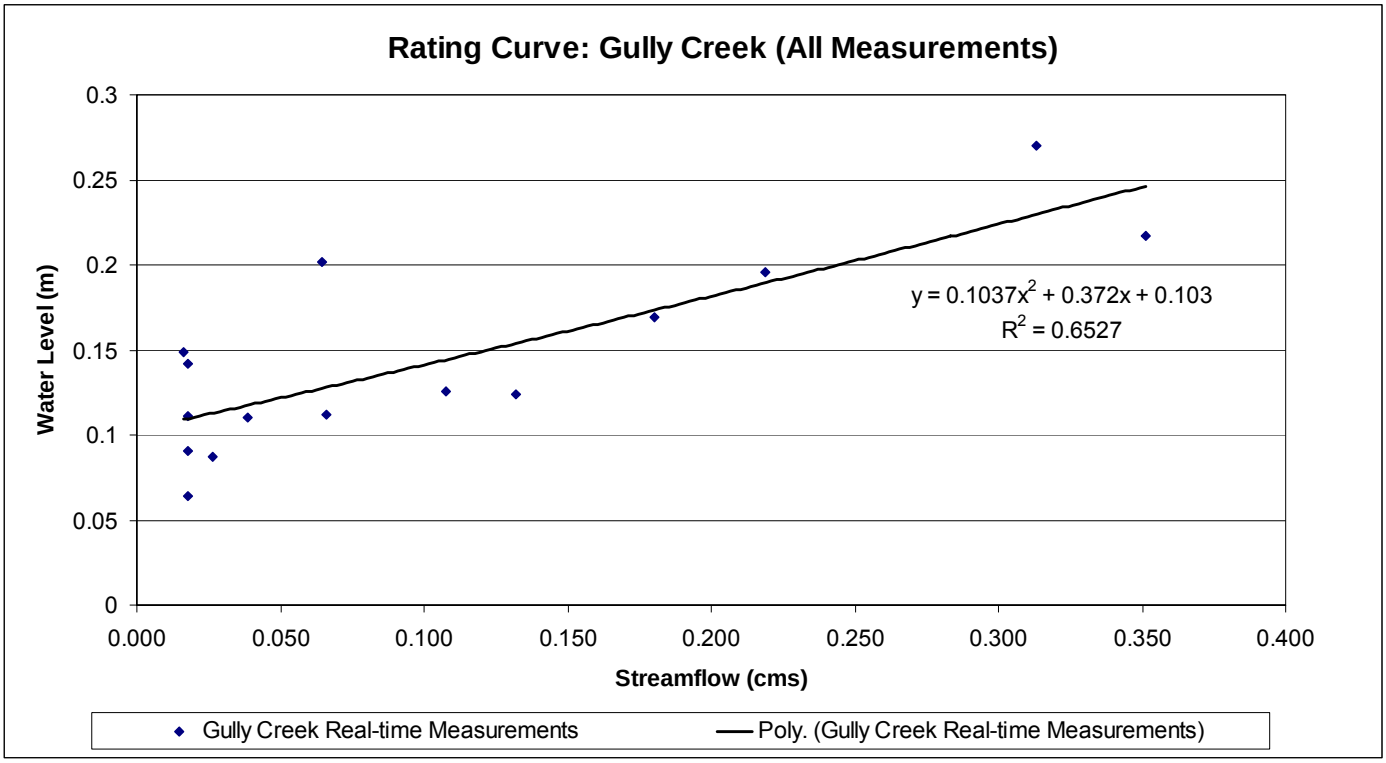
Graph 2.2: Rating Curve for Eighteen Mile River

The Eighteen Mile rating curve was determined the same as Boyd Creek. Different rating curves were developed to for different water level ranges, with 0.21m as the dividing water level. Reviewing the rating curve graph, the two linear rating curves provided the best fit rating curve for the field measurements and will provide the best comparison to the model calculations.

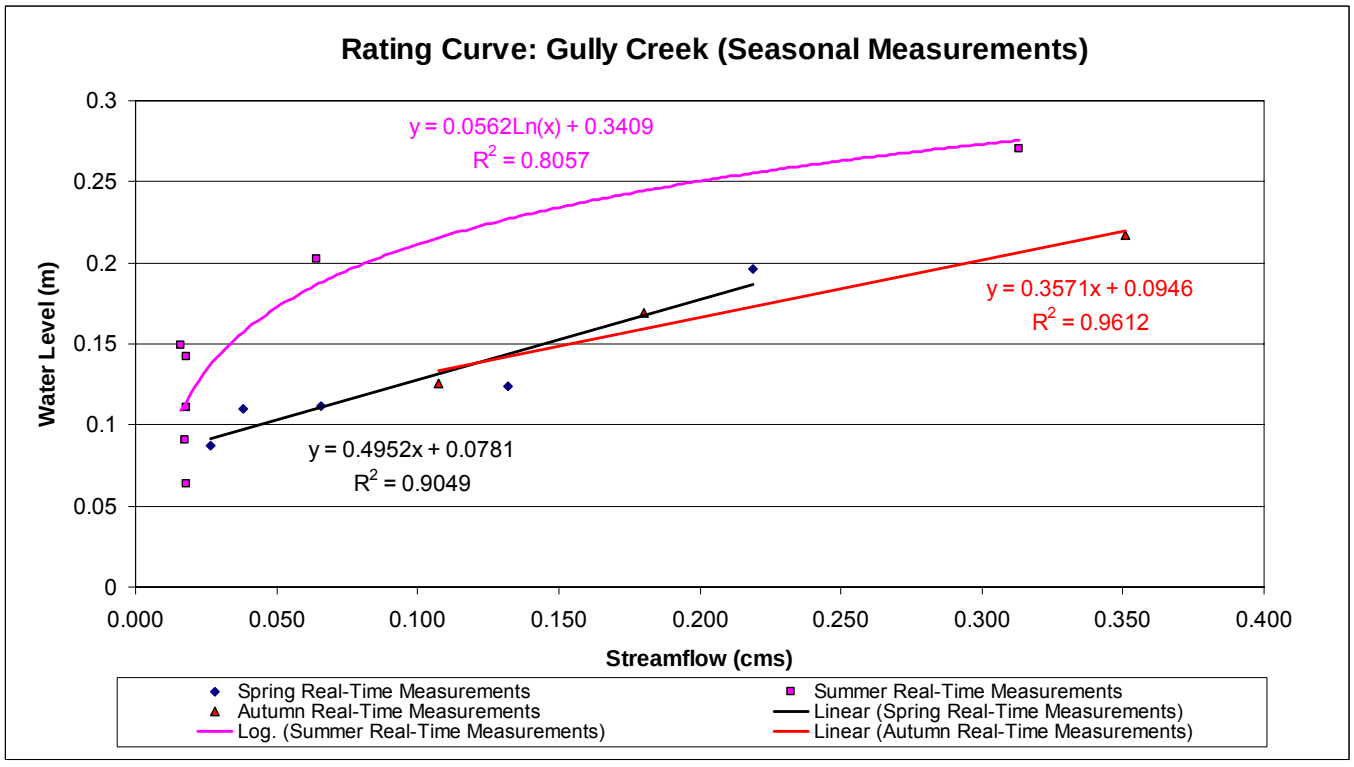
Gully Creek

The rating curve for Gully Creek is presented in Graph 2.3. There were fifteen streamflow measurements to correspond with Levelogger measurements, with measurements starting in early April.

a)



b)



Graph 2.3: Rating Curves for Gully Creek with a) all measurements; b) separated seasonally.

When a rating curve was established for all of the measurements (see Graph 2.3a), the rating curve that was developed appeared weak. With a low R-value and a few outliers, the rating curve appeared to not be a suitable representation of the measurements. To contend with these discrepancies and establish suitable calculations, multiple rating curves had to be developed, based on the three seasonal changes throughout the measuring period (spring, summer, and autumn). High R-values were obtained and the therefore the seasonal rating curves were a better representation.

The seasonal rating curve graph also displays the summer rating curve to be greater than the spring rating curve. This is contrary to the anticipated findings that predicted higher spring streamflow measurements. The snowmelt measurements though were not included in the rating curve because the Levelogger was not in the stream at that time. The highest streamflow event was therefore produced by the July 10th rainfall event, during the summer months.

Unfortunately, there were complications with the Levelogger at the Gully Creek site. The Ministry of the Environment (MOE) noted that the Levelogger had moved from its initial location, probably due to streamflow moving the large steel beam the Levelogger was connected to. Depending on the difference of the stream bottom elevation, this discrepancy could ruin the rating curve.

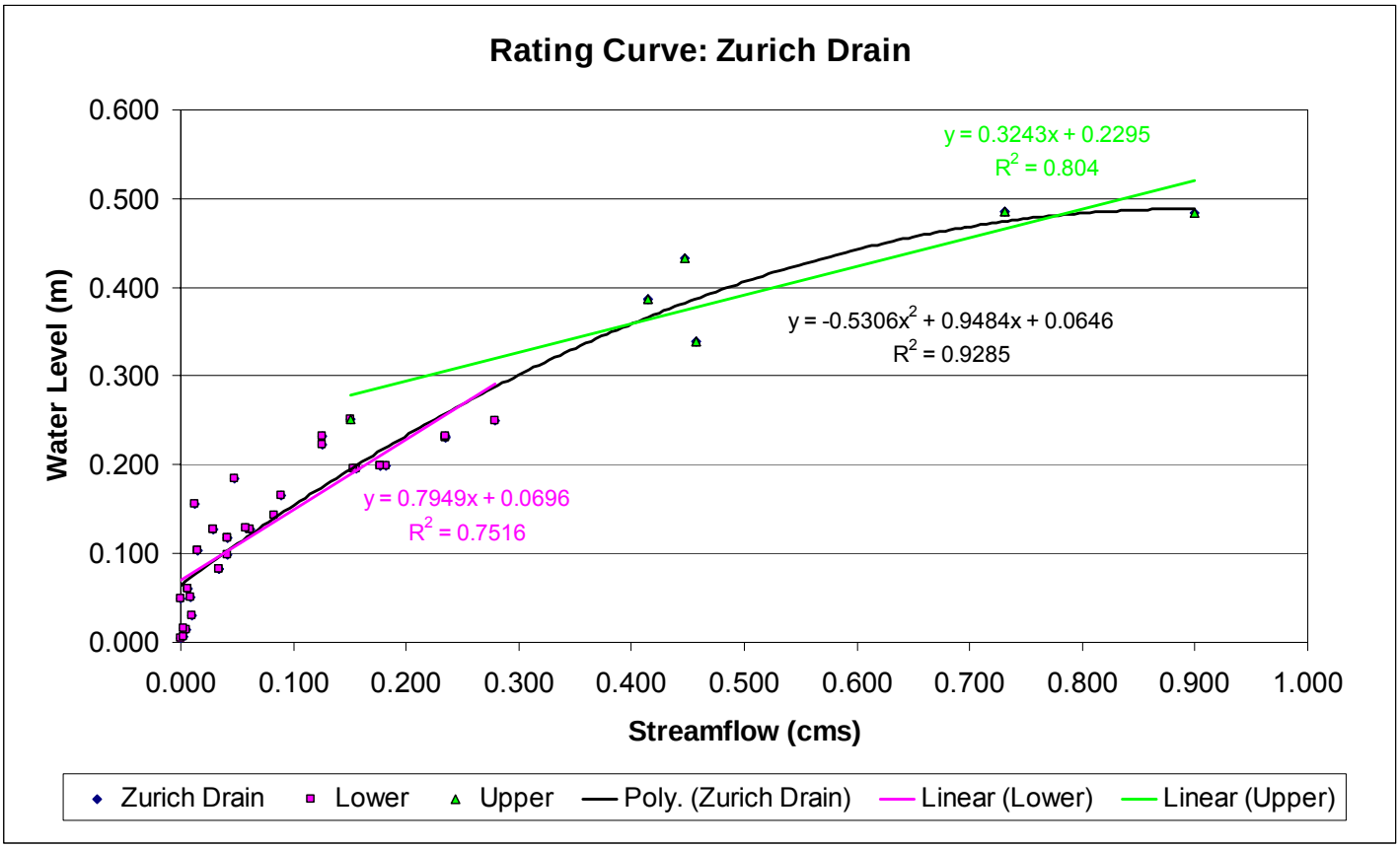
Another discrepancy is the several low summer streamflow measurements that correspond to different water levels. This could be caused by ponding at that section of the stream during low streamflow periods. This is caused when low streamflow caused the stream to dry in areas, separating the stream from the outlet. Various streamflows should have been produced under these conditions, depending on extent of ponding and movement in the water by the person measuring the streamflow.

Zurich Drain

Forty-five data point were collected for this rating curve (more when compared with the other watercourses), due to the additional data collected through the Nutrient Management Project.

Similar to the other streams, the data points were divided to assess if multiple rating curves could develop a better equation to represent the data points. Viewing Graph 2.4, multiple rating curves are not more effective at representing the data points. The singular rating curve representing all data points though appears to be better fit for the rating curve, producing a better R-squared value. The issue with the singular rating curve would be that the rating curve flattens as streamflow increases, and since there were no very high streamflow measurements it is unsure if this is the real scenario for the river. If Figure 2.15c can be revisited, the water levels in the photo would be higher than the highest

measured water level for the rating curve. Therefore the two seasonal equations would be used for model comparison.



Graph 2.4: Rating Curve for Zurich Drain.

While more streamflow and water level measurements created a more complete rating curve, the measurements have to be under various conditions. Streamflow and corresponding water level measurements have to be taken before, during, and after rainfall events, throughout the year. But the majority of these measurements were taken in the summer, when streamflows and water levels were not high and did not vary much. This makes the bottom of the rating curve more established, but the top of the rating curve is less established because there were few measurements at high streamflows. Measurements from the spring runoff could raise the higher region of the rating curve, effecting the rating curve equation.

3 Hydrologic Modeling

3.1 Introduction

A task of this study was to quantify streamflows in selected shoreline tributaries using a hydrologic modeling package. A suitable model could potentially produce a reliable continuous estimate of streamflow through the shoreline tributaries. The intent was to develop a model that would yield hourly or daily predictions of streamflow for select shoreline tributaries.

In order to accomplish this, a modelling program best suited for this task needed to be selected. Criteria were developed that allowed for the selection of software that was best suited to the Lake Huron shoreline, producing the results needed for this study. Once an appropriate modelling package was selected, data were then assembled to use as input to the model. Depending on the modelling program, extensive data acquisition was required. Setup, calibration, and analysis of the selected watersheds could potentially form the basis for developing a hydrologic model for all watersheds along the Lake Huron shoreline.

3.2 Modeling Program Criteria

There are many different hydrologic/water quality models used in practice today and difficult to determine the better modelling program. In an effort to evaluate the different hydrologic/water quality modeling software that might be the most suitable for this project, design-scale modeling issues have to be investigated for the model evaluation. This includes examining:

- What kind of functions does the model implement (surface water, groundwater, water quantity, water quality, environmental, etc.)?
- Can the model be linked to any existing water quality simulation codes?
- Does the model have the ability to utilize GIS data that might be used for project implementation?
- Can the model work reliably in agricultural basins?
- What kind of hydrologic model is adopted and is it of the appropriate level of sophistication for this project?
- Does the model make use of automated calibrated techniques? What is the general sense of accuracy?
- Does the model have the capability to provide sensitivity analysis information?
- What are the data requirements for the model, especially considering existing data?
- What are the expected time step lengths, simulation times and hardware requirements for model operation?

After much deliberation, two models were selected. Those computer modelling programs were **AVSWAT** and **GAWSER**. Those programs were also being considered for Drinking Water Source Protection water budget modeling purposes.

AVSWAT

Soil and Water Assessment Tool (SWAT) was developed by United States Department of Agriculture. A version of SWAT that has been developed to be an extension of the GIS software ARCVIEW, called AVSWAT, was utilized for this project. AVSWAT is based on various agricultural component models, and accommodate variable watershed scales, ungauged and rural watersheds. It is a physically-based distributed-parameter watershed scale model which can divide a watershed into smaller hydrological homogeneous areas based on land use and soil distributions called hydrologic response units (HRU). The program is also computationally efficient, uses readily available inputs and enables users to study long-term impacts of land-use or climatic changes on streamflow[26].

AVSWAT consists of eight major component tools:

(1) Watershed Delineation
(2) Land Use and Soil Definition
(3) Editing of the model Data Bases
(4) Definition of the Weather Stations
(5) Input Parameterization and Editing
(6) Model Run
(7) Read and Map-Chart Results
(8) Calibration tool.

The sub-basin component consists of eight major divisions, which are:

(1) Hydrology
(2) Weather
(3) Sedimentation
(4) Soil Temperature
(5) Crop Growth
(6) Nutrients
(7) Agricultural Management
(8) Pesticides.

AVSWAT was used to perform the preliminary processing on generated sub-basin topographic parameters and model input parameters, edit input data sets, execute simulations, and display graphical and tabular results. See Appendix B for AVSWAT mapped summaries of the input data.

GAWSER

GAWSER (Guelph All-Weather Sequential-Events Runoff) model is a deterministic hydrologic model based on the HYMO (***Hy***drologic ***Mo***del) format,

[26] Di Luzio et al., 2002

used to predict the total streamflow resulting from inputs of rainfall and/or snowmelt. The model can also be used to estimate design streamflows for floodplain mapping and to test the impact of land use changes on streamflows. GAWSER can operate at variable time steps, dependent on the availability of the meteorological inputs for the selected time interval. Calculations are based on the representation of eight hydrological processes:

- Runoff Estimates and Overland Flow Routing
- Subsurface routing
- Baseflow routing
- Stream channel routing
- Reservoir routing
- Snow accumulation and ablation
- Infiltration
- Evapotranspiration
- Seasonal changes in model parameters, like soil hydraulic conductivity, are specified on a monthly basis for long-term simulated periods.

The advantage of GAWSER over AVSWAT is that GAWSER could calculate sub-hourly streamflow, which was an objective of this project, while AVSWAT could not. As a result, for sub-hourly/event modelling of tributary streamflow, GAWSER was selected as the preferred model for this project.

3.3 Data Setup

Datasets used for the models were prepared using readily existing watershed information, from data sources assembled as part of preparing the Drinking Water Source Protection conceptual water budget and hydrologic modeling tasks. When appropriate, the GIS-based tools associated with AVSWAT were used to develop input parameters for both models. The subsequent sections briefly describe the steps followed in setting up both the AVSWAT and GAWSER models.

Subwatershed Boundaries

Both the main river system and the subcatchment boundary delineations were completed in a GIS environment using the ArcView (version 3.3) extension and graphical user interface for SWAT version 2005 called AVSWAT-X[27]. AVSWAT-X was developed by the SWAT model's development team to assist with creating the required input data files for the SWAT model from existing GIS-based datasets. Output from the GIS-based subcatchment delineation module, which includes summaries of each subcatchment's physical characteristics including its

[27] Di Luzio et al., 2002

drainage area, length of slope, and channel grade, can also be used as the basis for preparing input files for GAWSER.

For the river systems located within the boundaries of the Maitland Valley and Ausable Bayfield Conservation Authorities, no previous computer modelling study existed to act as a reference point for building a new continuous version of a computer hydrologic model. The Drinking Water Source Protection model developed as part of this initiative's water budget study delineated a total of 63, 8 and 123 subcatchments for the Maitland, Nine Mile and MVCA portion of the shoreline respectively, with another 118 subcatchments for the ABCA portion of the shoreline. Where possible, the water budget model identified a subcatchment outlet at the same point in the new source water model as was identified in the old BRFU model so original BRFU basins could be defined as a set of smaller subcatchments used in this modelling effort.

Climate Parameters

It is critical that an adequate and complete set of climate data in the region be available for any hydrologic modelling exercise. The Drinking Water Source Protection project identifed this as being a data for work underlined through that initiative and proceeded to fill this data gap. Schroeter and Associates were commissioned to apply their data filling techniques[28], with the result being a 57 year (1950 – 2006) complete dataset of daily precipitation (rain, snow and snow water equivalent) and daily maximum and minimum air temperature data for several stations across the study region. This data for climate stations nearest to the Lake Huron shoreline area formed the basis for preparing the ".pcp" and ".tmp" climate files needed to drive the SWAT model for this study[29].

Meteorological inputs can vary significantly across a watershed. If rainfall observations from individual summer thunderstorms events were mapped, more variability could be seen across a region. Fortunately, SWAT and GAWSER accept inputs simultaneously from more than one meteorological station. The climate stations used to obtain climate data along the shoreline were located in Goderich and Lucknow. While both AVSWAT and GAWSER handle multiple climate stations in a different manner, the net effect is the same. For AVSWAT, users can enter the geographic coordinates of each station for which data are available, with the assumption that subcatchments that fall closest to the station will experience the same meteorological conditions as were observed at that station. GAWSER uses the concept of a zone of uniform meteorology, or ZUM.

The manual rainfall collection stations at Port Albert, ACW garage, and along the ABCA shoreline were found to be inconsistent and unreliable at providing precipitation data. The rainfall inlet would fill with debris and birds would be attracted to sitting on the stations, leaving droppings. The model was initially

[28] Schroeter et al., 2000a and Schroeter, 2005
[29] Di Luzio et al., 2002

developed using data collected by the two manual rainfall collection gauges, but large discrepancies were discovered between the field measurements and model calculations. Once updated 2005 and 2006 climate parameters were produced for the Lucknow and Goderich climate stations, better calculations were achieved and the manual rainfall collection station data were not used.

Soil and Land Use Parameters

Soils and land use within a drainage area have a major influence on the runoff and infiltration characteristics of the region, and is therefore critical information required by the hydorlogical model. The provincal digital soils layer was used, obtained from the Ontario Ministry of Agriculture, Food and Rural Affair's Geomatics Service Centre[30]. The layer is a digitally stiched version of the set of soils maps and associated soil map units that have been prepared over a period of approximately 75 years for each county in the province, with a datafile that accompanies this GIS soils layer to more fully define each soil map unit.

The land cover GIS layer used was the digital version of the 1983 OMAFRA agricultural resource inventory (ARI) mapping. This mapping identifies cropping systems or rotational systems being applied to the landscape instead of specific crops present at the time of mapping. A general comparison of the 1983 mapped systems to the current field crops suggest cropping patterns have remained reasonably stable across the study area over the past 20 years. It is important to note that approximately 1/3 of the land was observed to be under some form of conservation tillage practice.

The soil and land cover data assembled for the study area were then used as the basis for defining the "hydrologic response units" (HRUs) within each subcatchment. HRUs defined for agricultural lands typically considered the 5 different categories of soil types (A,B, C, D, organic). In some cases, however, if one or more soil types were not present or if a particular soil type covered a very small fraction of the entire subcatchment, then this soil category was ignored and a more dominant soil group present in the subcatchment was further divided into two different HRUs on the basis of the type of agricultural land cover present. Perennial crops such as hays and pastures were considered to be one category of agricultural land cover while annual crops such as small grains, corn and beans were considered as another broad agricultural land cover category.

The digital soils data and land cover data were overlaid using the tools provided in AVSWAT-X. AVSWAT-X automates the process of identifying and tabulating the set of unique landcover/soil combinations present within the subcatchment, and provides the option of limiting HRU definitions for a watershed to the domininat soil/land cover combinations or restricting the number of HRUs generated to only those soils and land covers that meet certain user-defined thresholds of area within the subcatchment. All possible HRUs were identified

[30] OMAFRA, 2005

using AVSWAT-X, and the sensitivity of restricting soil and land cover combinations to certain thresholds was assessed as part of the sensitivity analysis. To complete runoff hydrograph (overland and channel flow) calculations, both the GAWSER and SWAT models need input beyond just the HRU descriptions to further characterize each subcatchment. This additional data includes the drainage area, a representative length (L) and width (W) of the subcatchment, as well as the slope of the overland flow paths and main and tributary channels.

GIS-related tools associated with AVSWAT-X were used to determine values such as subcatchment area (A), flow length (L) and slope for the GAWSER model. GAWSER also requires an estimate of subwatershed width to determine overland routing parameters required in the area/time versus time method of overland flow estimation. Other factors which GAWSER needed to characterize subwatershed included the overland flow basetime factor (FTB), the groundwater factor (GWFACT), and recession constants needed to define outflows from subsurface and groundwater storage from the subwatershed (KGW and KSS). There were obtained from values used in previous studies[31].

Stream Channel Parameters

Stream channel data are needed to route the overland runoff water that reaches the stream system through the watershed channels. Model users are asked to enter a value for Manning's "n" for both overland and channel flow. In channel flow, water storage and its influence on flow rate is also considered, making it necessary to supply channel cross-section information. It was not possible to obtain field-measured or detailed cross-section data for all main channels in each subwatershed or channel routing element. Therefore, some of the available observed sections were also used to represent sections at other points in the modelled watersheds if those sections were believed to be representative of channel at the point being described. When no measured data were available at all, representative sections were derived from geomorphic relationships.

3.4 Comparison to Field Measurements

An understanding of the hydrologic functions of the shoreline watersheds could be obtained with the completion of field measurements and modelling. Several anticipated findings were developed, creating assumptions that could be expected in the field and computer modelling. The model will need to be compared to the field measurements to validate. If the model can imitate measurements obtained in the field, a system to analyze the hydrology of the shoreline watersheds could be developed and be used to help identify times and amounts of water and nutrient transport to Lake Huron.

[31] Schroeter et al., 2006a,b,c

The method used compared hourly and daily model streamflow calculations with measured daily streamflow determined using a rating curve developed from the observed measurements. Using the streamflow measurements and the Leveloggers placed in the stream to obtain water level measurements at the time the streamflow measurements were taken, rating curves could be produced for the selected streams. Unfortunately, the Leveloggers for Kerry Creek and Nine Mile River were vandalized and water level measurements could not be obtained. An equation, representing the best-fit line that averages the points on the rating curve, can be arranged to solve for hourly streamflow (Table 3.1), which would utilize the recorded water level data, and be used to compare with the model streamflow calculations.

Table 3.1: Rating Curve equations.

Tributary	Rating Curve Equations		
	Rating Curve Range of Applicability	**Original Equation**	**Streamflow Equation**
Eighteen Mile River	0 to 0.205 m	y = 0.984x + 0.0505	$x = \frac{y - 0.0505}{0.984}$
	0.205 m to 2.848 m	y = 0.126x + 0.185	$x = \frac{y - 0.185}{0.126}$
Boyd Creek	0 to 0.344 m	y = 0.5466x + 0.2242	$x = \frac{y - 0.2242}{0.5466}$
	0.344 m to 1.055 m	y = 0.1393x + 0.3118	$x = \frac{y - 0.3118}{0.1393}$
Gully Creek	Spring	y = 0.4952x + 0.0781	$x = \frac{y - 0.0781}{0.4952}$
	Summer	y = 0.0562Ln(x) + 0.3409	$x = 0.00232082e^{17.7936y}$
	Autumn	y = 0.3571x + 0.0946	$x = \frac{y - 0.0946}{0.3571}$
Zurich Drain	0 to 0,251 m	y = 0.7949x + 0.0696	$x = \frac{y - 0.0696}{0.7949}$
	0.251 m to 0.899 m	y = 0.3243x + 0.2295	$x = \frac{y - 0.2295}{0.3243}$

A method to investigate the accuracy of the model's streamflow estimates the field measured values (determined measurements) is by using the Nash-Sutcliffe Efficiency Coefficient. The Nash-Sutcliffe Efficiency Coefficient is used to measure the predictive strength of a hydrological model. It is defined as:

Equation 3.1

$$E = 1 - \frac{\sum_{t=1}^{T} \left(Q_o^t - Q_m^t\right)^2}{\sum_{t=1}^{T} \left(Q_o^t - \overline{Q_o}\right)^2}$$

Where: Q_o is the observed discharge

Q_m is the model discharge
Q^t is the discharge at time t.

The Nash-Sutcliffe Efficiency Coefficient can range from 1 to -∞. The closer the model efficiency is to E = 1, the more accurate the model is. When the efficiency is closer to 1 (E = 1), the coefficient corresponds to a match of modeled discharge to the observed data. When E = 0, the coefficient indicates that the model predictions are as accurate as the mean of the observed data. When efficiency is less than zero, the observed mean is a better analysis than the model.

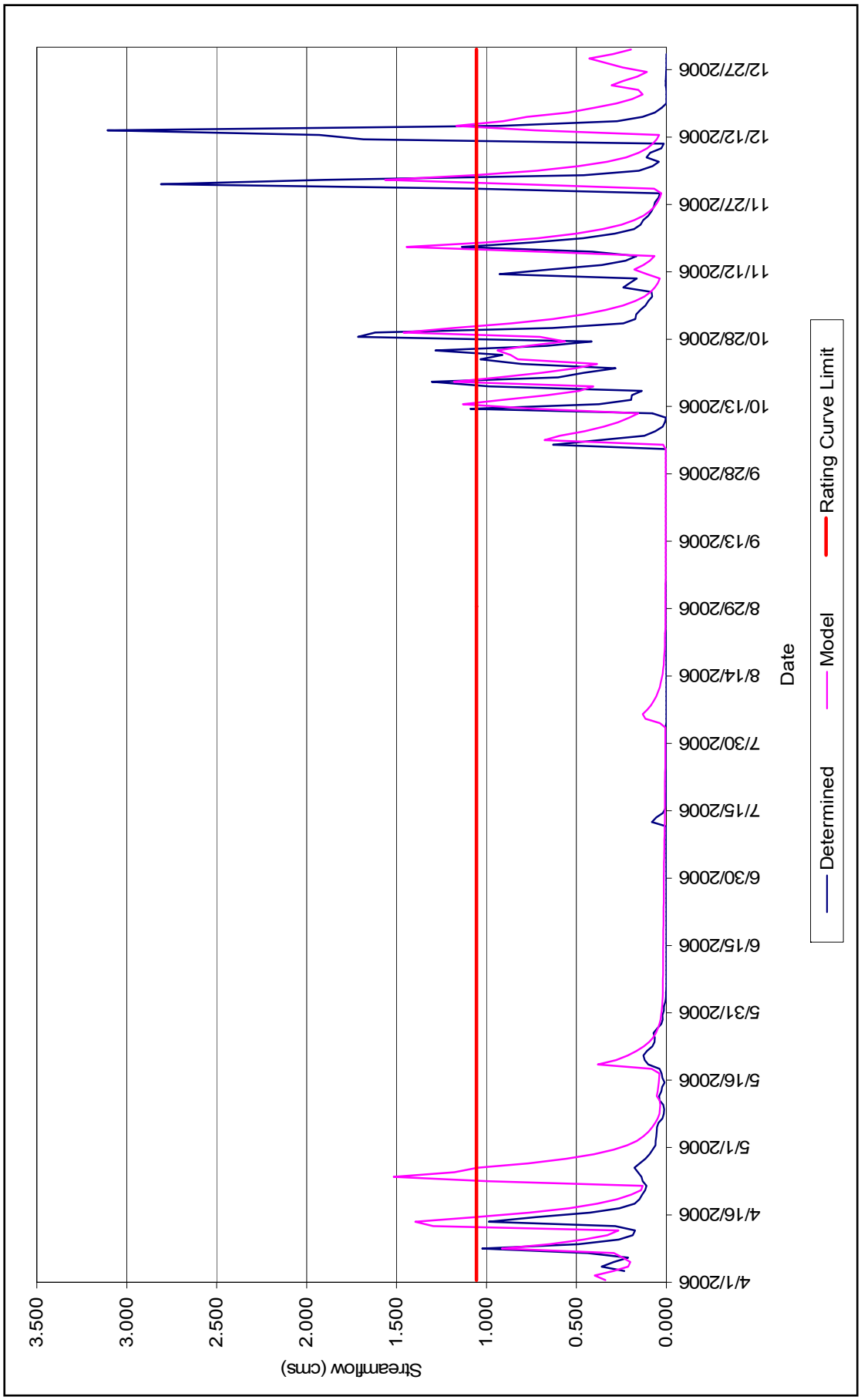
The Nash-Sutcliffe Efficiency Coefficient for the selected streams are in Table 3.2. Reviewing the coefficient values, Eighteen Mile River was a better approximation, while the other streams were inconsistent. The discrepancies though are based within the large streamflow calculations, displaying inconsistent peak streamflows.

Table 3.2: Nash-Sutcliffe Efficiency Coefficient values for the selected streams

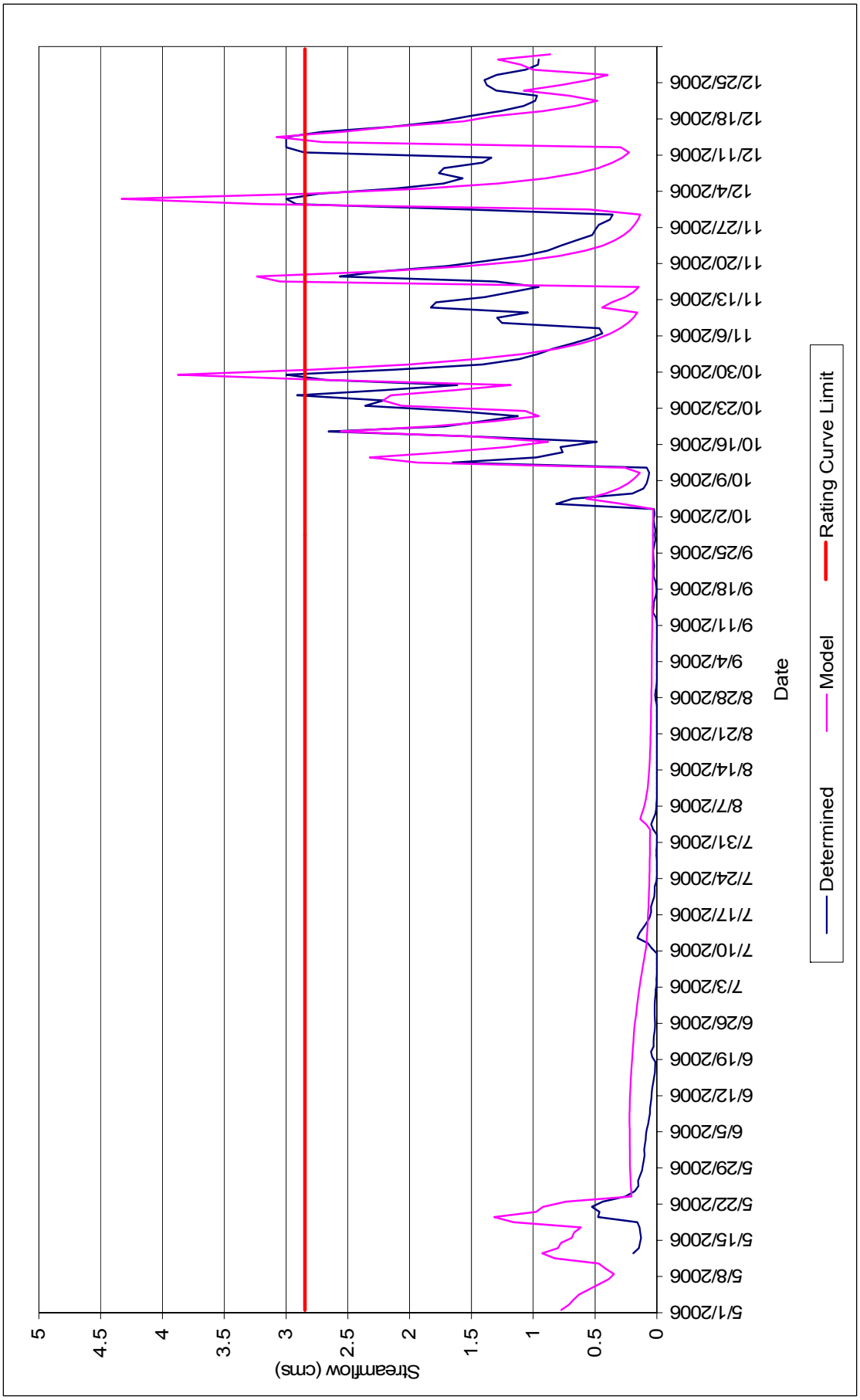
Stream	Rating Curve Limit (m)	Nash-Sutcliffe Efficiency Coefficient
Boyd Creek	1.055	-0.616
Eighteen Mile River	2.8587	0.689
Gully Creek	0.351055	-2.726
Zurich Drain	0.89925	-0.75545

These discrepancies originate from the rating curve calculation, which measured points to a certain water level and the rating curve only considers the determined measurements. Water levels though in the autumn surpassed the rating curve limitations and streamflow values were extrapolated over the highest streamflow measurement with a measured water level. This is not standard practice for rating curves, but performed to determine the projection of the rating curve rating curve. The Nash-Sutcliffe calculations also did not consider the projected determined measurements above the rating curve limit.

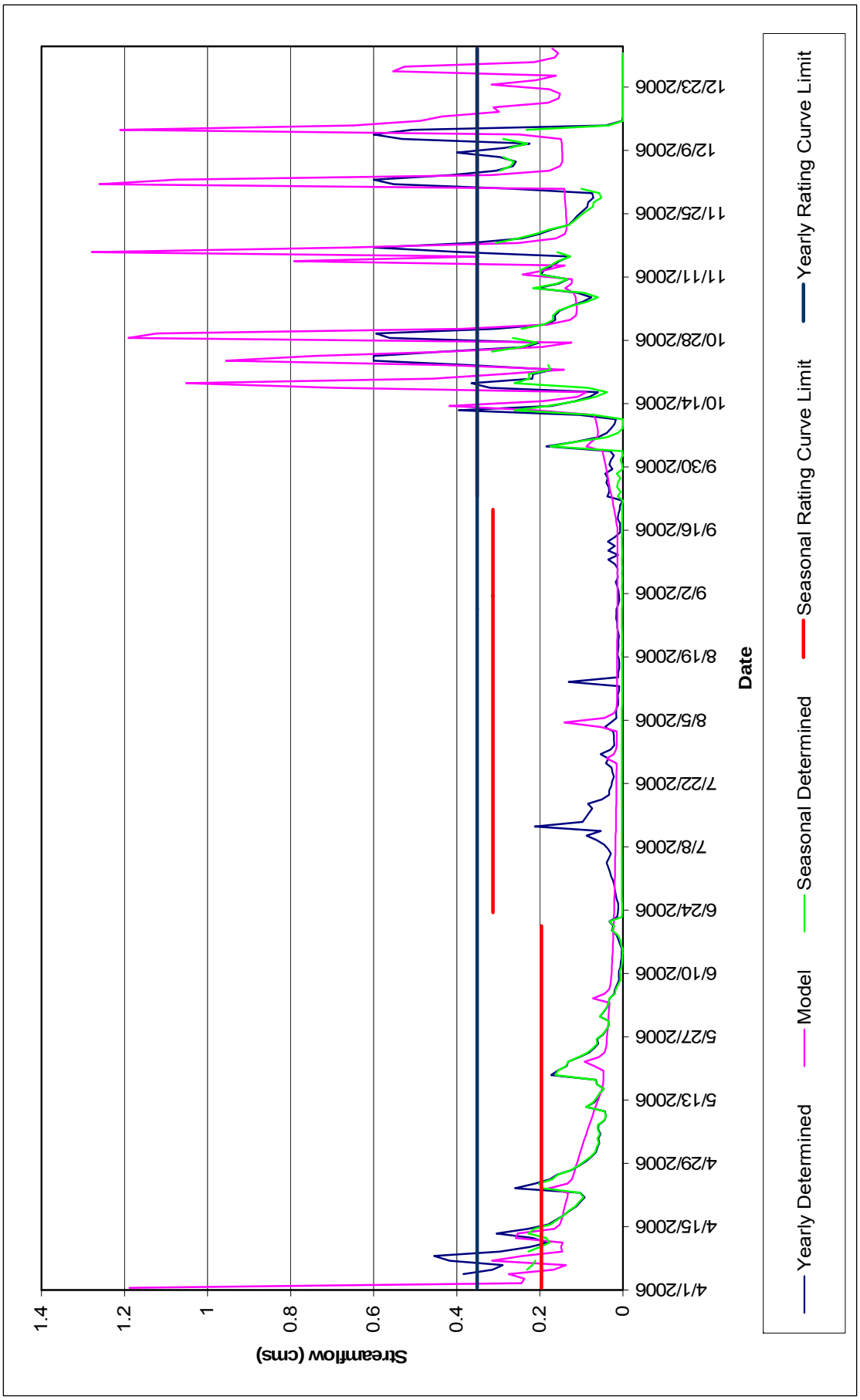
Reviewing Graphs 3.1 to 3.4, which compare the daily measurements for the determined and model data, the determined and model for each stream measurement appear similar. The model calculations have the same general pattern as the rating curve calculations but the model calculations were sometimes disproportional to the determined measurements. GAWSWER, during high precipitation events, overestimated the streamflows for Eighteen Mile River, Gully Creek, and Zurich Drain, while it was the opposite for Boyd Creek. This could be due to the rating curve equation, which does not incorporate high water levels.



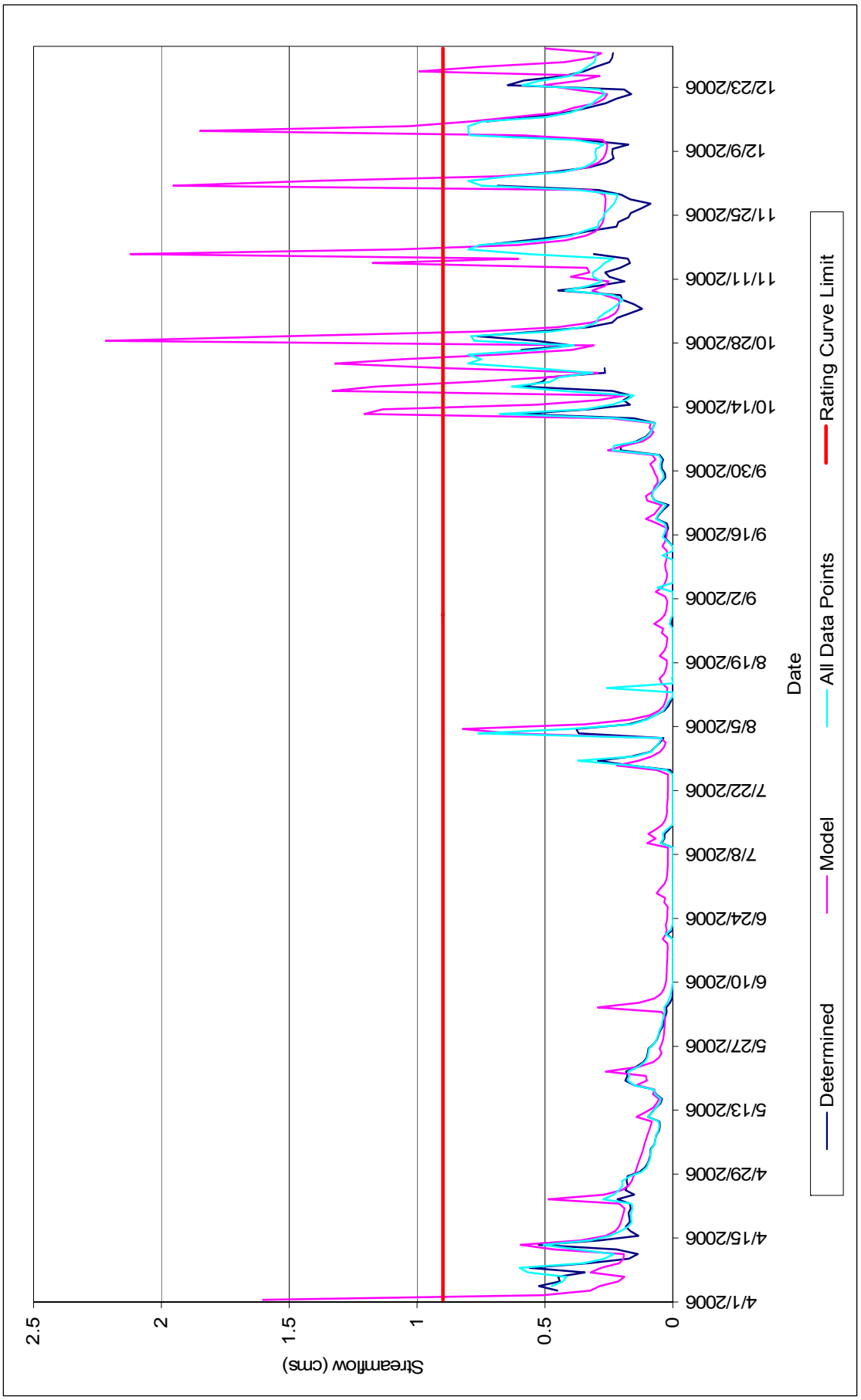
Graph 3.1 Comparing model calculations with rating curve measurements for Boyd Creek.



Graph 3.2 Comparing model calculations with rating curve measurements for Eighteen Mile River.



Graph 3.3: Comparing model calculations with rating curve measurements for Gully Creek.



Graph 3.4: Comparing model calculations with rating curve measurements for Zurich Drain.

The fact that the model calculations and determined measurements do not have identical peak discharges is a reason why the Nash-Sutcliffe coefficient is too low for the streams. In reviewing Eighteen Mile River, the peak discharges appear closer than the other stream, and along with similar patterns, have the best Nash-Sutcliffe coefficient value. Other issues include the model having a delay reaction, at various durations, to the precipitation results. More evident in the Maitland Valley sites, as some of the determined calculations lag when compared to the model calculations. Another issue would be that the model calculations (except for the Boyd Creek) have higher peak discharges than the determined values at very high streamflows (comparable to the stream). Further fine-tuning to the model and measurements at high streamflows would help improve its accuracy with the streamflow measurements, but the model results are sufficient at determining trends in streamflow amounts from tributaries that drain into Lake Huron.

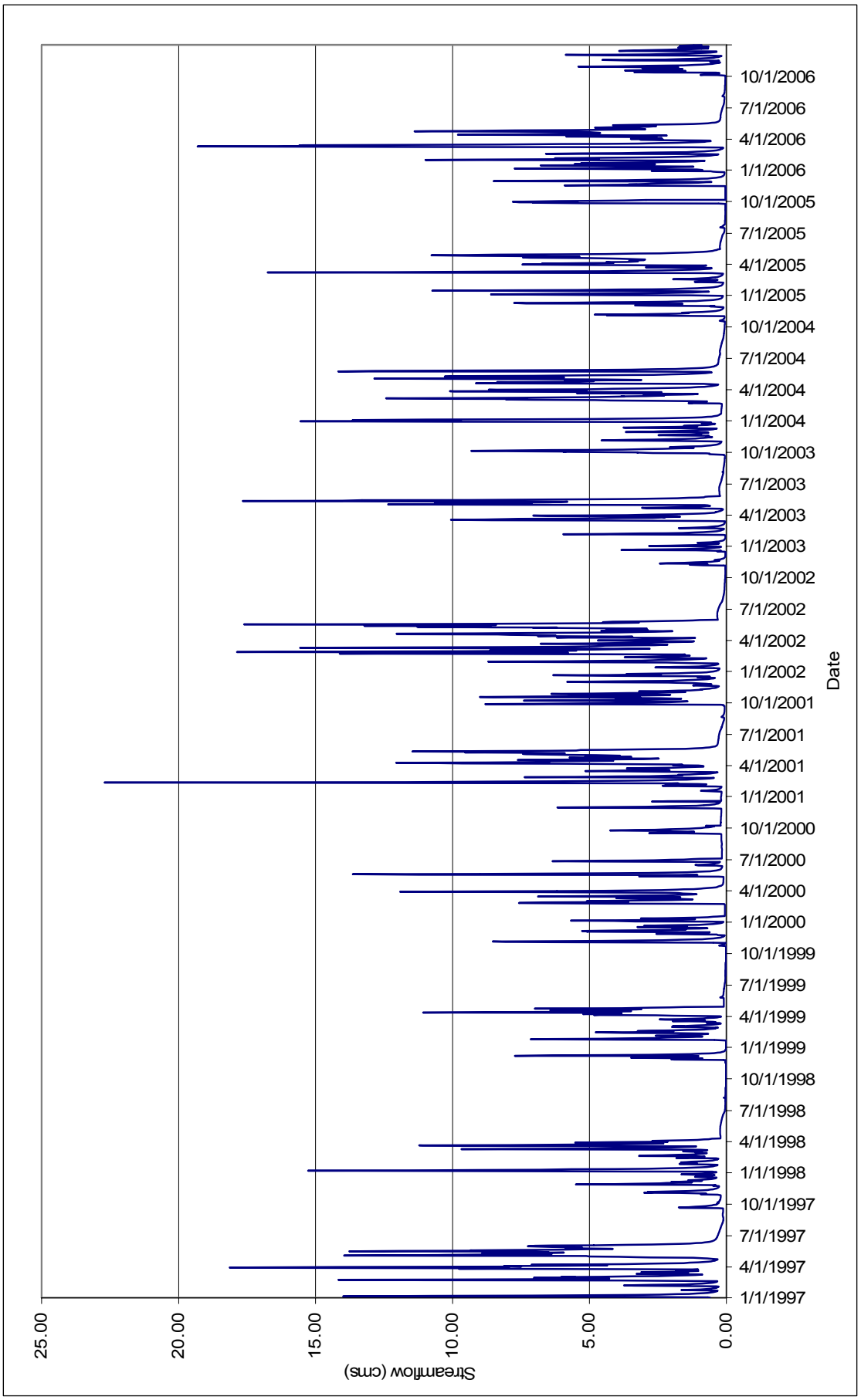
3.5 Output Results

The objective of this project included illustrating the fluctuations that are anticipated for precipitation events and daily tributary discharge patterns, in order to specify how tributaries respond differently and what physical or land use factors affect the responses. Calibrating the ten year and rainfall event models to match real-time measurements were performed to accomplish the objectives and obtain a better understanding of the hydrological functions of the watersheds along the Lake Huron shoreline.

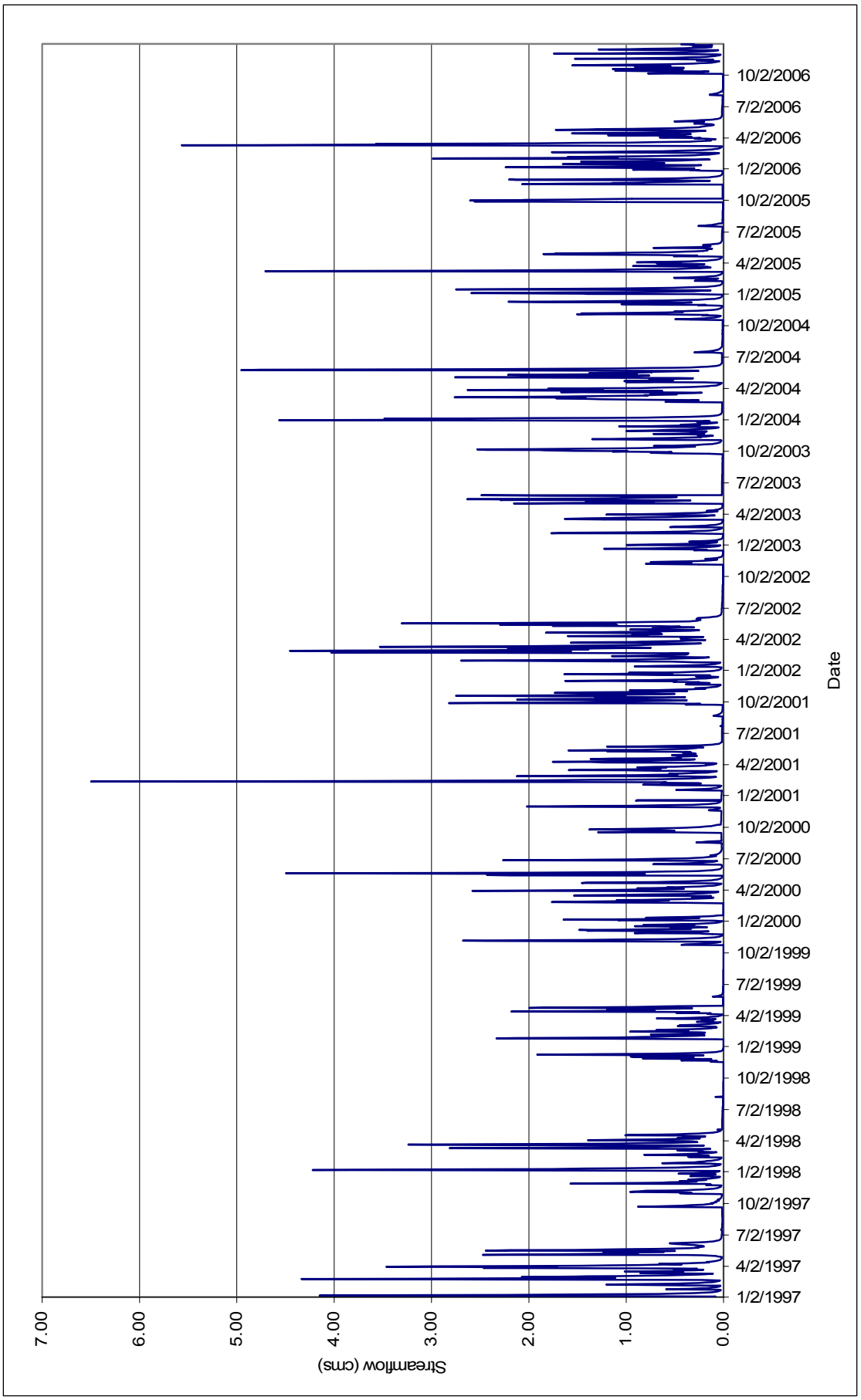
Ten Year Daily Output Model

The Ten Year Daily Output model (see Appendix E) was completed to estimate how streamflows would fluctuate throughout a ten year period (Jan. 1, 1997 – Dec. 31, 2006). A wide range of precipitation events, including heavy rainfall events and periods of drought, and consistent events like the spring thaw would occur over that span of time. Graphs 3.3 to 3.15 represent the Ten Year Daily Output for the selected subwatersheds.

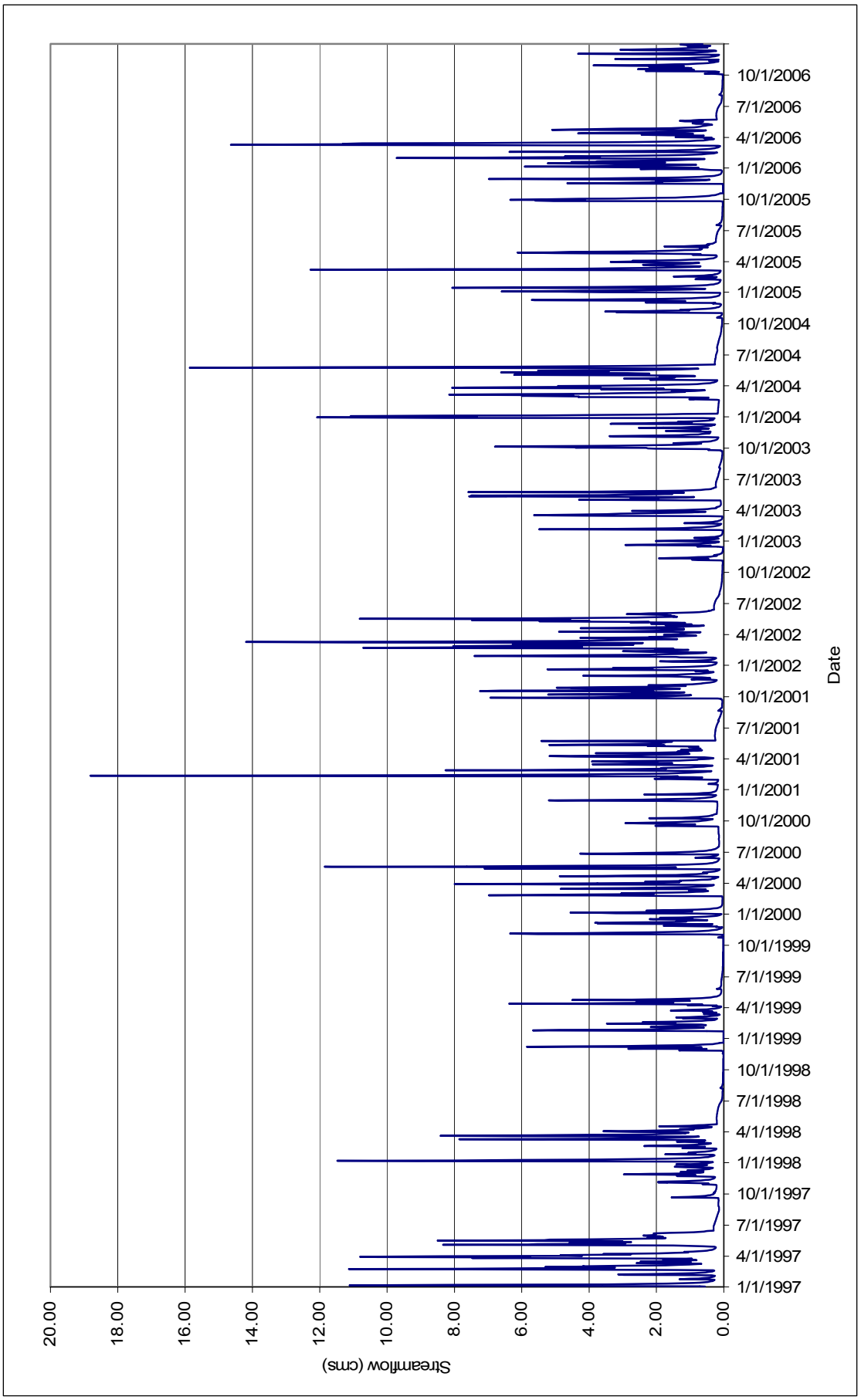
Observing the values and respective graphs, the streams fluctuates seasonally. The peaks on the graphs occurred in the spring months when more rainfall events and in some cases, snow melt, along with the thawing of the soil, led to more runoff entering the streams. Long-term modelled streamflows were also relatively high in the month of January. This could be a consequence of “winter thaw” that can occur in January.



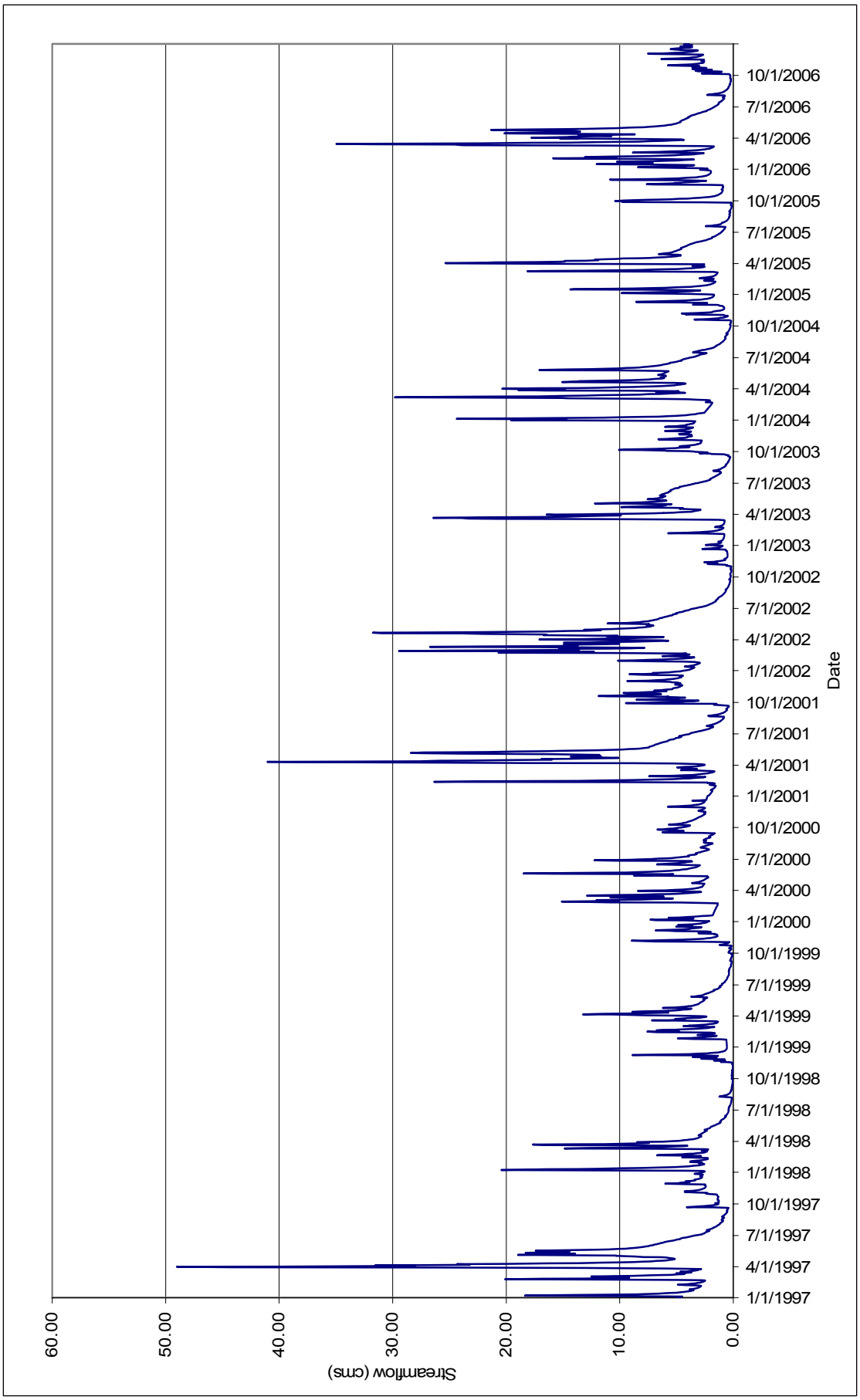
Graph 3.5: Ten Year Daily Streamflow Output for the Eighteen Mile River outlet, modeled using GAWSER.



Graph 3.6: Ten Year Daily Streamflow Output for Boyd Creek, modeled using GAWSER.



Graph 3.7: Ten Year Daily Streamflow Output for the Eighteen Mile River, before the confluence with Boyd Creek, modeled using GAWSER.



Graph 3.8: Ten Year Daily Streamflow Output for the Nine Mile River, modeled using GAWSER.

From late spring to early autumn, streamflows fluctuated randomly with rainfall frequency, duration, and intensities affecting stream response. This indicated that variations of streamflows were due to long periods of drought between rainfall events. The snowmelt and soil thawing would have occurred, and farm field soils in the contributing watershed would have lower antecedent soil moisture conditions and would increase evapotranspiration during this time of the year. Less water is entering the streams and for the rivers to rise, a large rainfall or at least a very intense short duration rainfall, ideally when the ground is close to its limit of saturation is needed. Consecutive rainfall events, and the slow release of groundwater from saturated soil, will also create rises in streamflows.

Locations of low water conditions are evident on the graphs, with the lowest streamflows occurring during the summer months. Fields are growing crops and there is significant evapotranspiration, making the soil dry. When precipitation occurs, the soil and crops will tend to absorb rain water, unless a precipitation event has enough duration and intensity to saturate the ground and providing enough moisture to the crops and ground to runoff into the streams. In short duration, high intensity storms, hydrological active areas close to the streams may also contribute to streamflow, but these areas are relatively small. Note that for 1997 to 2001, the water levels do not reach the same levels as the years following and preceding them. It was especially evident that 1998 and 1999 were very dry years. Historically, all of southern Ontario was experiencing less precipitation, resulting in low water levels in all streams. The creation of the Provincial Low Water Monitoring Program originated from those years of drought-like conditions.

The streamflow patterns are very similar for the larger watersheds, but because of the larger size, the streamflows were larger (see Graph 3.8). Similar trends to the Eighteen Mile River and Nine Mile River occur, as the largest streamflows happened in the spring and January and low water periods occur in the summer months. Lower than usual water levels also occur from the summer of 1997 to spring of 2001. Rises in streamflows correspond to rises in the Eighteen Mile River, indicating that the rainfall events had similar effects on the Nine Mile River streamflows.

The other (and smaller) tributaries measured for this project all have very similar seasonal streamflow patterns with themselves and with the larger tributaries (see Graphs 3.9 to 3.15). At the time of writing, weather data was not available for 2005 from the Goderich weather station to properly model the smaller Maitland Valley sites (Kerry Creek, Gully #64, and Gully #65), but the patterns in streamflow for the years up to 2005 are still evident. All graphs show large streamflows in the spring months, low streamflow periods in the summer, and lower than usual streamflows from the summer of 1997 to spring of 2000. Kerry Creek and Gully #65, similar in size and have significant groundwater

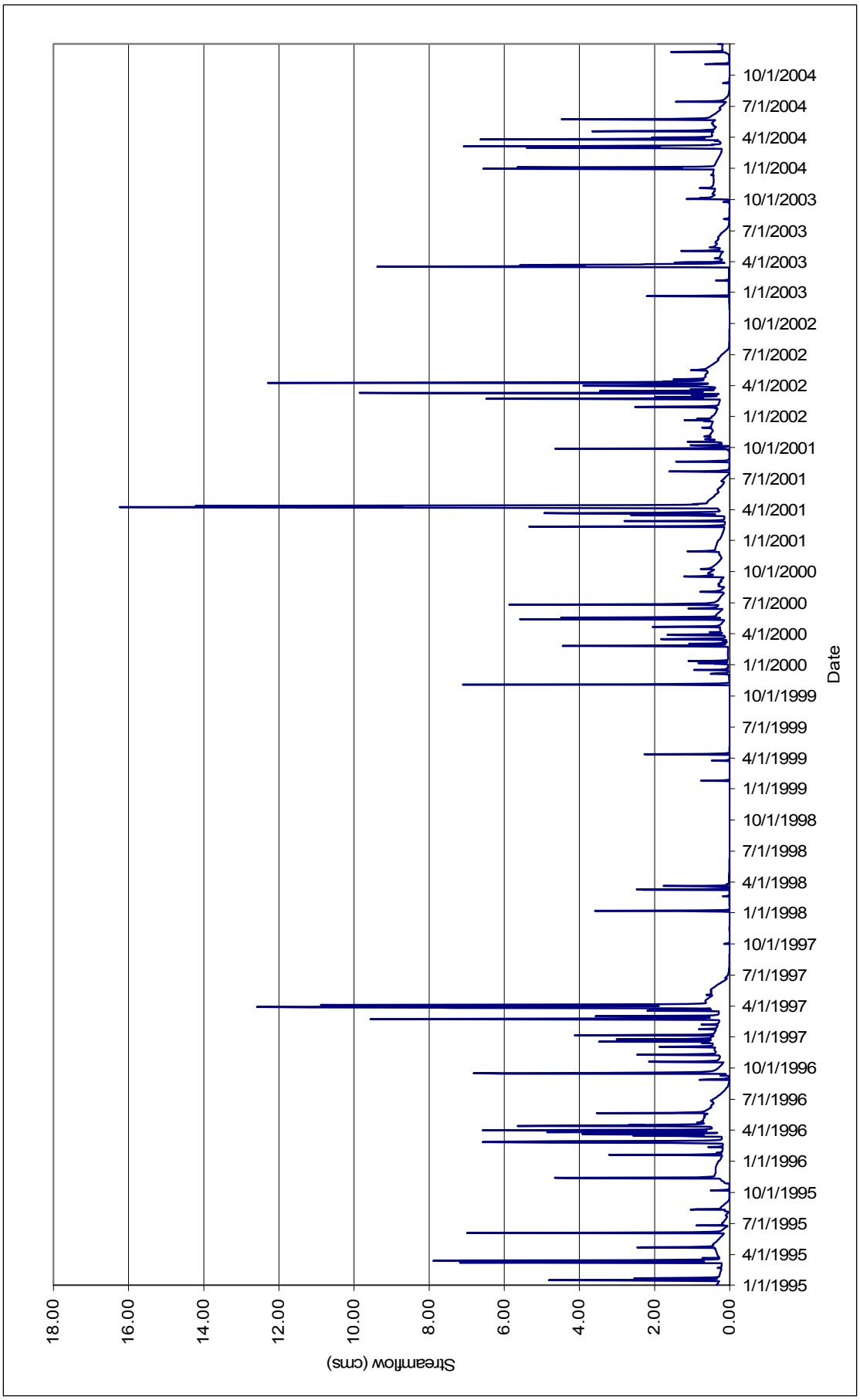
contributions from the Wyoming Marine, have similar increases and decreases in streamflow. Similar patterns are evident in Gully #64 and in all four Ausable-Bayfield CA sites.

For the Ausable Bayfield sites, each of the ten year daily output models had similar patterns (Figures 3.4 to 3.7 and Appendix E), and it is apparent that the streams fluctuate like the Maitland Valley sites. There is an exception though, as the largest singular daily streamflow occurred is due to a rainfall event. In July 2000, areas of Exeter, St. Mary's, Stratford and Woodstock reported severe flash flooding when up to 175 mm of rain was measured over an 8-12 hour period of heavy thunderstorm downpours. The highest 6-hour rainfall amount, 142.0 mm, recorded at Exeter can be compared to the Hurricane Hazel design storm. The return periods associated with the heaviest 2, 6, 12 and 24 hour rainfalls in this extreme event exceeded the 100 year rainfall event[32]. July 2000 produced the largest streamflows during the ten year span, indicating that a large rainfall event (like a 100 year rainfall) could produce spring snowmelt-like streamflows in the shoreline tributaries. However, if you remove the large rainfall event from the calculations, the spring snowmelt has the largest average monthly streamflow. Therefore, the hypothesis that the largest consistent streamflows would be produced as a result of snowmelt was, on average, supported through field observations and model calculations.

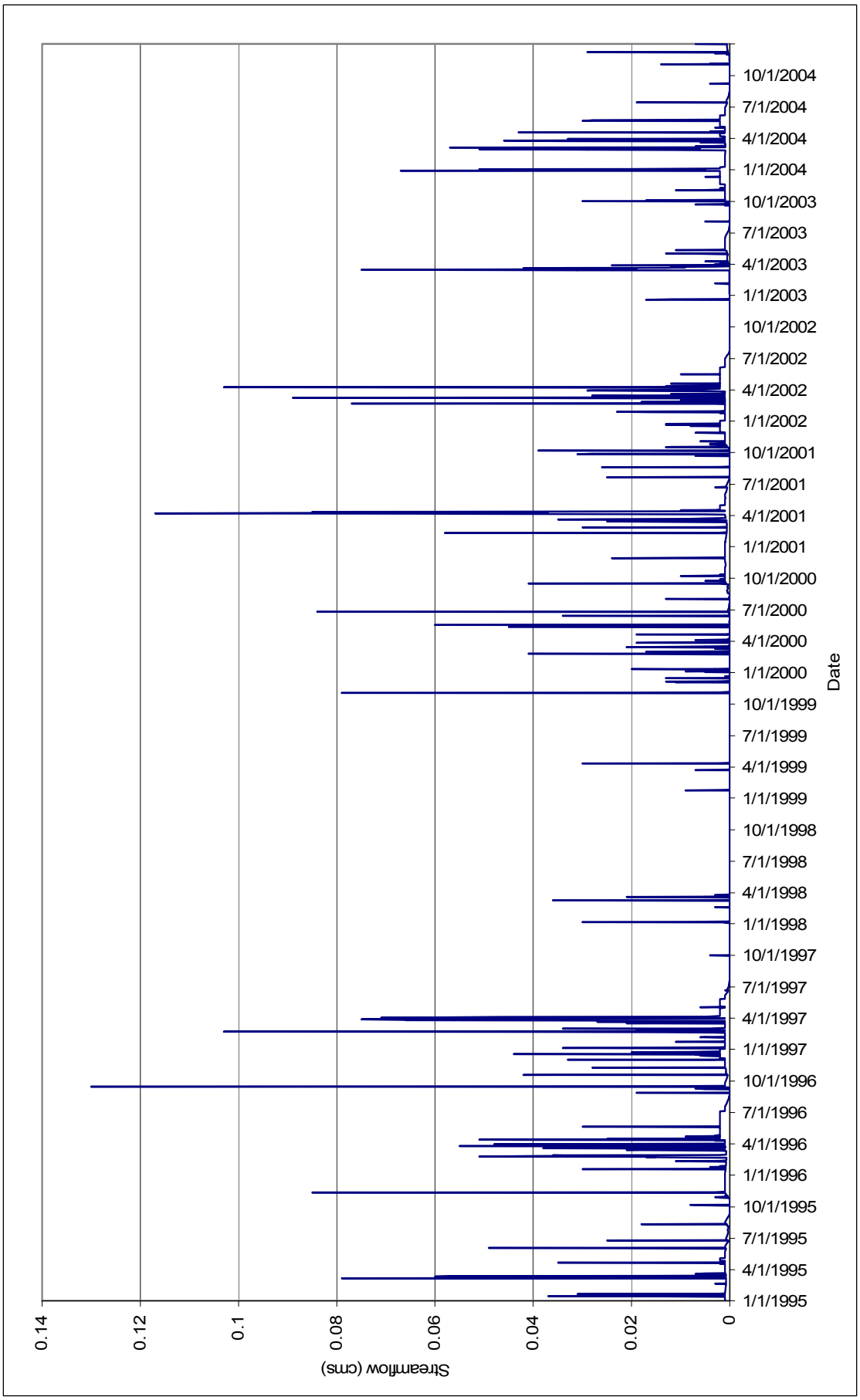
The only selected stream that these patterns were not clear is the model measurements for Gully #64 (see Table AE.16 in Appendix E). Gully #64 though had only surface runoff and tile drainage contributing any streamflow, and depending on the watershed characteristics at the time (soil moisture, farming practices, and evapotranspiration), had less predictable patterns as rainfall event characteristics had more impact on the streamflow when compared to the other tributaries. Autumn rainfall events had a larger effect on the streamflow at Gully #64, which is when crops have been harvested, evapotranspiration is low, and more soil moisture is once again likely to approach saturation given sufficient rainfall. Therefore more runoff and tile drainage could drain into the tributary in the autumn season during a large precipitation. The majority of time though, the stream was dry.

When comparing Boyd Creek and the Eighteen Mile River before the confluence, similar patterns can be seen and correspond to patterns to the Eighteen Mile River at the Lake Huron outlet (Table 3.3). If the volume averages for Boyd Creek and Eighteen Mile River before the confluence were combined, it would be similar to the Eighteen Mile Outlet volumes. There is a slight difference between the values, possibly due to the distance between the confluence and the outlet. This is more evident at high streamflow periods, the spring season particularly, when there will be more contributing runoff between the confluence and outlet.

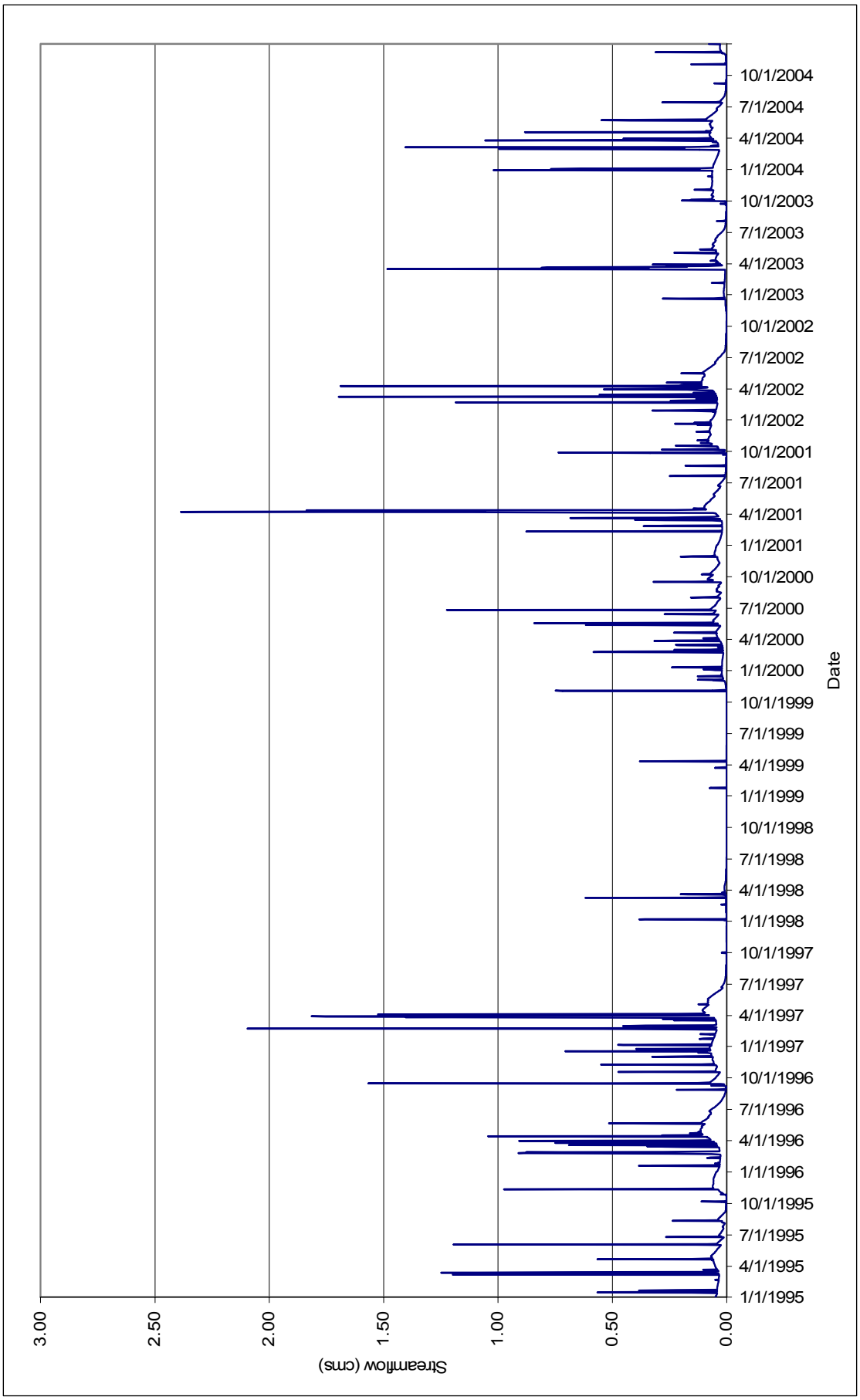
[32] Klassen et al, 2003



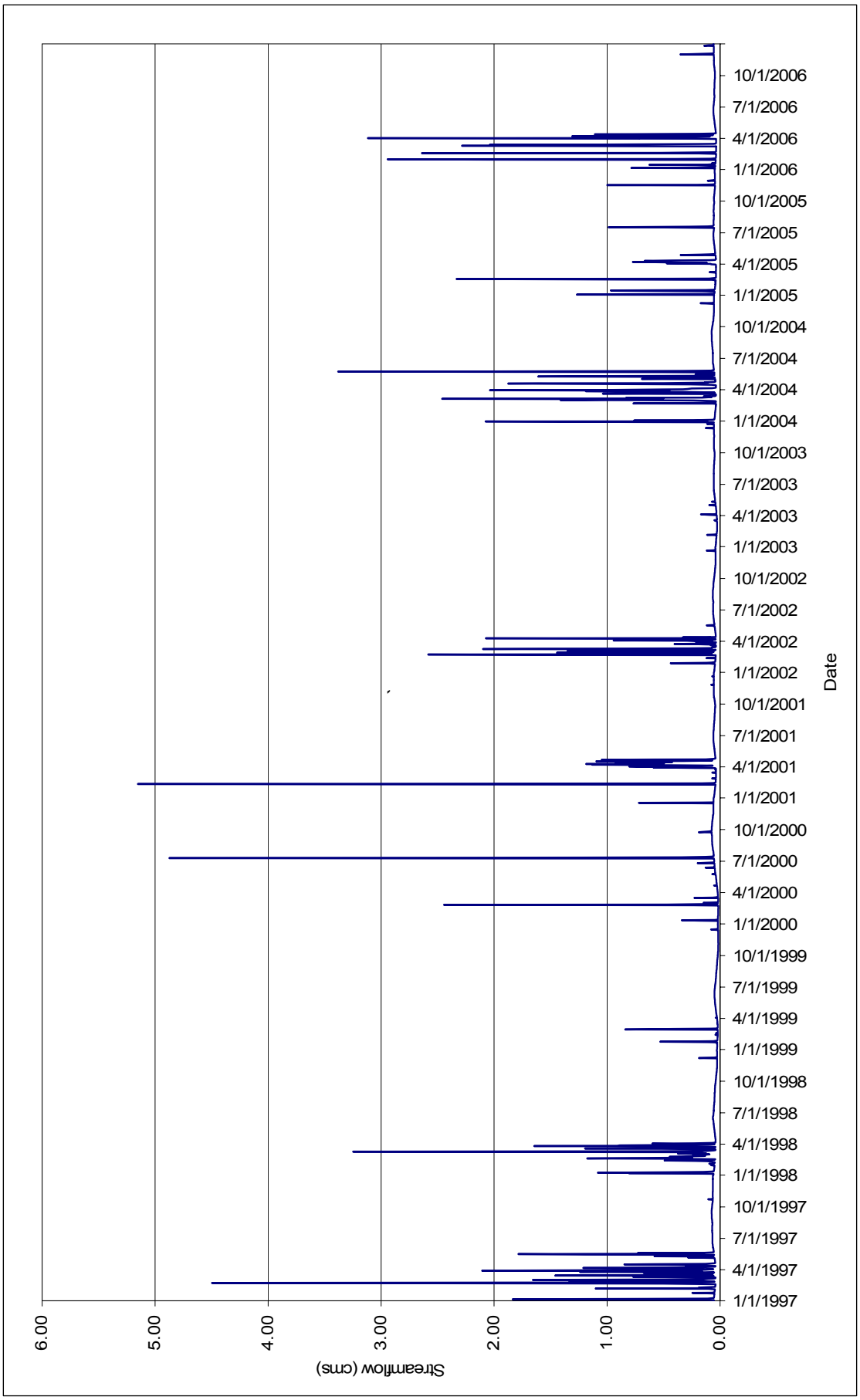
Graph 3.9: Ten Year Daily Streamflow Output for Kerry Creek, modeled using GAWSER.



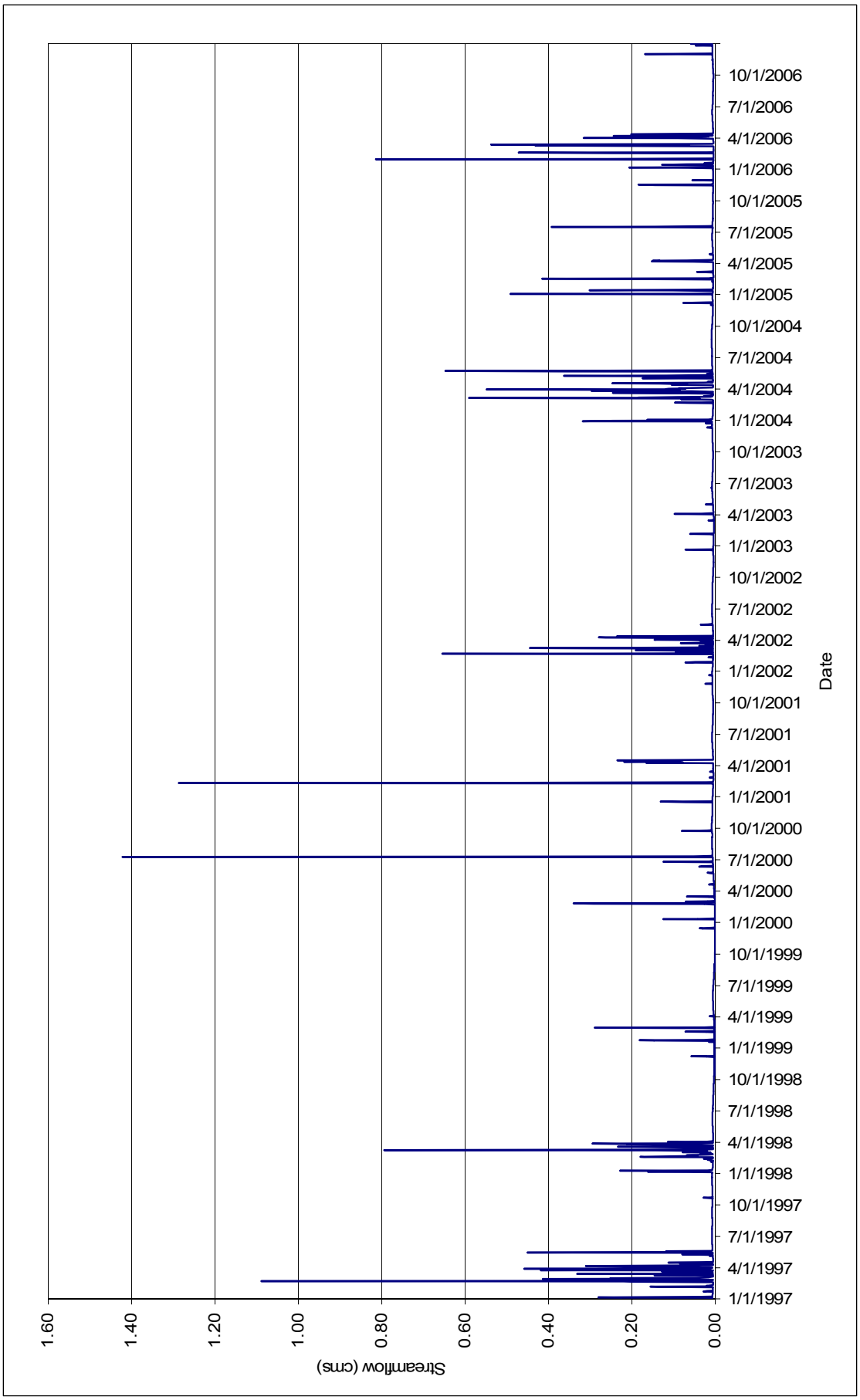
Graph 3.10: Ten Year Daily Streamflow Output for Gully #64, modeled via GAWSER.



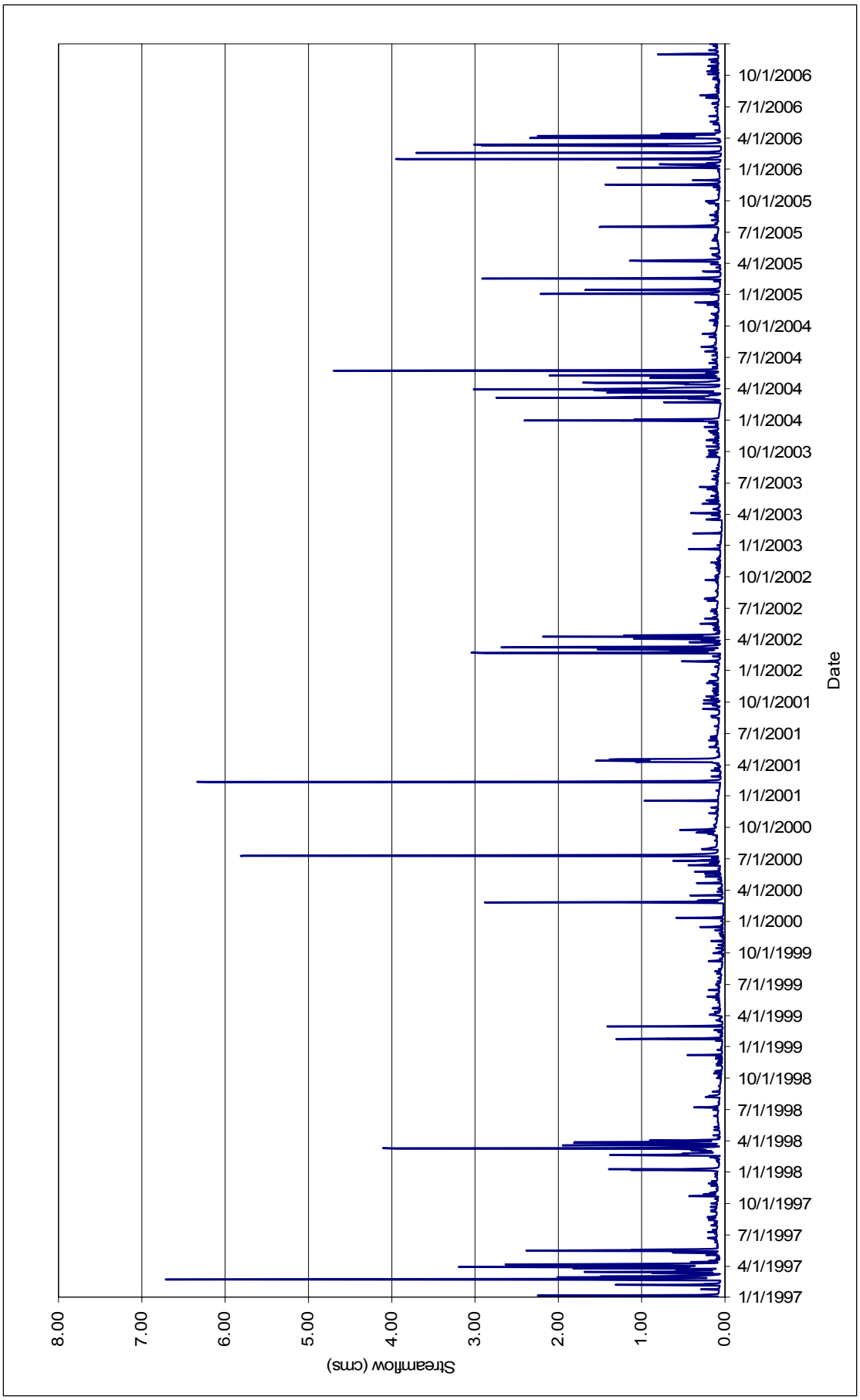
Graph 3.11: Ten Year Daily Streamflow Output for Gully #65, modeled via GAWSER.



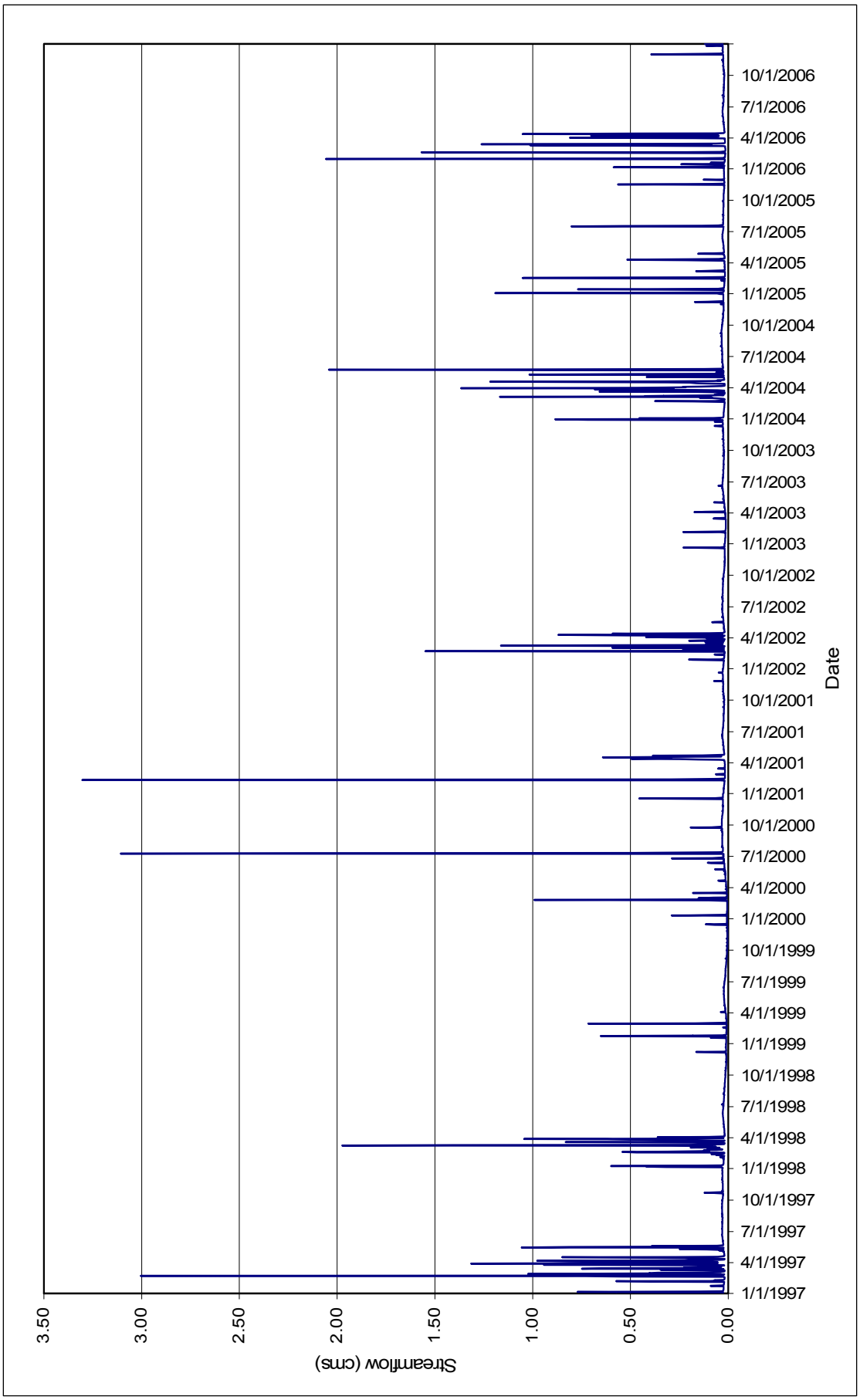
Graph 3.12: Ten Year Daily Streamflow Output for Gully Creek, modeled via GAWSER.



Graph 3.13: Ten Year Daily Streamflow Output for MD Drain, modeled via GAWSER.



Graph 3.14: Ten Year Daily Streamflow Output for Zurich Drain, modeled via GAWSER.



Graph 3.15: Ten Year Daily Streamflow Output for Datar Miller, modeled via GAWSER.

Table 3.3: Volumes for Eighteen Mile River and Boyd Creek at the confluence, compared to Eighteen Mile River at the Lake Huron outlet.

Shoreline Tributary	Daily Volume Average (m^3)	Seasonal Daily Average Volume (m^3)			
		Spring	Summer	Fall	Winter
Modeled Boyd Creek @ Confluence	30694.88	39997.47	3029.79	30350.77	49770.96
Modeled Eighteen Mile River @ Confluence	90521.35	128524.32	12293.12	75403.08	146827.80
Added Eighteen Mile River and Boyd Creek @ Confluence	121216.22	168521.79	15322.91	105753.86	196598.75
Modeled Eighteen Mile River @ Outlet	136948.28	237727.35	14224.63	103059.82	193626.71

Volumes

Using the Ten Year Daily Output Model, the daily volume from each tributary could be calculated. The daily streamflow values are in cubic metres per second (cms), therefore multiplying those streamflows by the number of seconds in one day (60 sec x 60 min. x 24 hrs = 86400 sec/day), the daily volume for the tributary could be calculated and yearly and season averages could be determined. Table 3.4 displays the calculated daily volume averaged during the 10 year period and seasonal averages.

The volumes correspond to the anticipated findings made at the beginning of the project (see Table 3.4). Corresponding to the streamflows, the spring and the summer daily average volumes are the highest and lowest volumes respectively. According to measurements though, winter averages for Boyd and Eighteen Mile River before the confluence had a larger average volume than the spring. But at the Lake Huron outlet, average spring volumes were larger. This could be explained with larger surface runoff and groundwater contributions from sources between the confluence and Lake Huron. Gully #64 also has similar spring and winter average volumes, but the streamflow in the tributaries are minimal and event-based (snowmelts, large rainfall events).

Interestingly, when viewed seasonally, it appears winter produces more streamflow than spring for the Ausable Bayfield sites. This is an odd conclusion, as it was anticipated that the spring snowmelt would produce more flow and volume. When the monthly volume averages are reviewed in Appendix E, however, the month of March produces the largest volumes. This indicates that possibly the snowmelt could occur in early-mid March, still regarded as the winter season (for this project, spring begins March 21 of every year). Comparing the average monthly volume for each day of March, as viewed in Table 3.5, the higher volumes are in early March for each stream, although the 21st of the

month also had the one of the larger flows for the month. Therefore, spring snowmelt occurs in very late winter, in mid March. The summer streamflow also appears to be greater than the autumn, but rainfall events can be variable throughout those seasons and cause enough runoff to increase streamflow in the streams.

Table 3.4: Daily and Seasonal Average Volume over Ten Years.

Shoreline Tributary	Average Annual Volume (m^3)	Average Seasonal Volume (m^3)				Percentage of Volume per Month (%)			
		Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter
Boyd Creek	112097686.58	36332755.20	2782885.08	27757644.80	45224401.51	32.41	2.48	24.76	40.34
Eighteen Mile River (@ Boyd Creek Confluence)	329519664.00	115591708.80	11542435.20	70832880.00	131552640.00	35.08	3.50	21.50	39.92
Eighteen Mile River (@ Lake Huron Outlet)	500272070.40	216740880.00	13021344.00	94276483.20	176233363.20	43.32	2.60	18.85	35.23
Kerry Creek	132542750.79	56314887.52	10274402.20	20022516.66	45930944.41	42.49	7.75	15.11	34.65
Nine Mile River	1301697216.00	584272396.80	108642643.20	217813795.20	390968380.80	44.89	8.35	16.73	30.04
Gully 64	718158.77	281707.79	56117.49	105932.46	274401.03	39.23	7.81	14.75	38.21
Gully 65	18972540.27	8018890.56	1589032.20	2929021.65	6435595.86	42.27	8.38	15.44	33.92
Gully Creek	33256310.40	10785657.60	5462380.80	4178304.00	12829968.00	32.43	16.43	12.56	38.58
MD Drain	5231650.20	1691884.80	733190.40	529243.80	2277331.20	32.34	14.01	10.12	43.53
Zurich Drain	53951702.40	16827696.00	9575193.60	7790515.20	19758297.60	31.19	17.75	14.44	36.62
Datar Miller	17227555.20	5598720.00	2658441.60	2022710.40	6947683.20	32.50	15.43	11.74	40.33

Table 3.5: March Daily Volume Discharge for each of the selected streams.

Date	Volume (m^3)			
	Gully Creek	MD Drain	Zurich Drain	Datar Miller
3/1	23008.32	3706.56	27933.12	8285.76
3/2	32797.44	4406.40	30576.96	9892.80
3/3	29695.68	3067.20	29125.44	9357.12
3/4	15016.32	1192.32	16381.44	4078.08
3/5	25695.36	5598.72	31916.16	11854.08
3/6	14221.44	1347.84	20459.52	5279.04
3/7	8475.84	2376.00	18334.08	6635.52
3/8	17712.00	4855.68	30283.20	12389.76
3/9	43511.04	13599.36	74882.88	35052.48
3/10	65309.76	9374.40	86391.36	29859.84
3/11	24382.08	1926.72	39588.48	8415.36
3/12	11629.44	1080.00	19206.72	2885.76
3/13	20813.76	5140.80	34257.60	12536.64
3/14	17228.16	4043.52	31993.92	11897.28
3/15	16796.16	2125.44	25911.36	8622.72
3/16	6747.84	1123.20	16260.48	4587.84
3/17	6039.36	1944.00	14575.68	4916.16
3/18	11802.24	2168.64	18567.36	6756.48
3/19	14109.12	2877.12	25531.20	10074.24
3/20	16493.76	2998.08	26879.04	9694.08
3/21	11275.20	1788.48	18671.04	4700.16
3/22	9192.96	967.68	13029.12	2712.96
3/23	5296.32	1062.72	9936.00	3075.84
3/24	6791.04	1010.88	10385.28	3386.88
3/25	19500.48	5728.32	30533.76	12951.36
3/26	31078.08	5201.28	41973.12	14091.84
3/27	21401.28	3421.44	36521.28	11439.36
3/28	15361.92	5339.52	36063.36	15672.96
3/29	30490.56	6151.68	50258.88	19344.96
3/30	37342.08	7283.52	56592.00	20934.72
3/31	21219.84	2687.04	34128.00	9452.16

Event-based Model

The rainfall events were modelled for 25 mm precipitation between the months of April and October. The intensity/duration of these events varied, and each stream witnessed the same event or an event very similar to the conditions. GAWSER can vary watershed conditions seasonally, allowing conditions to fit the time of season and obtain more realistic measurements.

The variations of the events are in the duration of the rainfall and the time of season each rainfall event occurred. The events include the approximately 25 mm of precipitation occurring:

- Over one hour
- Over two hours, with the majority during the last hour
- Over two hours, but a small event occurring several hours later
- Over several hours, with similar amounts of precipitation each hour

Considering these events were measured with seasonal changes, a wide range of changes can be measured for each of the streams.

For Eighteen Mile River watershed and Boyd Creek subwatershed, thirty-two rainfall events (see Graph 3.10 and 3.11, and Appendix D), each yielding approximately 25 mm of precipitation and during the months of April and October since 1961, were modelled and compared. The highest modelled streamflows occurred after a rainfall event during the spring season. For instance, with 25 mm of precipitation over one hour during May 2002, the modelled streamflows quickly quadrupled to over 4.0 m/s and steadily decrease over the next several hours. Another event in April 1969, with the 25 mm falling over 8 hours and streamflows already over 2.0 m/s, the modelled streamflows steady increased, but not to the same magnitude as the May 2002 event. Variations on when snowmelt occurred that season is an explanation, as water content could be low enough in April 1969 to absorb some of the rainfall. An early spring could be the cause, also lead to an early growing season that would also absorb moisture. The streamflows through the Eighteen Mile River are also larger than the Boyd Creek streamflows, as the Eighteen Mile has a considerably larger watershed area. Other rainfall events during the spring showed large streamflows in Eighteen Mile and Boyd Creek watersheds.

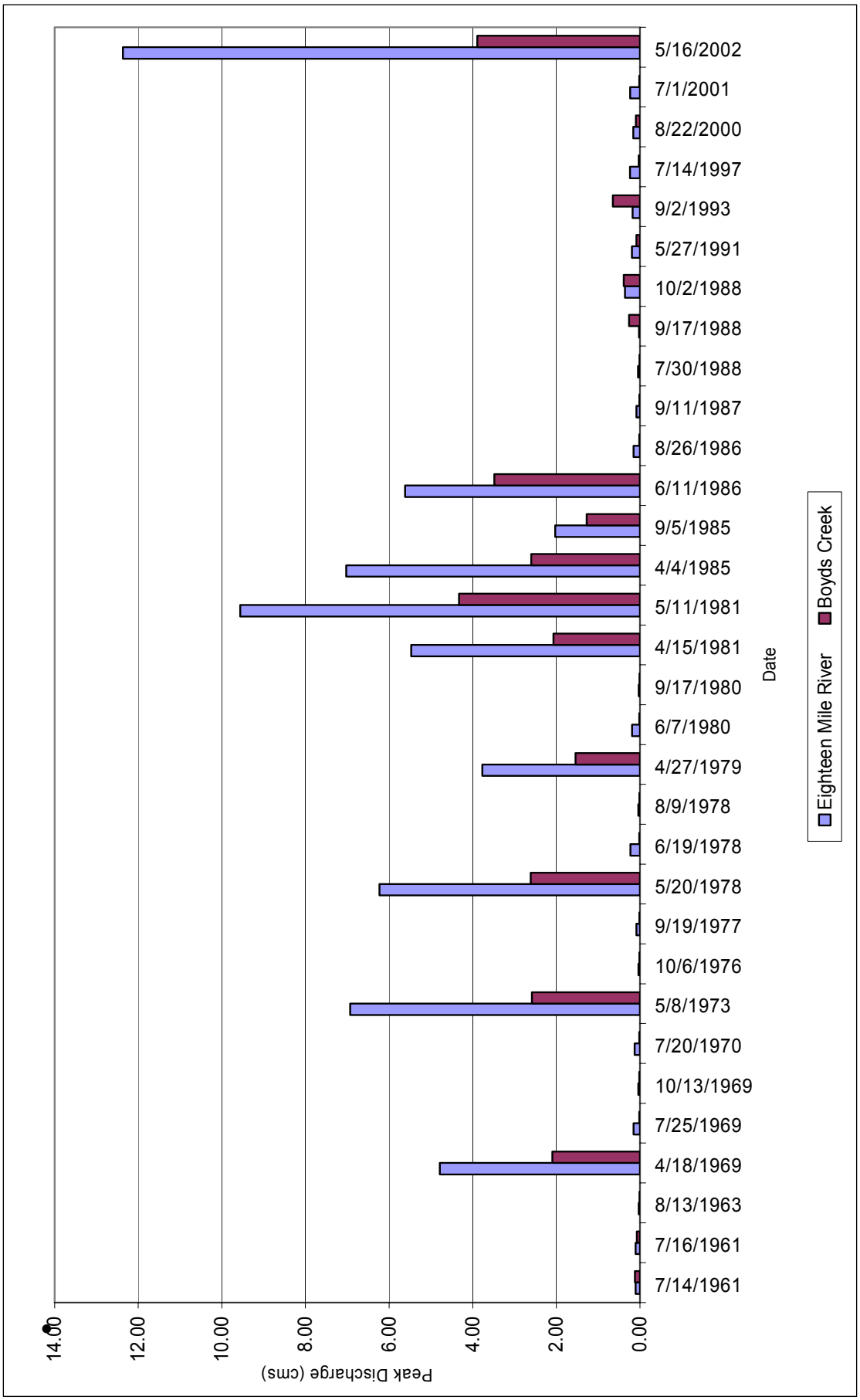
During the spring and fall, the streamflow measurements were inconsistent. Streamflows due to precipitation events vary with land use characteristics and watershed conditions before the time of the event. Drought-like conditions would lead to minimal increases in streamflows, but saturated soil conditions would lead to more runoff into the streams and higher streamflows would result. With 25 mm of precipitation over 3 hours in August 1961, the streamflows changed little. In June 1961 though, after two hours of 25 mm and an extra 9 mm five hours later, streamflows steadily doubled over the course of the event. In June 1986, a 25 mm rainfall event over three hours (with the majority of precipitation in the second hour) streamflows steadily raise over a full day before decreasing. Autumn also witnesses these inconsistent effects, depending on rainfall intensity/duration, as there is some vegetation and crops in the fields and soil moisture can vary. A 25 mm event over 7 hours in October 1988 witnessed no change in streamflow, but 25 mm falling over 2 hours in September 1993 witnessed a large increase in streamflows. Other calculations have displayed the same pattern. Summer and autumn rainfall events have variable effects on

streamflows, dependent on the watershed characteristics, but more importantly dependent on rainfall intensity/duration.

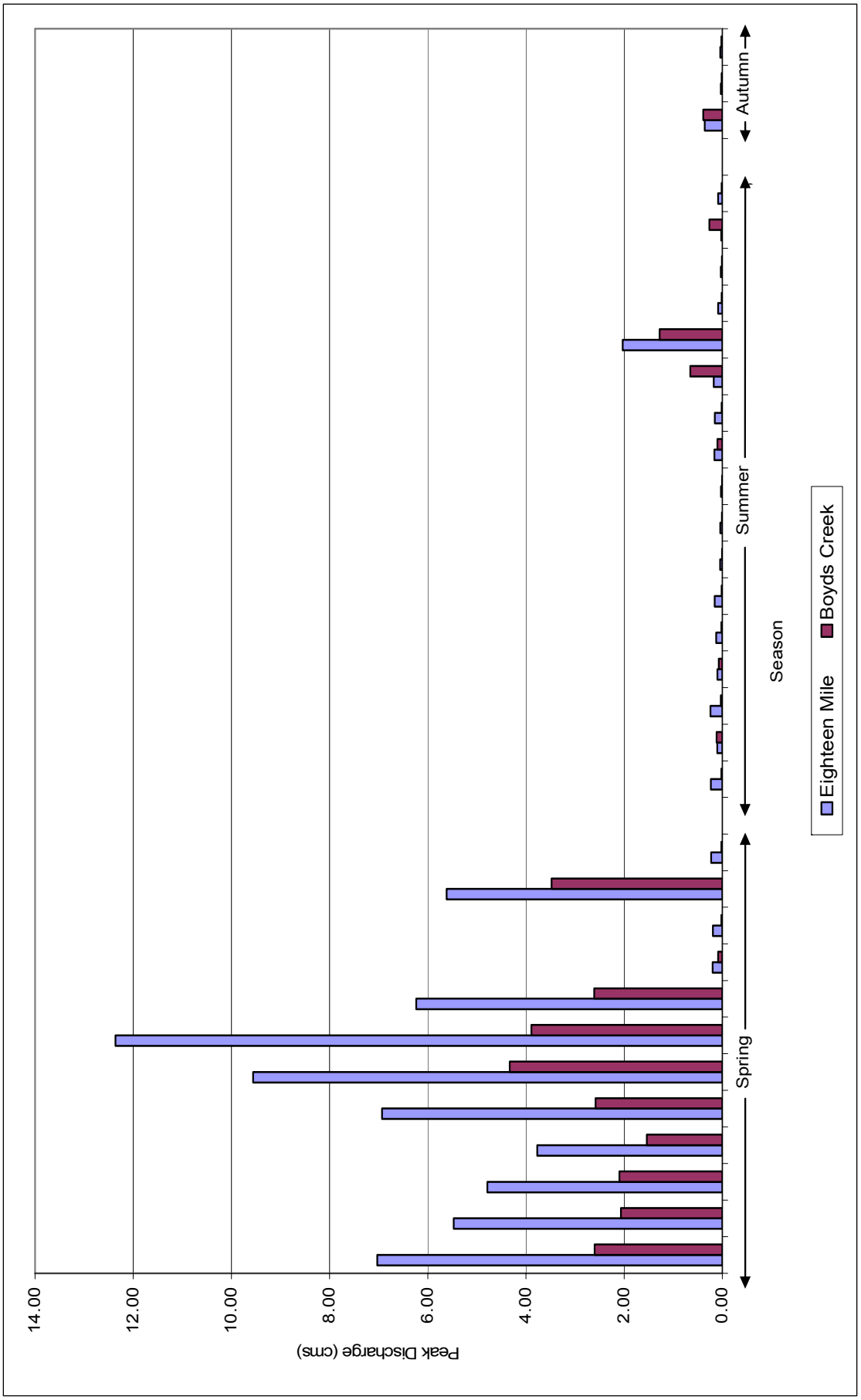
The other streams (except for Gully Creek), while smaller than the larger watersheds, witness the same patterns as the Eighteen Mile and Boyd Creek watersheds (see Graph 3.12 to 3.15, and Appendix D). These streamflows during rainfall events are affected more by the antecedent soil moisture for watershed land associated with the stream due to the small watershed size. Therefore peak streamflows are smaller and happen sooner after a rainfall event. In these small streams, after the majority of the 25 mm rainfall occurs, the peak discharge occurs in less than 5 hours after the storm. It is evident that for MD Drain and Data Miller, peak discharge occurs quickly after the majority of the rainfall has occurred. Gully #64, the smallest of the streams determined for this project, was predicted by the model to be mostly dry except for spring runoff and that occurred in the model. For some of the rainfall events for Gully #64 and MD Drain, streamflows either did not change or were nonexistent.

For Gully Creek, the layout of the stream is very unique. The stream “fans” out at the headwaters, creating several branches at the end that feed into the output. The modelled values indicate that peak discharge occurs quickly in the stream, but if the majority of the stream is located in the headwaters, it might be expected that peak discharge would occur much later, gradually increasing to the peak discharge. The June 16, 1980 storm, when 19.4 mm of rain fell in the first hour of a three hour storm, the discharge gradually increased over two days. Since the majority of the stream is located in the stream headwaters, streamflow would be delayed. If the stream was similar in shape as MD Drain, peak discharge would occur quicker. But because of the shape of the stream, the peak discharge is delayed while water at the headwaters is still flowing to the outlet.

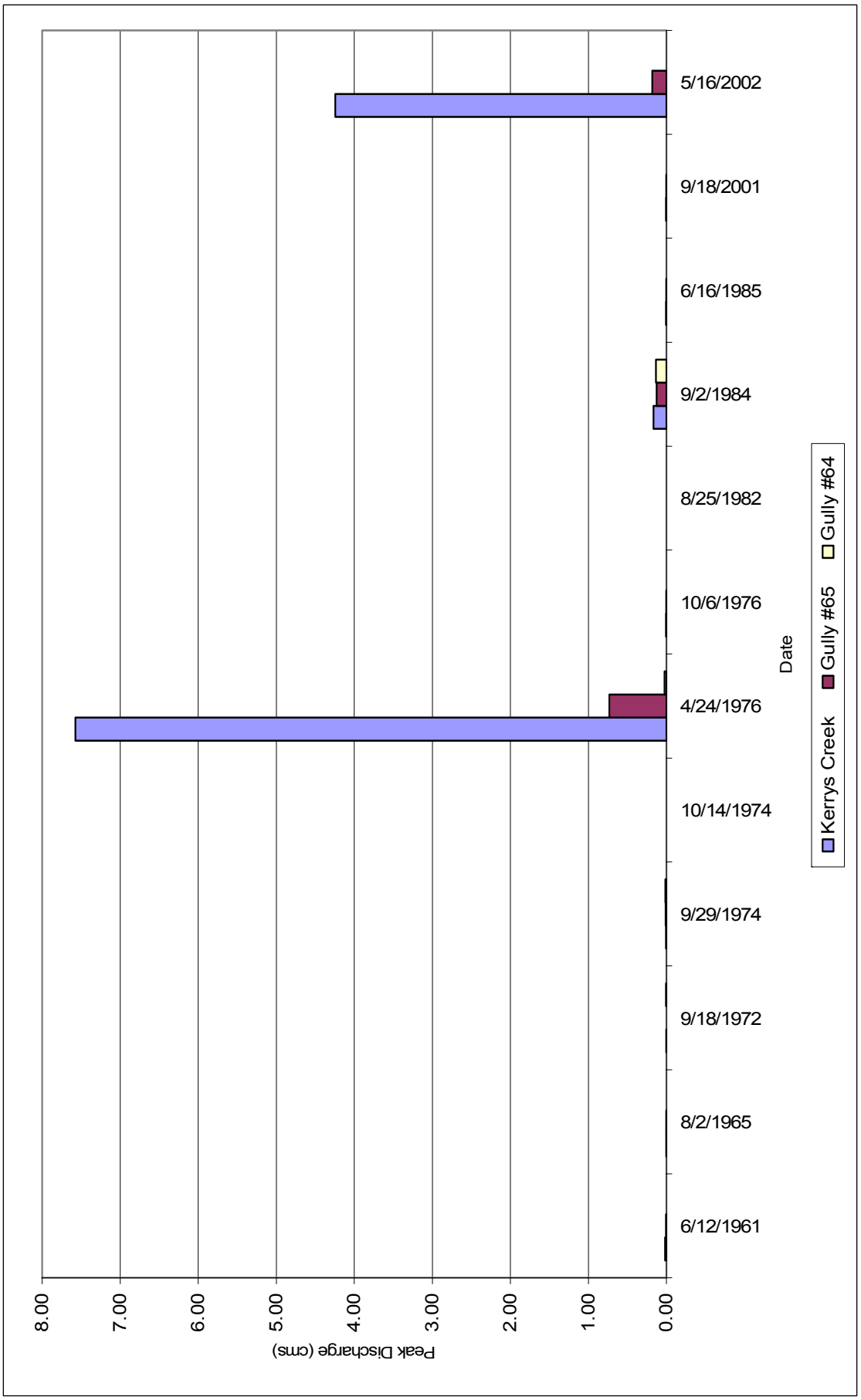
Graphs 3.11, 3.13, and 3.15 reorder the events into the time of year the event occurred, displaying the changes in peak discharge of events during the year. These graphs show that soil and land use as the characteristics affect antecedent moisture, evapotranspiration rates, interception, resistance to overland runoff at the time of the events, and the duration of the event have an effect on ultimate streamflow. Seasonally, peak discharges are more evident in the spring after precipitation events. This can be attributed to low evapotranspiration and snowmelt, leading to high antecedent soil moisture. Summer has more such 25 mm rainfall events but significantly lower peaks discharges due to the low soil moisture and high vegetation cover that is a characteristic of the land in the summer season.



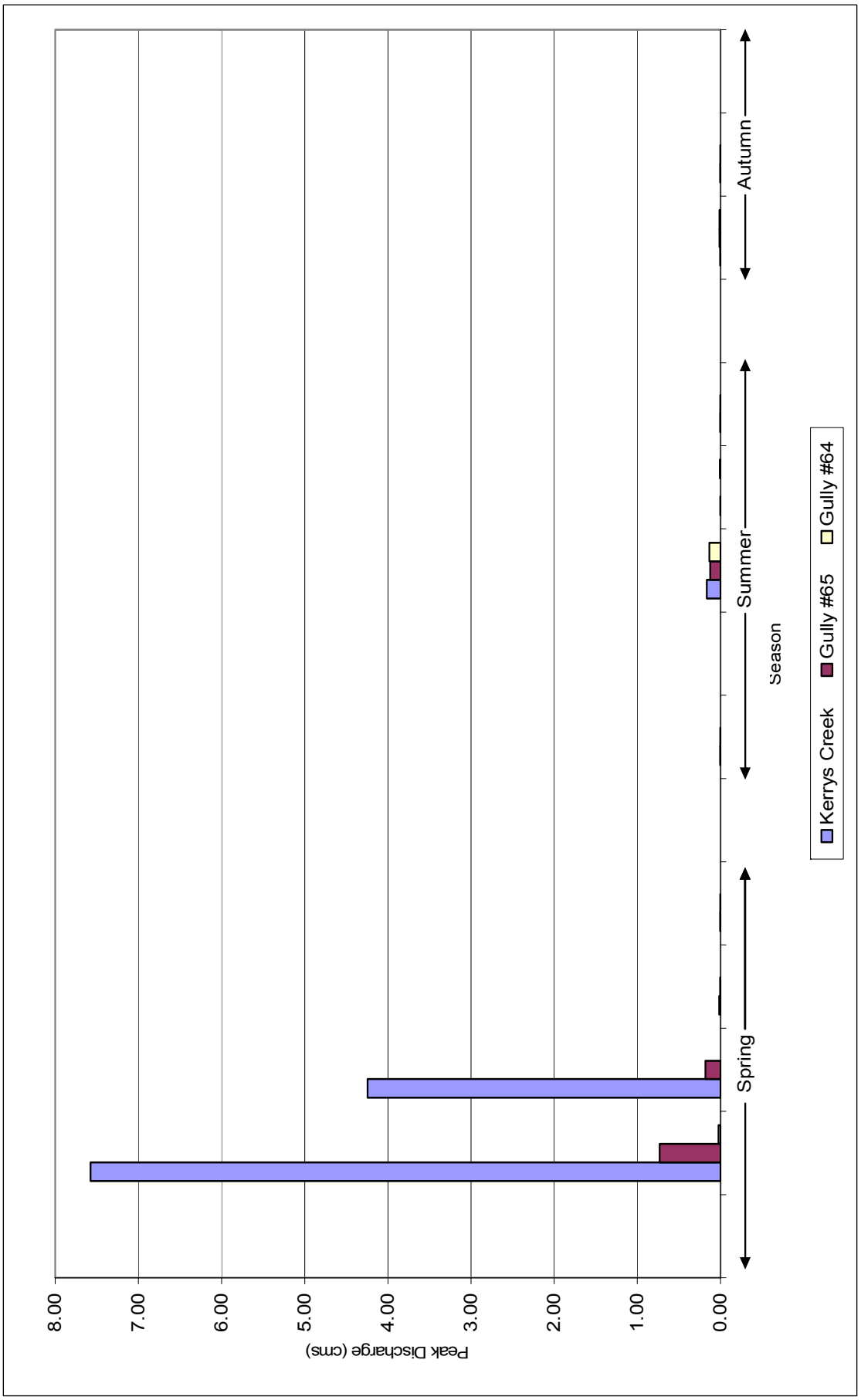
Graph 3.10: Comparing modeled peak discharge streamflow with specific 25 mm rainfall events for the Eighteen Mile River and Boyd Creek.



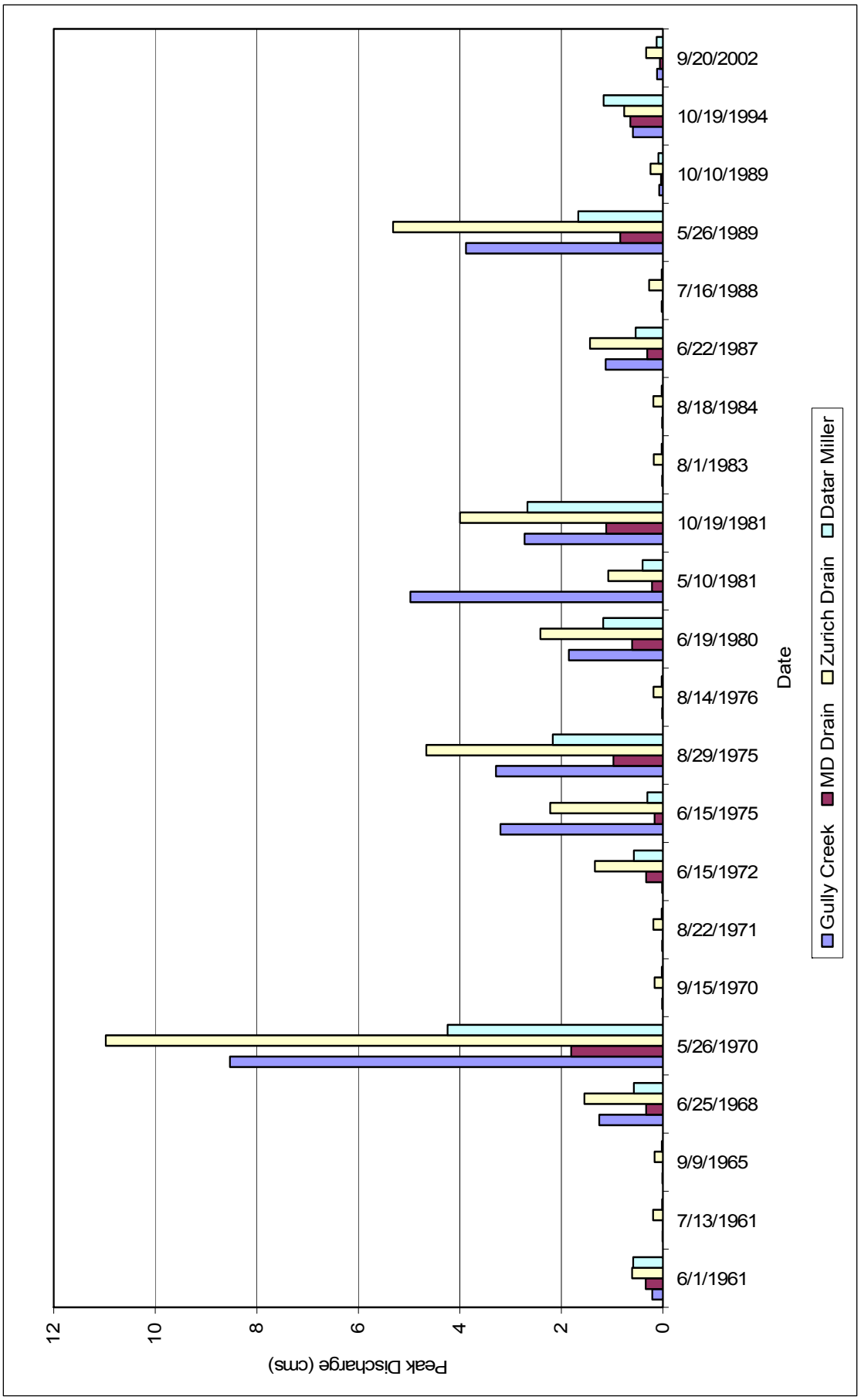
Graph 3.11: Comparing modeled peak seasonal discharge streamflow with specific 25 mm rainfall events for Eighteen Mile River and Boyd Creek.



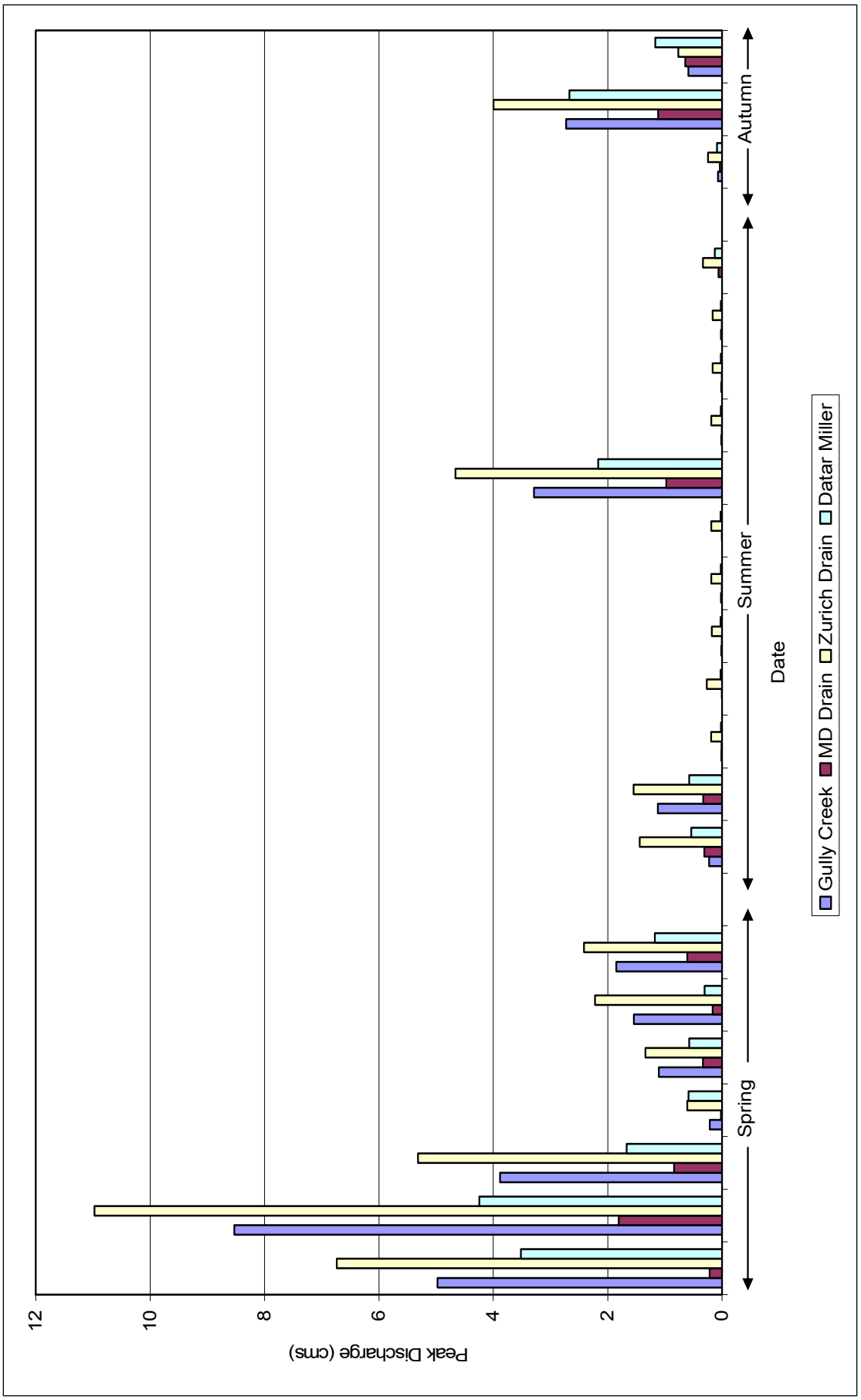
Graph 3.12: Comparing modeled peak discharge streamflow with specific 25 mm rainfall events the small to medium sized streams in the Maitlnad Valley CA watershed.



Graph 3.13: Comparing seasonal peak seasonal discharge with specific 25 mm rainfall events for the small to medium sized streams in the Maitland Valley CA watershed.



Graph 3.14: Comparing modeled peak discharge streamflow with specific 25 mm rainfall events for the streams in the Ausable Bayfield CA watershed.



Graph 3.15: Comparing seasonal peak seasonal discharge with specific 25 mm rainfall events for streams in the Ausable Bayfield CA watershed.

Other Subwatersheds

Only comparisons have been made to ten different subwatersheds, but there are many more subwatersheds along the Lake Huron shoreline that drain into Lake Huron. For the remaining subwatersheds (plus the measured subwatersheds) along the Lake Huron shoreline, monthly averages were calculated using the SWAT model. This information was derived from term (20 year) continuous run of the SWAT model. Included in Appendix F are the following monthly averages for the shoreline subwatersheds:

- Surface runoff
- Estimated baseflow
- Evapotranspiration
- Precipitation
- Volume of water entering the ground and moving beyond the root zone

All of the maps and figures are in Appendix E. Each subwatershed is given a number that corresponds to a subwatershed map. The runoff units are in “mm”, or “depth over watershed”, so that values could be compared tot eh precipitation values. For the surface runoff, baseflow, and total streamflow, yearly streamflow is also provided in “cms”.

There are many subwatersheds with small surface areas, but have higher total streamflows per unit area, evident in the northern section of the MVCA watershed, near Amberley. Compare subwatershed 603 with the larger subwatershed 608, and 603 has more total streamflow draining (Table 3.6). The argument can be made that these various values were caused by different soil, land use, and agricultural factors, affecting subwatershed 603, which consists of silty clay loam and row crops that are rotated on a regular basis, allows more surface runoff than the clay-majority 608 subwatershed that has more permanently designated crop areas. Subwatershed 608 had higher baseflow contribution due to more clay loam, while subwatershed 603 contributed more surface runoff after rainfall events year-round due to the silty clay loam and more dominate use of row crops on the land. Also with a larger area for collect precipitation and more rainfall to contribute to groundwater, surface runoff and baseflow measurements would be greater for subwatershed 608. If the subwatersheds were be the same size (on a unit area basis), subwatershed 608 would contribute less water to the shoreline than subwatershed 603 because of the land characteristics.

When reviewing all of the subwatersheds together in “cms” units, the larger subwatersheds are producing the largest streamflows to Lake Huron. Subwatersheds 608 and 611 have the two largest areas (27.45 km^2 and 26.65 km^2 respectively) and the two largest streamflows (0.5857 cms and 0.5921 cms respectively). The strongest streamflows are also in the month of March, with

the lowest streamflows resulting in the summer months of July and August. Gully #64, which is subwatershed 721 in Appendix F, has a streamflow of 0.0023 cms. Along with its small watershed area (0.15 km^2), Gully #64 would be practically dry for the majority of the year, except for the spring months when streamflows are high for the subwatershed. This is more likely to be correct

Table 3.6: Total streamflows for subwatersheds 603 and 608, in cms and mm.

Subwatershed	Watershed (km^2)	Surface Runoff		Baseflow		Total Streamflow	
		mm	cms	mm	cms	mm	cms
603	0.3655	560.8546	0.0783	188.9848	0.0262	749.8394	0.1046
608	27.448	400.3075	4.2085	273.0579	2.8471	673.3654	7.0556

For tables and more information, please see Appendix G.

4 Conclusions

What differentiates the Lake Huron watersheds to inland watersheds is that pollutants have a short distance to travel over many different outlets instead being filtered and diluted over kilometres of streams before reaching the lake at one large outlet. Closed beaches after rainfall events already occur along the shoreline. These closures can become more frequent and longer, costing the municipality and landowner's money, if the issue is not dealt with. The purpose of the project is to obtain a better understanding of the hydrologic functions of the Lake Huron shoreline tributaries, and develop approaches that could prevent closed beaches and millions of dollars lost. Several objectives were set forward and anticipated findings were developed to determine an approach that would yield hourly to daily predictions for different tributary discharges.

Overall, the watersheds along the Lake Huron shoreline have certain streamflow patterns. In the spring, snowmelt and ground thaw runoff into streams and municipal drains, increases the streamflow to its highest peaks of the year. During the summer and autumn, streamflows vary depending on watershed characteristics before a rainfall event and its intensity. Watersheds that are experiencing drought-like conditions will need a large rainfall to produce sufficient streamflows. But for a small rainfall, vegetation and crop land will reduce any runoff into the streams.

For the smaller tributaries, the model calculations correspond to the determined measurements, in identical circumstances as the Levelogger tributaries. Rating curves are more difficult to establish for these streams. There are fewer streamflow events measured to develop the rating curve.

Streamflow measurements were taken in the field throughout the year, measuring streamflow and water levels on selected representative shoreline tributaries. Using these measurements, rating curves were developed for the tributaries. The same tributaries were also modelled using GAWSER. Comparing the hourly model streamflow simulates (and development daily modelled streamflows), it appears the model results are similar with the determined measurements, if it were not for some differences. Looking at the graphs, the model corresponds very well with the determined measurements, particularly if monthly or seasonal trends are considered.

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APPENDIX A

Watershed Parameters

Table AA.1: Geographical locations of cross sections used to calculate streamflow.

Site	Longitude	Latitude	UTM 1983 X	UTM1983 Y
Boyd Cr. @ HWY.21	-81.7145	44.0288	442745.661	4875319.158
Eighteen Mile River @ HWY. 21	-81.7117	44.02176	442960.814	4874536.204
Eighteen Mile River Outlet	-81.7342	44.02076	441155.839	4874386.86
Kerry Cr. @ HWY21	-81.7031	43.95678	443585.418	4867313.125
Kerry Cr. Outlet	-81.7299	43.95879	441442.931	4867554.319
Gully #64 Outlet	-81.7288	43.69768	441275.094	4838554.074
Gully #65 @ HWY. 21	-81.7059	43.69311	443116.063	4838030.336
Gully #65 Outlet	-81.7271	43.69397	441405.318	4838140.08
Gully Creek @ Hwy. 21	-81.706	43.6138	443031.1434	4829222.03
Gully Creek @ Outlet	-81.7136	43.615	442419.0244	4829360.54
MD Drain @ Hwy. 21	-81.7073	43.5092	442827.4118	4817606.08
MD Drain @ Outlet	-81.7124	43.5088	442414.7863	4817565.17
Zurich Drain @ Hwy. 21	-81.7072	43.4067	442738.8476	4806222.59
Zurich Drain @ Outlet	-81.7134	43.4105	442240.4505	4806648.89
Data Miller @ Hwy. 21	-81.7122	43.367	442296.3542	4801817.1
Data Miller @ Outlet	-81.7202	43.369	441650.096	4802044.78

Table AA.2: HRU definitions

Hydrologic Response Unit (RU)	Group 1 Description (vegetation/soil type)	Group 2 Description vegetation/soil type)
1	Impervious surfaces	• Impervious surfaces • Low Vegetative Cover (includes pasture and row crops)
2	• Organic Bottom Land or Muck • Low Vegetative Cover (includes pasture and row crops)	Soil Group A with all low vegetation
3	Soil Group A with all low vegetation	Soil Group B with all low vegetation
4	Soil Group B with perennial vegetation	Soil Group C with perennial vegetation
5	Soil Group B with seasonal cut vegetation	Soil Group C with seasonal cut vegetation
6	Soil Group C & D with perennial vegetation	Soil Group D with perennial vegetation
7	Soil Group C & D with seasonal cut vegetation	Soil Group D with seasonal cut vegetation
	High Vegetative Cover (Forests)	High Vegetative Cover (Forests)
8	Soil Group A & B	Soil Group A & B
9	Soil Group C & D	Soil Group C & D

Table AA.3: Watershed Parameters along the Lake Huron Shoreline.

River	Subcatchment	Area (Km^2)	Length (m)	Width (m)	Imp HRU1 %	HRU2 %	HRU3 %	HRU4 %	HRU5 %	HRU6 %	HRU7 %	HRU8 %	HRU9 %	Climate ZUM	HRU Group
Boyd Creek	611	26.6505	20477	1301	0	0.69	17.55	5.33	1.85	59.28	11.68	3.06	0.56	Lucknow	2
Eighteen Mile River before confluence	607	14.153	11267	1256	0	1.37	8.55	49.87	22.54	8.08	2.36	1.18	6.05	Lucknow	2
	608	27.448	19533	1405	0	4.07	4.69	58.54	16.02	3.19	1.42	4.23	7.84	Lucknow	2
	609	10.9853	13233	830	0	1.05	34.34	6.34	0.94	39.04	4.53	9.38	4.38	Lucknow	2
	610	14.7211	13586	1084	0	11.61	16.71	29.12	4.38	27.36	5.49	1.67	3.66	Lucknow	2
	612	11.2644	13761	819	0	4.38	29.66	14.88	0.51	40.67	8.12	1.08	0.7	Lucknow	2
Eighteen Mile River	613	0.2886	959	301	0	0	1.59	0	0	35.72	0	21.23	41.46	Lucknow	2
Nine Mile River	501	14.232	10745	1324	1.04	11.36	6.32	7.55	38.12	20.66	4.75	1.07	9.13	Lucknow	2
	502	41.0657	19603	2094	0.24	17.25	31.56	28.6	2.32	0.85	0.73	16.69	1.76	Lucknow	1
	503	9.688	9070	1068	7.16	0	26.58	3.2	22.37	24.03	0	12.32	4.34	Lucknow	1
	504	43.3402	12351	1396	1.3	11.86	40.88	15.89	3.82	0.58	0.34	23	2.33	Lucknow	1
	505	17.8955	15419	1166	1.35	12.93	25.62	41.32	1.36	0.16	0	16.64	0.62	Lucknow	1
	506	41.3616	19987	2069	2.57	3.81	10.68	41.23	23.65	5.42	1.66	13.18	6.62	Lucknow	1
	507	47.3695	26194	1808	0.33	7.880	6.19	41.730	18.680	2.580	2	15.130	5.070	Lucknow	1
	509	29.6754	20088	1477	2.81	0.070	10.14	7.630	38.820	0.770	15	12.930	12.280	Lucknow	1
Kerry Creek	651	1.9371	3197	707	0	0.02	3.48	49.44	18.65	18.62	0	2.09	7.7	Goderich	2
	652	5.0381	4663	1080	0	0	1.01	74.55	12.35	6.49	2.01	0.4	3.19	Goderich	2
	653	5.2906	4564	1159	0	0	7.67	76.57	0	5.58	0	1.08	9.1	Goderich	2
	654	1.1009	2688	410	0	0	0	54.59	10.1	17.92	8.42	0	8.97	Goderich	2
	655	6.8625	12380	554	0	6.87	13.64	23.52	5.89	35.93	7.19	2.09	4.87	Goderich	2
Gully #64	721	0.1524	1252	122	0	0	0	0	0	36.36	2.44	0	61.2	Goderich	2
Gully #65	722	3.9243	6270	626	0	8.36	17.11	24.46	4.23	29.61	0.9	6.07	9.26	Goderich	2
Gully Creek	748	4.2834	4592	932	0	0	1.75	73.65	5.05	0	0	7.13	12.42	Brucefield	2
	749	7.1426	5656	1263	0	0	1.04	72.56	3.51	7.61	1.13	4.82	9.33	Brucefield	2
	750	4.4702	6317	708	0	7.81	26.12	4.56	0.5	17.07	0.9	35.36	7.68	Brucefield	2
MD Drain	823	2.7867	7178	388	0	5.45	0	48.98	0	23.97	0	0	21.6	Brucefield	2
Zurich Drain	873	25.8389	17140	1505	3.89	3.44	21.15	51.31	0.06	8.96	0.19	3.76	7.24	Dashwood	2
Data Miller	884	9.0634	10560	858	0.25	4.88	15.53	45.82	0	20.17	0.56	1.34	11.45	Dashwood	2

APPENDIX B

Land Use and Soil Characteristics

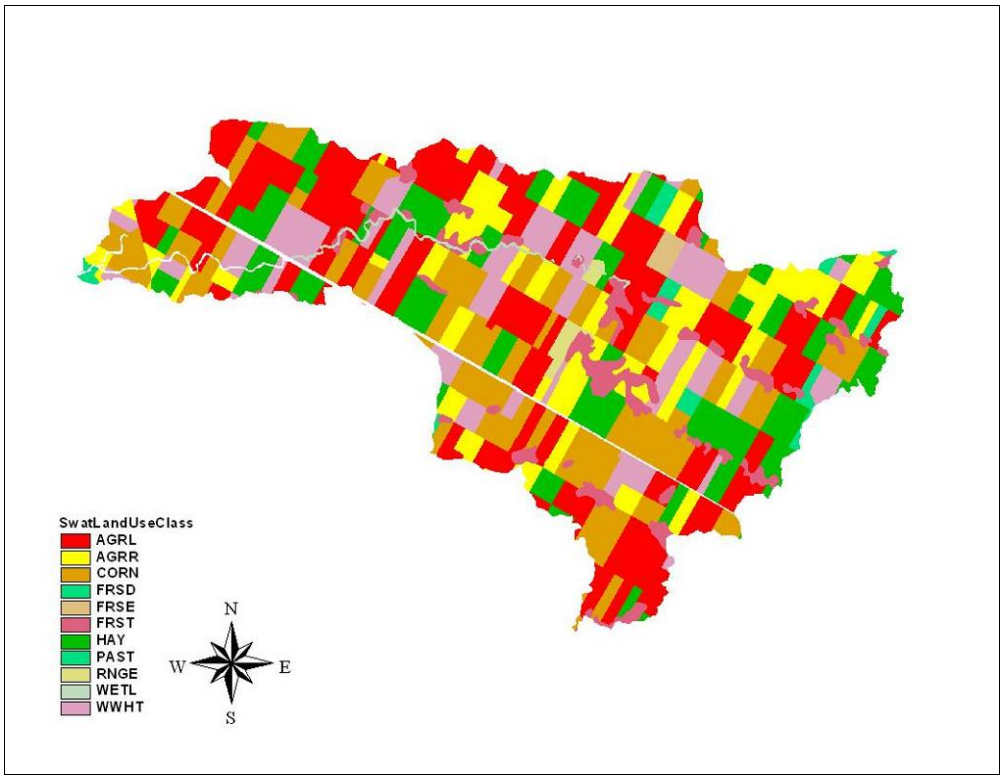
For Selected Watersheds

Table AB.1: Legend used for land use and soil character maps.

Term	Soil Type
B.L.	BOTTOM LAND
Bc	BROOKSTON CLAY LOAM
Bes	BERRIEN SANDY LOAM
Bg	BURFORD LOAM
Brl	BRISBANE LOAM
Brs	BRADY SANDY LOAM
Bs	BROOKSTON SILT LOAM
Bos	BOOKTON SANDY LOAM
Dl	DUMFRIES LOAM
Dos	DONNYBROOK SANDY LOAM
Ds	DUMFRIES SANDY LOAM
Esl	ELDERSLIE SILT LOAM
Fs	FOX SANDY LOAM
Gil	GILFORD LOAM
Gs	GRANBY SANDY LOAM
Hl	HARRISTON LOAM
Hs	GRANBY SANDY LOAM
Huc	HURON CLAY LOAM
Hus	HURON SILT LOAM
Ll	LISTOWEL LOAM
Ls	LISTOWEL SILT LOAM
M	MUCK
Pal	PARKHILL LOAM
Pas	PARKHILL SILT LOAM
Pc	PERTH CLAY LOAM
Ps	PERTH SILT LOAM
Psc	PERTH SILTY CLAY LOAM
Tc	TOLEDO CLAY LOAM
Was	WAUSEON SANDY LOAM
Wsl	WATERLOO SANDY LOAM
ZZ	WATER

Term	Land Use Type
AGRL	Agricultural Land-Generic
AGRR	Agricultural Land-Row Crops
CORN	Corn
FRSD	Forest-Deciduous
FRSE	Forest-Evergreen
FRST	Forest-Mixed
HAY	Hay
ORCD	Orchard
PAST	Pasture
RNGB	Range-Brush
RNGE	Range-Grasses
UIDU	Industrial
URMD	Residential-Medium Density
WATR	Water
WETL	Wetlands-Mixed
WWHT	Winter Wheat
ONIO	Onion

1)



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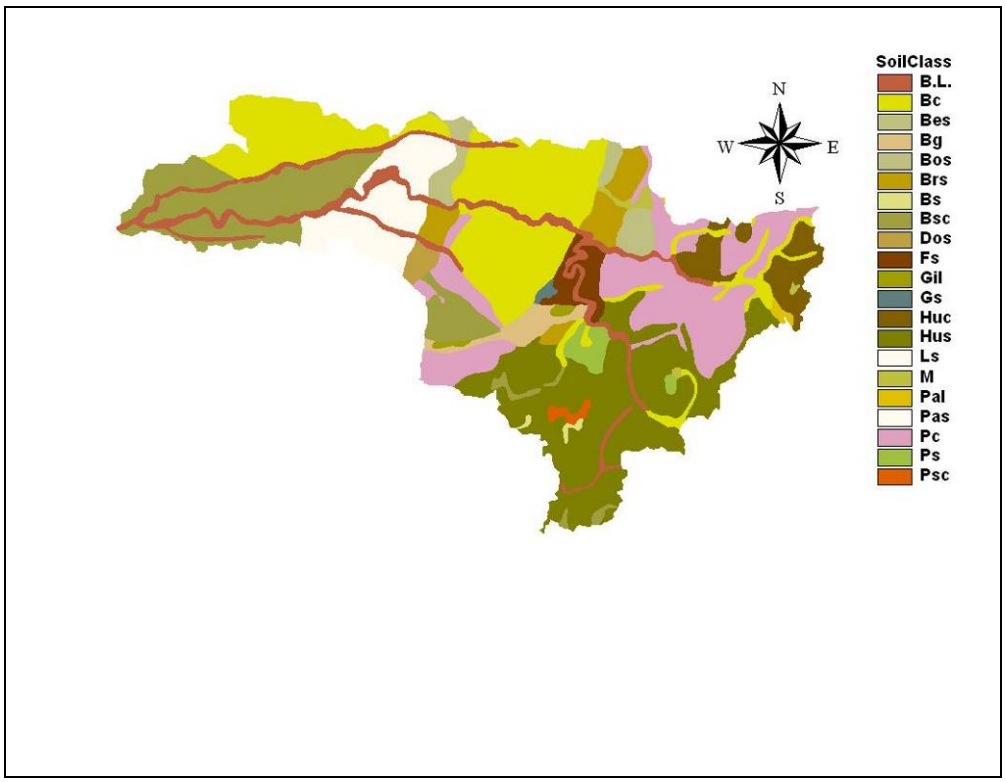
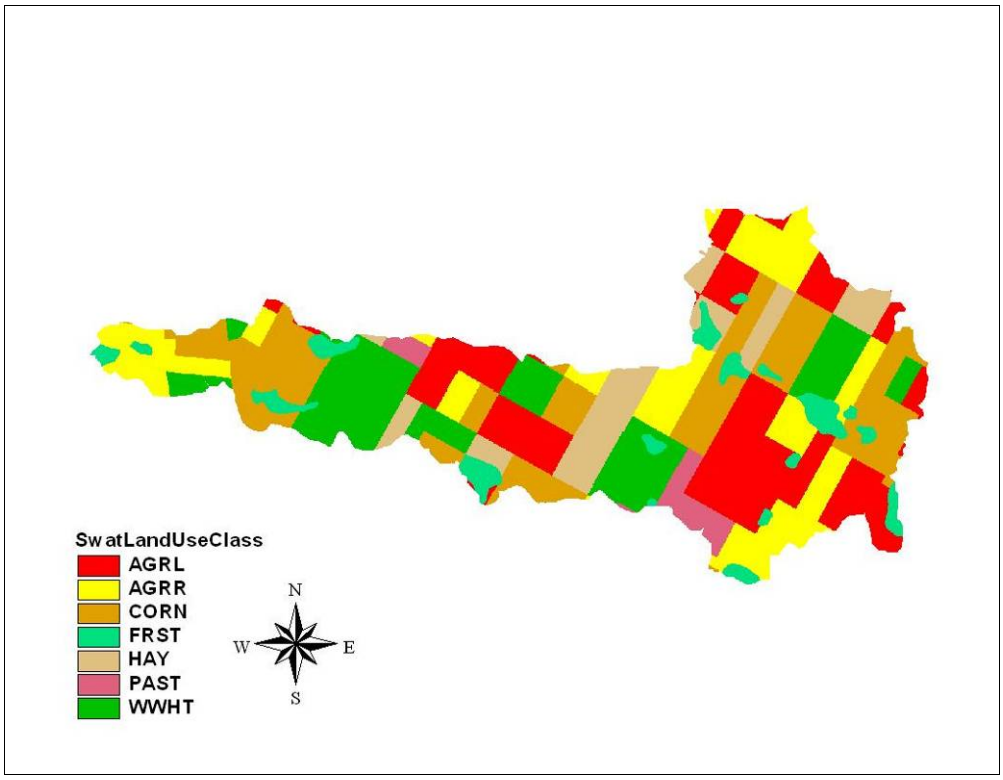


Fig AB.1: Eighteen Mile River Watershed 1) Land Use and; 2) Soil Characteristics

1)



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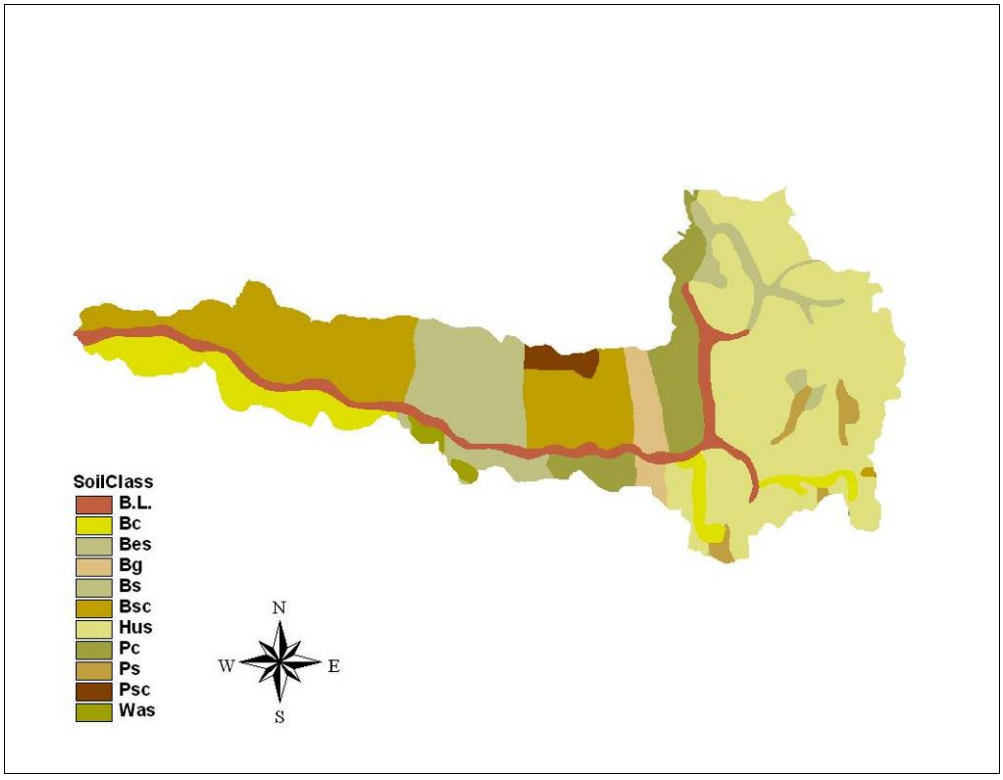


Fig AB.2: Kerry Creek Watershed 1) Land Use and; 2) Soil Characteristics

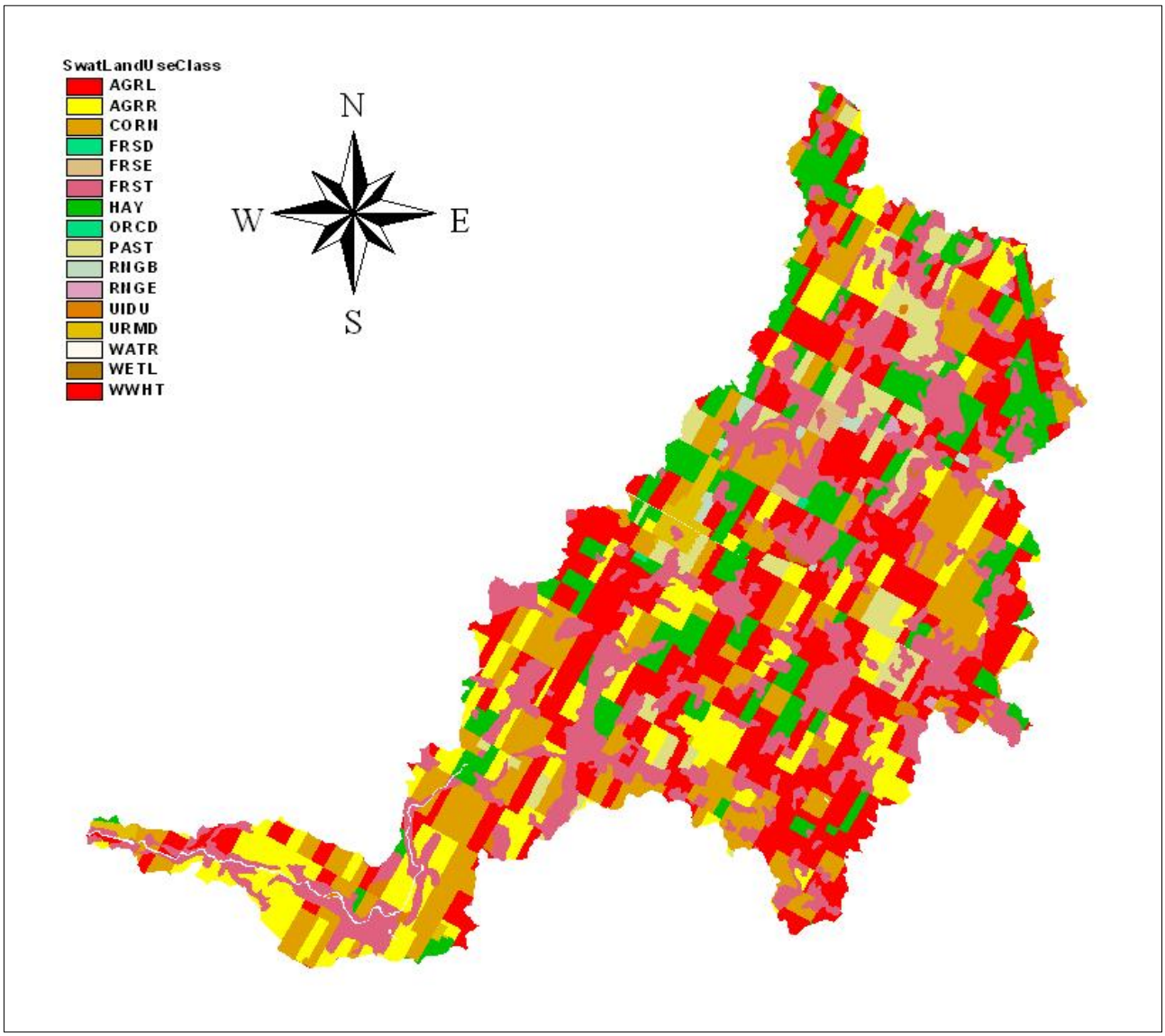


Fig AB.3: Land Use Characteristics for Nine Mile River Watershed

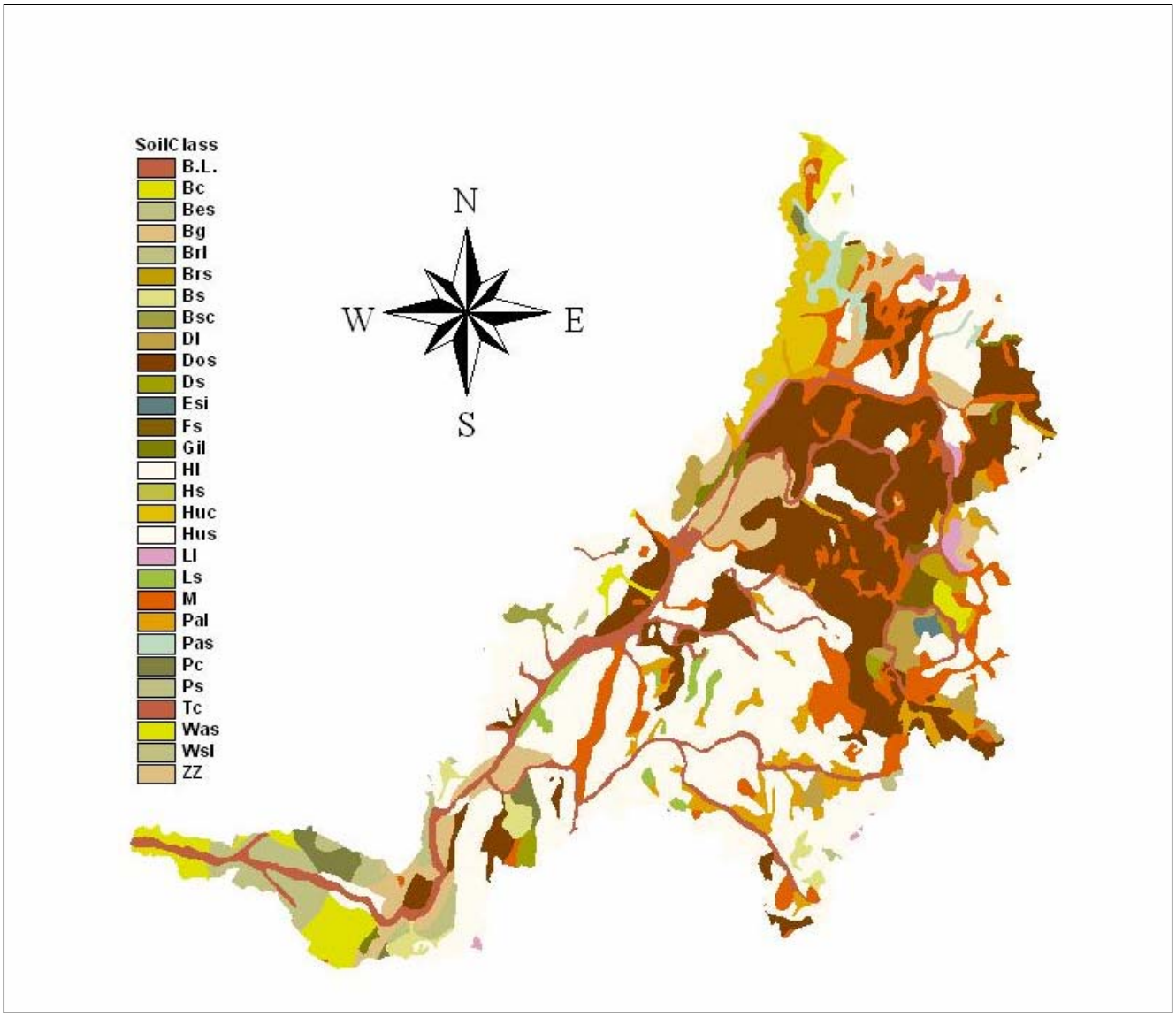
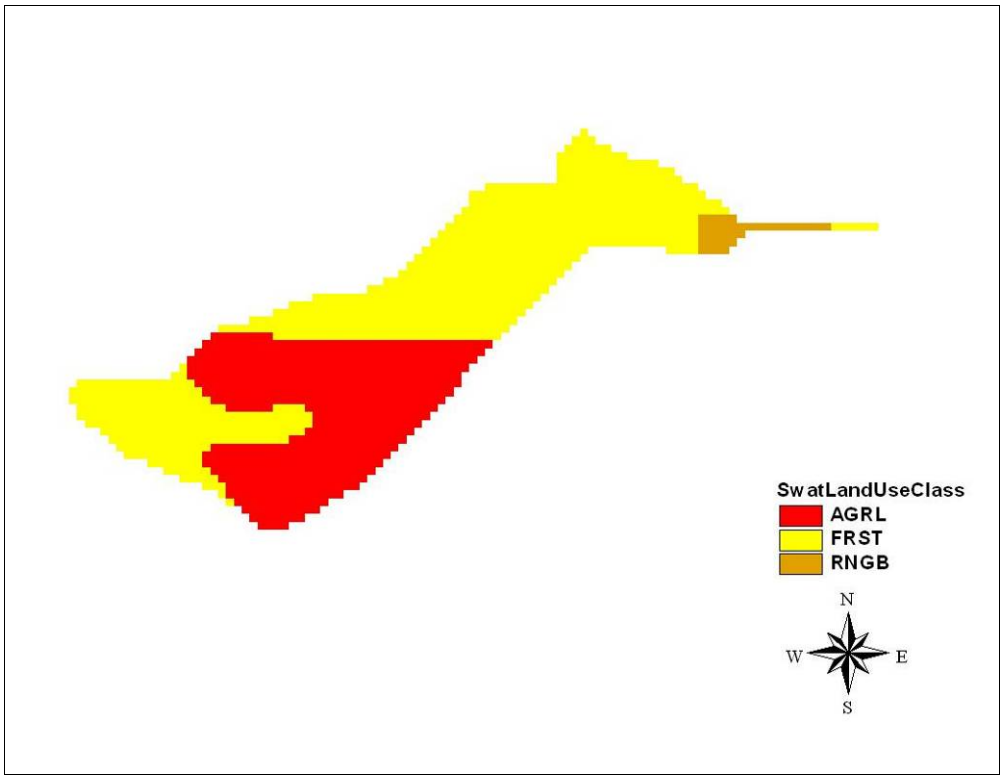


Fig AB.4: Soil Characteristics for Nine Mile River Watershed

1)



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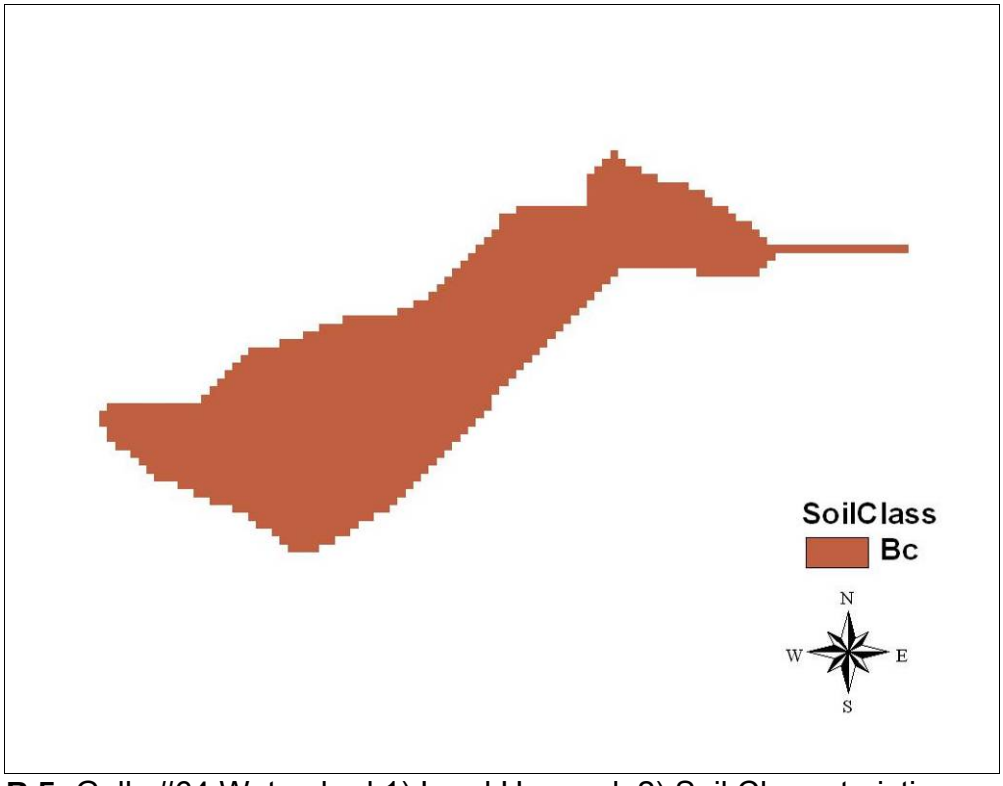
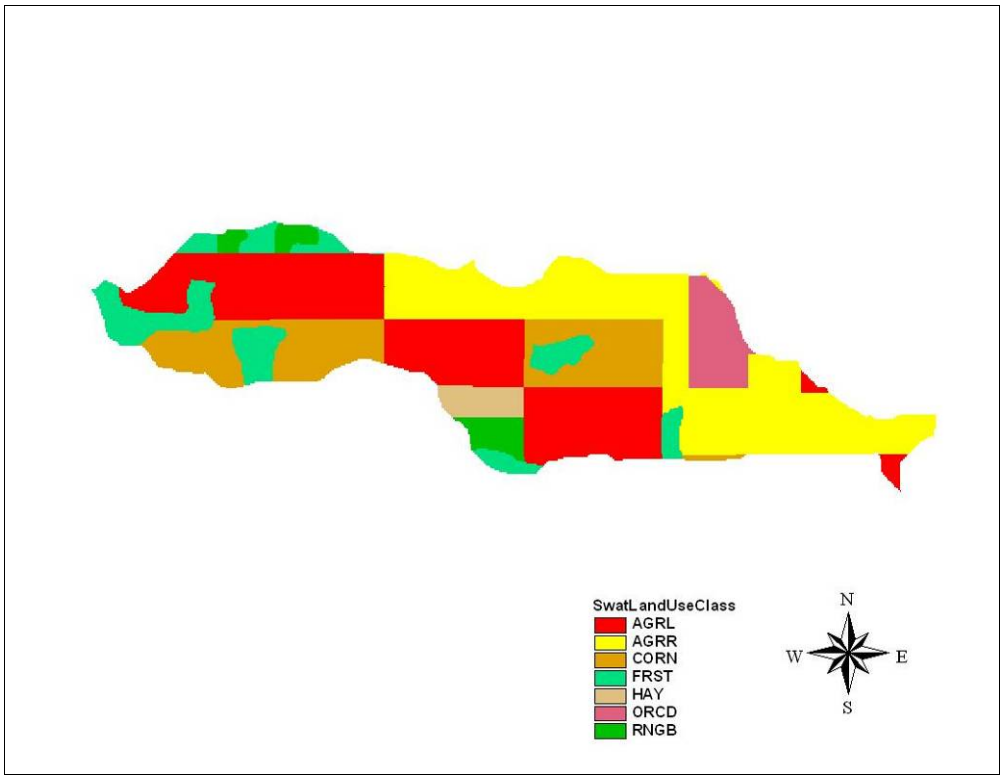


Fig AB.5: Gully #64 Watershed 1) Land Use and; 2) Soil Characteristics

1)



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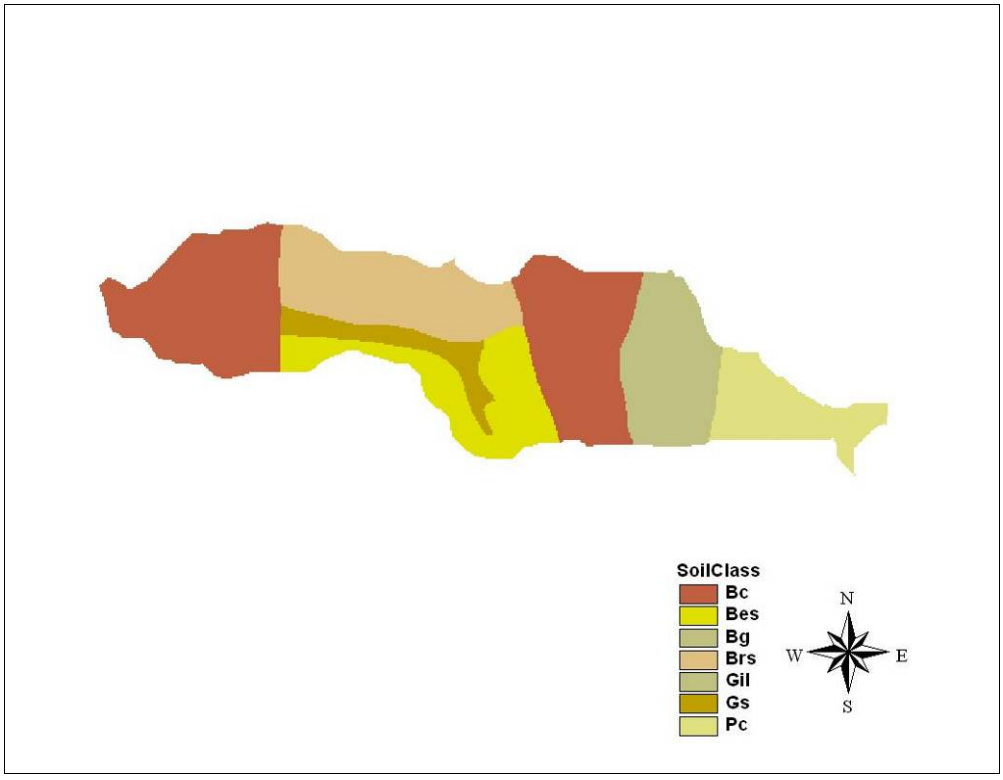
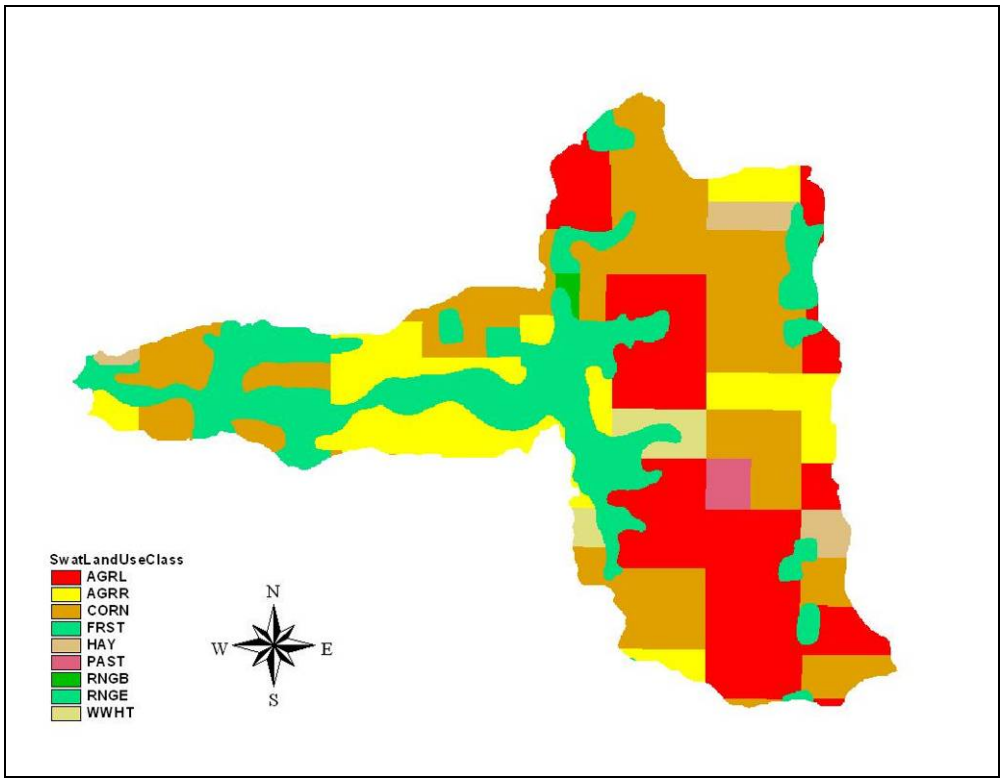


Fig AB.6: Gully #65 Watershed 1) Land Use and; 2) Soil Characteristics

1)



2)

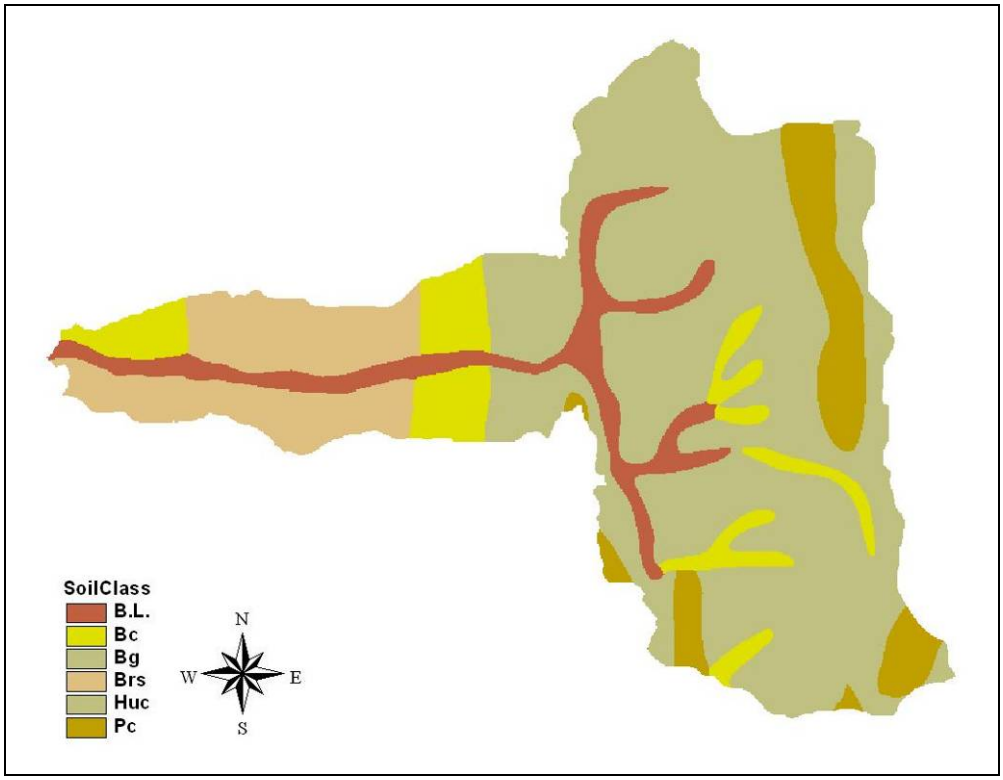
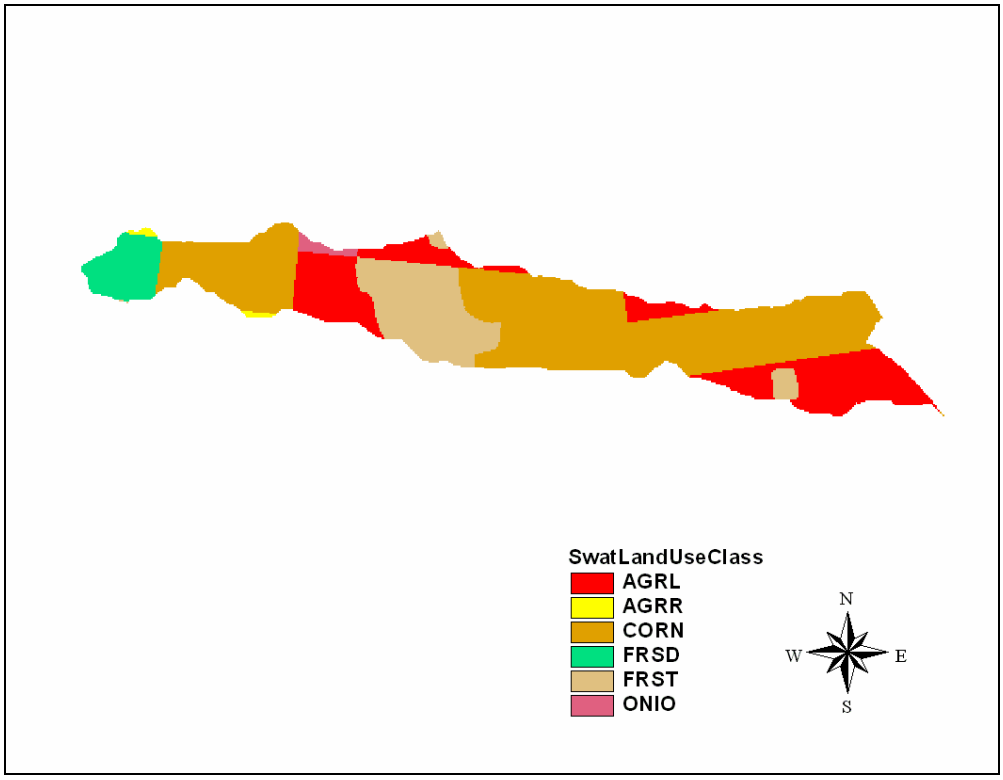


Fig AB.7: Gully Creek Watershed 1) Land Use and; 2) Soil Characteristics

1)



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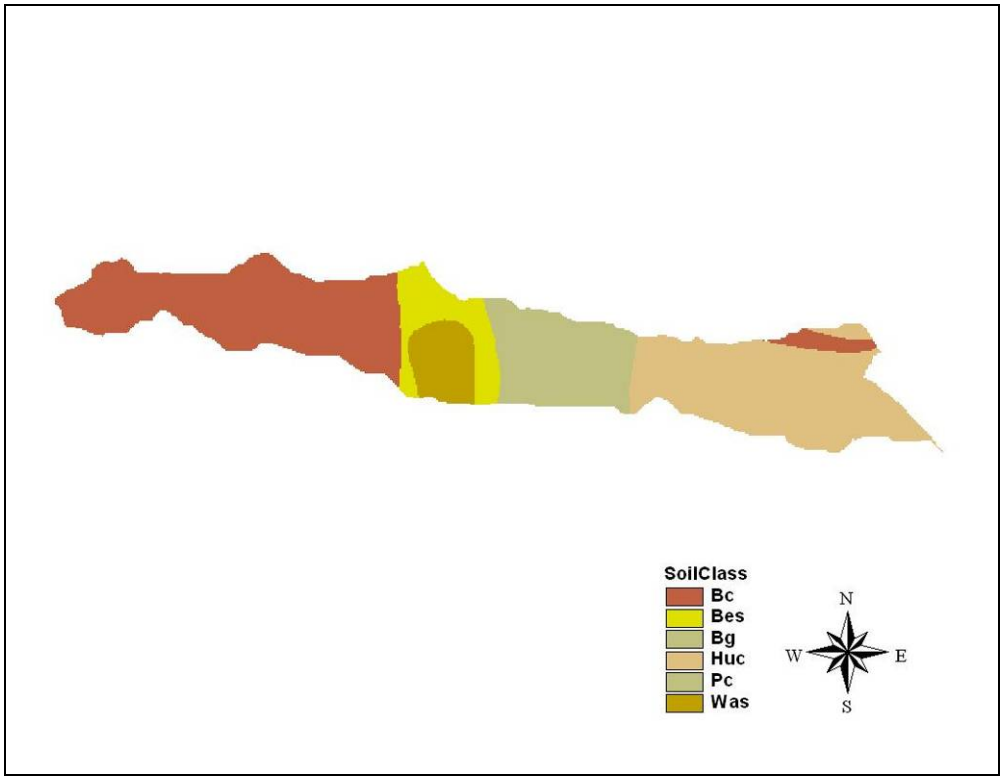
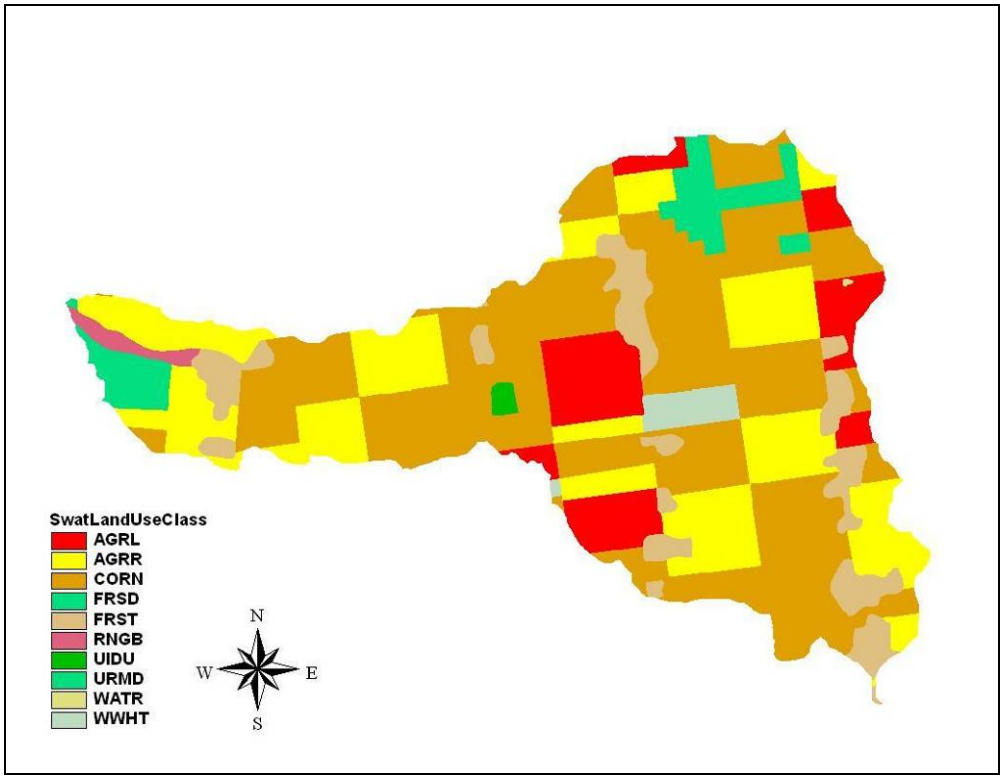


Fig AB.8: Momnersteg-Durand Drain Watershed 1) Land Use and; 2) Soil Characteristics

1)



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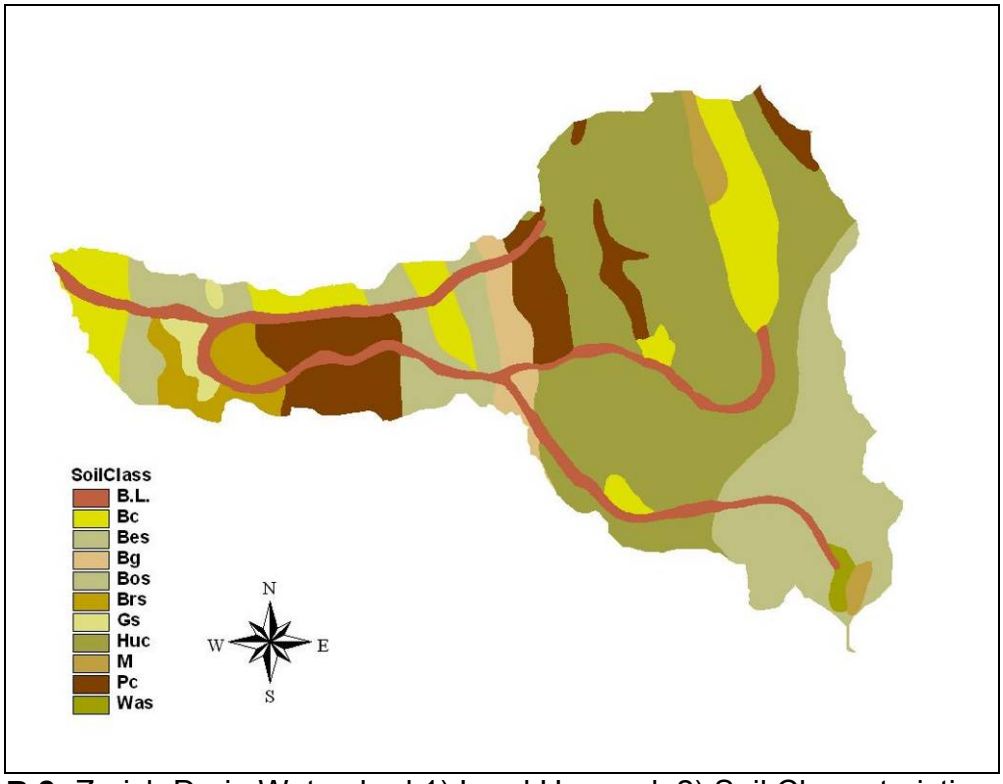
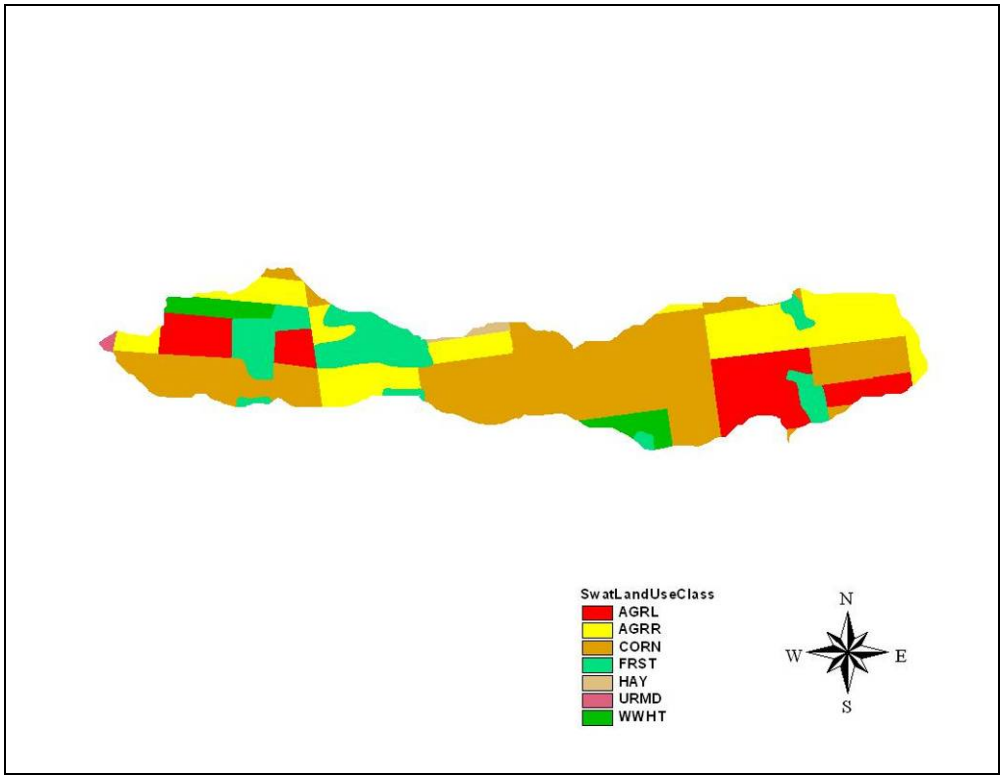


Fig AB.9: Zurich Drain Watershed 1) Land Use and; 2) Soil Characteristics

1)



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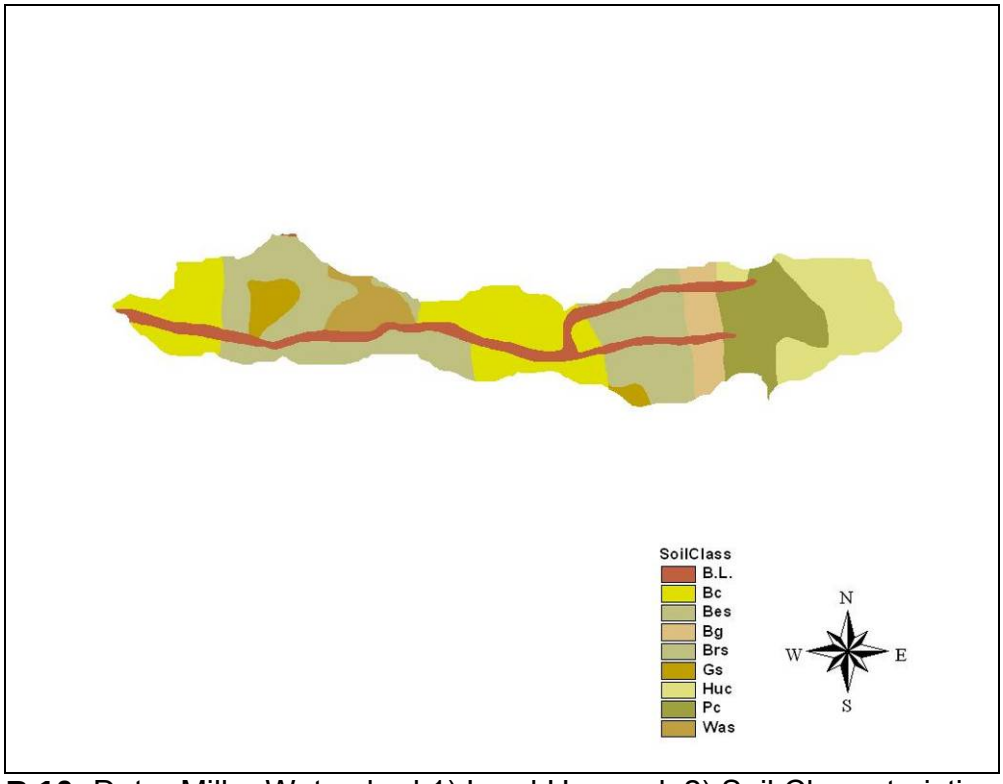

Fig AB.10: Datar Miller Watershed 1) Land Use and; 2) Soil Characteristics

APPENDIX C

Manual Streamgauging Measurements

Table AC.1: Field Measurements of the selected subwatersheds, with corresponding Levelogger readings.

Date	Boyd's Creek			Eighteen Mile			Kerry Creek			Nine Mile			Gully #64		Gully #65	
	Time	Streamflow (cms)	Water Level (cm)	Time	Streamflow (cms)	Water Level (m)	Time	Streamflow (cms)	Water Level (cm)	Time	Streamflow (cms)	Water Level (cm)	Time	Streamflow (cms)	Time	Streamflow (cms)
11/9/2005	1050	0.024		1110	0.058	0.30	1145	0.044		Not Measured			Not Measured		Not Measured	
11/18/2005	1000	0.151		1010	0.618	0.44	1045	0.209		1110	2.487		1300	I/F	1310	0.013
11/29/2005	0839	Dangerous Flows		0910	Dangerous Flows		0935	Dangerous Flows		0950	Dangerous Flows		1025	0.036	1045	0.236
1/24/2006	0940	0.362		1020	1.267		1045	0.412		1115	5.179		Not Measured		Not Measured	
1/30/2006	1257	3.372		1340	Dangerous Flows		1538	Dangerous Flows		1604	Dangerous Flows		Not Measured		Not Measured	
3/10/2006	0830	5.337		1000	Faulty Equipment		1030	2.990		1115	Faulty Equipment		1200	0.057	1205	0.462
3/13/2006	0830	11.714		1000	22.924		1030	3.211		1100	Faulty Equipment		1120	0.063	1145	0.357
4/6/2006	0840	0.221	34.40	0910	0.691		1000	0.197		1025	5.370		1115	0.017	1115	0.017
4/27/2006	1400	0.145	29.70	1406	0.682		1300	0.155		1227	4.763		1150	Low Flow	1135	0.008
5/12/2006	0842	0.012	24.90	0855	0.158	0.21	0940	0.060		1023	2.175		1139	Low Flow	1206	0.004
5/16/2006	1250	0.043	24.00	1300	0.107	0.18	1215	0.047		1135	1.679		1032	Low Flow	1015	0.004
6/20/2006	0838	Low Flow	17.90	0848	0.106	0.11	1105	Construction		1043	0.958		1130	Low Flow	1153	Low Flow
7/5/2006	1342	Low Flow	13.80	1354	0.002	0.04	1310	Construction		1255	0.414		1150	Low Flow	1130	Low Flow
7/10/2006	1040	0.005	21.10	1049	0.028	0.10	1230	Construction		1307	0.890		1345	Low Flow	1400	0.013
7/12/2006	1315	0.105	29.50	1325	0.130	0.19	1300	Construction		1217	2.961		1117	Low Flow	1105	0.035
8/1/2006	0826	Low Flow	16.10	0851	0.018	0.04	0936	Construction		1016	0.337		1238	Low Flow	1257	0.000
8/15/2006	1449	Low Flow	13.40	1456	-0.001	0.02	1415	0.014	29.20	1250	0.268		1210	Low Flow	1142	0.000
8/29/2006	0848	Low Flow	14.40	0855	0.001	0.06	0951	0.010	28.80	1025	0.321		1140	Low Flow	1156	0.000
9/15/2006	1319	Low Flow	14.00	1325	0.003	0.07	1212	0.016	31.10	1142	0.435	24.40	1105	Low Flow	1047	0.000
10/5/2006	0902	0.409	36.50	0927	0.533	0.28	1121	0.037	32.90	1200	1.116	33.70	1300	Low Flow	1311	0.016
10/18/2006	1350	1.055	46.00	1415	2.848	0.52	1300	0.533	48.20	1220	4.146	61.00	1130	Low Flow	1115	0.051
10/19/2006	0925	0.616	39.50	0901	1.410	0.40	1008	0.225	45.20	1040	3.256	55.00	1127	Low Flow	1138	0.036

Date	Gully Creek			MD Drain		Zurich Drain			Datar Miller	
	Time	Streamflow (cms)	Water Level (m)	Time	Streamflow (cms)	Time	Streamflow (cms)	Water Level (m)	Time	Streamflow (cms)
3/10/06		N/A		1847	0.393		N/A		1810	1.934
3/13/06	1245	1.355		1315	0.524	1400	7.500		1430	2.155
4/6/06	1130	0.219	0.196	1155	0.028	1303	0.457	0.339	1325	0.162
4/27/06	1100	0.132	0.124	1010	0.020	935	0.235	0.231	900	0.046
5/12/06	1226	0.066	0.112	1256	0.005	1324	0.061	0.127	1347	0.022
5/16/06	955	0.038	0.11	930	0.004	854	0.041	0.118	832	0.014
6/20/06	1211	0.027	0.087	1255	Low Flow	1320	0.034	0.083	1342	0.002
7/5/06	1110	0.016	0.149	1047	Low Flow	1010	0.006	-0.005	945	-0.003
7/10/06	1425	0.064	0.202	1445	Low Flow	1500	0.177	0.199	1525	0.003
7/12/06	1040	0.313	0.27	1015	0.008	950	0.029	0.128	930	0.005
8/1/06	1317	0.018	0.142	1349	Low Flow	1420	0.016	0.104	1449	-0.001
8/15/06	1059	0.018	0.091	1035	Low Flow	1005	0.006	0.061	920	-0.002
8/29/06	1221	0.018	0.111	1245	Low Flow	1340	0.000	0.05	1408	-0.005
9/15/06	1014	0.018	0.064	952	Low Flow	921	-0.004	0.095	850	-0.005
10/5/06	1333	0.108	0.126	1401	0.005	1435	0.125	0.233	1455	0.062
10/18/06	1050	0.351	0.217	1020	0.055	945	0.732	0.486	920	0.256
3/10/06	1210	0.180	0.169	1301	0.043	1328	0.415	0.387	1357	0.195

Table AC.2: Field Measurements for Maitland Valley sites, compared to the GAWSER Model Results.

Date	Boyd's Creek			Eighteen Mile River			Kerry Creek			Nine Mile River			Gully #64			Gully #65		
	Observed (cms)	Model (cms)	Difference (%)	Observed (cms)	Model (cms)	Difference (%)	Observed (cms)	Model (cms)	Difference (%)	Observed (cms)	Model (cms)	Difference (%)	Observed (cms)	Model (cms)	Difference (%)	Observed (cms)	Model (cms)	Difference (%)
11/9/2005	0.024	0.008	34.043	0.058	0.029	49.794	0.044	0.003	6.803	N/A			Not Measured			Not Measured		
11/18/2005	0.151	1.750	1160.862	0.618	3.308	534.985	0.209	0.892	425.816	2.487	7.765	312.175	Low Flow	0.000		0.013	0.005	39.063
11/29/2005	High Flows	1.641		High Flows	7.171		High Flows	5.767		High Flows	4.281		0.036	0.020	55.556	0.236	0.729	308.637
1/24/2006	0.362	0.583	160.892	1.267	1.499	118.320	0.412	0.241	58.541	5.179	6.964	134.479	Not Measured			Not Measured		
1/30/2006	3.372	3.425	101.557	High Flows	9.891		High Flows	5.530		High Flows	7.780		Not Measured			Not Measured		
3/10/2006	5.337	5.704	106.881	Faulty Equipment			2.990	8.928	298.555	Faulty Equipment			0.057	0.005	8.806	0.462	0.401	86.877
3/13/2006	11.714	2.781	23.741	22.924	10.836	47.270	3.211	5.184	161.452	Faulty Equipment			0.063	0.089	142.377	0.357	1.433	401.316
4/6/2006	0.221	0.377	170.230	0.691	0.62	89.711	0.197	0.363	184.564	5.370	15.352	285.891	0.017	0.002	11.905	0.017	0.019	113.095
4/27/2006	0.145	0.875	602.493	0.682	2.119	310.845	0.155	0.289	186.721	4.763	20.780	436.303	Low Flow	0.000		0.008	0.021	257.985
5/12/2006	0.012	0.304	2435.897	0.158	0.927	584.932	0.060	1.122	1859.001	2.175	5.545	254.896	Low Flow	0.000		0.004	0.010	256.575
5/16/2006	0.043	0.206	481.871	0.107	0.679	632.378	0.047	0.219	462.269	1.679	4.802	285.961	Low Flow	0.000		0.004	0.011	310.078
6/20/2006	Low Flow	0.018		0.106	0.196	184.319	Construction			0.958	2.295	239.663	Low Flow	0.000		Low Flow	0.010	
7/5/2006	Low Flow	0.014		0.002	0.124	5904.762	Construction			0.414	1.485	359.102	Low Flow	0.000		Low Flow	0.007	
7/10/2006	0.005	0.012	222.222	0.028	0.09	318.629	Construction			0.890	1.270	142.737	Low Flow	0.000		0.013	0.006	46.656
7/12/2006	0.105	0.012	11.479	0.130	0.081	62.344	Construction			2.961	1.297	43.806	Low Flow	0.000		0.035	0.006	17.291
8/1/2006	Low Flow	0.008		0.018	0.055	311.244	Construction			0.337	0.793	235.137	Low Flow	0.000		0.000	0.004	1190.476
8/15/2006	Low Flow	0.022		-0.001	0.058	-8992.248	0.014	0.007	51.565	0.268	0.821	306.343	Low Flow	0.000		0.000	0.003	-655.738
8/29/2006	Low Flow	0.007		0.001	0.044	4251.208	0.010	0.005	49.485	0.321	0.427	133.229	Low Flow	0.000		0.000	0.002	-1142.857
9/15/2006	Low Flow	0.005		0.003	0.036	1091.736	0.016	0.004	25.723	0.435	0.229	52.674	Low Flow	0.000		0.000	0.002	-540.541
10/5/2006	0.409	0.813	198.984	0.533	0.596	111.867	0.037	0.430	1167.606	1.116	1.763	158.001	Low Flow	0.000		0.016	0.020	128.535
10/18/2006	1.055	1.252	118.661	2.848	2.493	87.540	0.533	1.440	269.951	4.146	2.540	61.258	Low Flow	0.000		0.051	0.084	165.967
10/19/2006	0.616	0.969	157.286	1.410	1.902	134.921	0.225	0.625	277.757	3.256	3.618	111.118	Low Flow	0.000		0.036	0.014	39.084

Table AC.3: Field Measurements for Ausable Bayfield sites, compared to the GAWSER Model Results.

Date	Gully Creek			MD Drain			Zurich Drain			Datar Miller		
	Observed (cms)	Model	Difference (%)	Observed (cms)	Model	Difference (%)	Observed (cms)	Model	Difference (%)	Observed (cms)	Model	Difference (%)
3/10/06	Faulty Equipment			0.393	0.932	237.214	Faulty Equipment			1.934	3.128	161.702
3/13/06	1.355	4.917	363.012	0.524	0.186	35.467	7.500	6.240	83.200	2.155	2.705	125.547
4/6/06	0.219	0.184	84.141	0.028	0.018	63.269	0.457	0.372	81.322	0.162	0.099	60.949
4/27/06	0.132	0.205	155.539	0.020	0.022	112.647	0.235	0.340	144.921	0.046	0.100	217.723
5/12/06	0.066	0.124	188.593	0.005	0.011	212.355	0.061	0.204	334.289	0.022	0.050	232.019
5/16/06	0.038	0.106	276.186	0.004	0.010	274.725	0.041	0.146	354.679	0.014	0.041	300.917
6/20/06	0.027	0.027	101.332	Low Flow	0.002		0.034	0.026	76.674	0.002	0.005	312.500
7/5/06	0.016	0.017	104.519	Low Flow	0.001		0.006	0.012	201.681	-0.003	0.003	-114.965
7/10/06	0.064	0.014	21.774	Low Flow	0.001		0.177	0.098	55.232	0.003	0.005	176.991
7/12/06	0.313	0.014	4.471	0.008	0.001	12.987	0.029	0.105	363.888	0.005	0.006	125.000
8/1/06	0.018	0.007	39.268	Low Flow	0.000		0.016	0.013	82.982	-0.001	0.001	-77.280
8/15/06	0.018	0.006	34.119	Low Flow	0.000		0.006	0.038	670.194	-0.002	0.002	-125.000
8/29/06	0.018	0.004	22.353	Low Flow	0.000		0.000	0.015	-3846.154	-0.005	0.001	-18.450
9/15/06	0.018	0.002	11.109	Low Flow	0.000		-0.004	0.008	-203.433	-0.005	0.001	-21.008
10/5/06	0.108	0.016	14.863	0.005	0.004	75.315	0.125	0.129	103.159	0.062	0.020	32.158
10/18/06	0.351	0.014	3.988	0.055	0.001	1.822	0.732	0.132	18.040	0.256	0.009	3.513
10/19/06	0.180	0.018	10.000	0.043	0.001	2.334	0.415	0.108	26.013	0.195	0.014	7.179

Table AC.4: Field Measurements for Ausable Bayfield sites, done for the Nutrient Management Program, compared to the GAWSER Model Results.

Date	Zurich Drain		
	Streamflow (cms)	Model	Difference
4/3/06	0.204	0.286	140.072
4/18/06	0.156	0.203	129.928
4/24/06	0.279	0.269	96.457
4/27/06	0.235	0.163	69.477
5/3/06	0.082	0.121	146.987
5/11/06	0.089	0.182	204.082
5/17/06	0.058	0.068	116.748
5/31/06	0.041	0.032	77.973
6/15/06	0.010	0.021	210.000
6/19/06	0.009	0.038	413.043
7/10/06	0.182	0.123	67.413
7/20/06	0.002	0.020	842.105
7/25/06	0.003	0.019	719.697
7/27/06	0.153	0.199	130.210
8/3/06	0.899	0.264	29.358
8/17/06	0.005	0.026	577.778
9/13/06	0.000	0.044	-24444.444
9/25/06	0.012	0.072	596.520
10/4/06	0.151	0.324	214.158
10/11/06	0.048	0.141	291.563
10/18/06	0.447	1.101	246.364

APPENDIX D

Rainfall Event Model GAWSER Output

Table AD.1: Modeled Peak Discharges for specific 25 mm rainfall events for Eighteen Mile River and Boyd Creek.

Date	Rainfall Event (mm)	Peak Discharge (cms)	
		Eighteen Mile River	Boyd Creek
7/14/1961	24.8	0.101	0.118
7/16/1961	25	0.1	0.072
8/13/1963	24.9	0.027	0.006
4/18/1969	25.3	4.787	2.098
7/25/1969	23.8	0.155	0.015
10/13/1969	25.4	0.038	0.019
7/20/1970	24.5	0.125	0.016
5/8/1973	26.2	6.929	2.583
10/6/1976	26.2	0.032	0.014
9/19/1977	25.3	0.083	0.013
5/20/1978	25	6.233	2.611
6/19/1978	24	0.228	0.019
8/9/1978	26	0.038	0.009
4/27/1979	23.6	3.769	1.54
6/7/1980	24	0.19	0.019
9/17/1980	25.1	0.03	0.008
4/15/1981	23.6	5.471	2.066
5/11/1981	25	9.558	4.329
4/4/1985	26.4	7.028	2.602
9/5/1985	25.6	2.029	1.275
6/11/1986	25.1	5.617	3.481
8/26/1986	25.5	0.152	0.015
9/11/1987	23.5	0.086	0.013
7/30/1988	26.3	0.045	0.006
9/17/1988	26	0.024	0.263
10/2/1988	26.3	0.357	0.388
5/27/1991	23.9	0.195	0.086
9/2/1993	24.9	0.174	0.649
7/14/1997	26.3	0.24	0.029
8/22/2000	24.9	0.16	0.096
7/1/2001	23.5	0.231	0.018
5/16/2002	24.9	12.362	3.891

Table AD.2: Modelled Peak Discharges for specific 25 mm rainfall events for Kerry Creek, Gully #64, and Gully #65.

Date	Rainfall Event (mm)	Peak Discharge (cms)		
		Kerry Creek	Gully #65	Gully #64
6/12/1961	24	0.016	0.006	0
8/2/1965	24.2	0.004	0.002	0
9/18/1972	25.7	0.002	0.001	0.007
9/29/1974	25.2	0.006	0.012	0.013
10/14/1974	25.9	0	0	0
4/24/1976	25.9	7.575	0.731	0.024
10/6/1976	24.6	0.005	0.002	0
8/25/1982	24.2	0.001	0	0
9/2/1984	25.8	0.166	0.125	0.134
6/16/1985	25.8	0.006	0.003	0
9/18/2001	25.9	0.005	0.003	0
5/16/2002	25.2	4.244	0.182	0

Table AD.2: Modelled Peak Discharges for specific 25 mm rainfall events for ABCA watershed streams.

Date	**Rainfall Amount (mm)**	**Peak Discharge (cms)**			
		Gully Creek	**MD Drain**	**Zurich Drain**	**Datar Miller**
6/1/1961	25.4	0.213	0.339	0.608	0.587
7/13/1961	24.9	0.01	0.003	0.193	0.019
9/9/1965	26.2	0.014	0.005	0.166	0.023
6/25/1968	24.9	1.253	0.331	1.546	0.574
5/26/1970	25	8.527	1.808	10.974	4.245
9/15/1970	26.2	0.016	0.005	0.163	0.023
8/22/1971	24.9	0.016	0.005	0.188	0.024
6/15/1972	24.9	0.016	0.332	1.341	0.575
6/15/1975	24.3	3.201	0.165	2.22	0.307
8/29/1975	24.1	3.289	0.976	4.663	2.168
8/14/1976	24.4	0.018	0.005	0.187	0.024
6/19/1980	25	1.854	0.608	2.415	1.175
5/10/1981	25	4.975	0.217	1.078	0.399
10/19/1981	25.5	2.727	1.118	3.998	2.668
8/1/1983	24	0.017	0.005	0.179	0.025
8/18/1984	25	0.016	0.005	0.189	0.025
6/22/1987	25	1.131	0.311	1.438	0.539
7/16/1988	25.1	0.027	0.005	0.271	0.027
5/26/1989	25	3.882	0.839	5.318	1.668
10/10/1989	25.7	0.073	0.038	0.244	0.089
10/19/1994	25.1	0.59	0.642	0.764	1.167
9/20/2002	25.8	0.117	0.06	0.332	0.127

Table AD.3: Hourly discharge of Eighteen Mile River and Boyd Creek for a 25 mm rainfall event.

Time 7/16/1961 @ 10:00	Rainfall Event (mm)	Discharge (cms)		Time 8/13/1963 @ 20:00	Rainfall Event (mm)	Discharge (cms)		Time 4/18/1969 @ 0:00	Rainfall Event (mm)	Discharge (cms)		Time 6/11/1986 @ 19:00	Rainfall Event (mm)	Discharge (cms)		Time 10/2/1988 @ 3:00	Rainfall Event (mm)	Discharge (cms)		Time 9/2/1993 @ 14:00	Rainfall Event (mm)	Discharge (cms)		Time 5/16/2002 @ 16:00	Rainfall Event (mm)	Discharge (cms)	
		Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek			Eighteen Mile River	Boyd Creek
9:00		0.1	0.072	19:00		0.027	0.006	23:00		0.409	0.123	18:00		0.22	0.018	2:00		0.021	0.02	13:00		0.034	0.005	15:00		5.215	0.983
10:00	81	0.1	0.071	20:00	2	0.027	0.006	0:00	23	0.412	0.123	19:00	11	0.22	0.018	3:00	47	0.021	0.02	14:00	25	0.034	0.005	16:00	24.9	5.248	0.97
11:00	169	0.099	0.07	21:00	28	0.027	0.006	1:00	31	0.441	0.122	20:00	205	0.22	0.018	4:00	31	0.021	0.019	15:00	224	0.034	0.005	17:00		6.22	0.972
12:00	0	0.099	0.07	22:00	193	0.027	0.006	2:00	23	0.489	0.123	21:00	35	0.873	0.018	5:00	98	0.021	0.019	16:00		0.039	0.005	18:00		6.467	1.047
13:00	0	0.099	0.069	23:00	26	0.027	0.006	3:00	20	0.54	0.123	22:00		1.235	0.018	6:00	40	0.021	0.019	17:00		0.034	0.005	19:00		6.658	1.215
14:00	0	0.099	0.068	0:00		0.027	0.006	4:00	35	0.658	0.123	23:00		1.332	0.018	7:00	21	0.026	0.019	18:00		0.036	0.005	20:00		7.967	1.357
15:00	0	0.099	0.068	1:00		0.027	0.006	5:00	82	0.876	0.123	0:00		2.199	0.018	8:00	10	0.058	0.019	19:00		0.061	0.005	21:00		8.641	1.386
16:00	0	0.099	0.067	2:00		0.027	0.006	6:00	35	1.314	0.123	1:00		2.683	0.018	9:00	16	0.084	0.019	20:00		0.078	0.005	22:00		9.445	1.367
17:00	9	0.099	0.067	3:00		0.027	0.006	7:00	0	1.684	0.126	2:00		3.224	0.018	10:00		0.122	0.018	21:00		0.084	0.005	23:00		10.535	1.349
18:00		0.099	0.066	4:00		0.027	0.006	8:00	4	1.993	0.131	3:00		4.002	0.018	11:00		0.172	0.018	22:00		0.082	0.005	0:00		11.465	1.331
19:00		0.099	0.065	5:00		0.027	0.006	9:00		2.589	0.136	4:00		4.731	0.018	12:00		0.218	0.018	23:00		0.094	0.005	1:00		12.044	1.314
20:00		0.099	0.065	6:00		0.027	0.006	10:00		3.157	0.137	5:00		5.232	0.018	13:00		0.272	0.018	0:00		0.123	0.005	2:00		12.309	1.297
21:00		0.099	0.064	7:00		0.027	0.006	11:00		3.442	0.137	6:00		5.501	0.018	14:00		0.306	0.018	1:00		0.15	0.005	3:00		12.362	1.281
22:00		0.099	0.064	8:00		0.027	0.006	12:00		3.53	0.136	7:00		5.607	0.018	15:00		0.327	0.018	2:00		0.165	0.005	4:00		12.294	1.527
23:00		0.099	0.063	9:00		0.027	0.006	13:00		3.699	0.145	8:00		5.617	0.018	16:00		0.339	0.018	3:00		0.171	0.005	5:00		12.162	2.488
0:00		0.099	0.062	10:00		0.027	0.006	14:00		4.074	0.186	9:00		5.575	0.596	17:00		0.343	0.017	4:00		0.174	0.005	6:00		12	3.556
1:00		0.099	0.062	11:00		0.027	0.006	15:00		4.462	0.267	10:00		5.509	2.351	18:00		0.344	0.017	5:00		0.174	0.005	7:00		11.824	3.891
2:00		0.099	0.061	12:00		0.026	0.006	16:00		4.695	0.386	11:00		5.433	3.566	19:00		0.341	0.017	6:00		0.173	0.005	8:00		11.642	3.835
3:00		0.099	0.061	13:00		0.026	0.006	17:00		4.784	0.573	12:00		5.352	3.581	20:00		0.338	0.017	7:00		0.172	0.005	9:00		11.459	3.78
4:00		0.099	0.06	14:00		0.026	0.006	18:00		4.787	0.924	13:00		5.27	3.531	21:00		0.334	0.023	8:00		0.171	0.005	10:00		11.277	3.726
5:00		0.099	0.06	15:00		0.026	0.006	19:00		4.75	1.48	14:00		5.189	3.481	22:00		0.329	0.054	9:00		0.17	0.005	11:00		11.097	3.673
6:00		0.099	0.059	16:00		0.026	0.006	20:00		4.707	1.947	15:00		5.108	3.432	23:00		0.33	0.123	10:00		0.168	0.109	12:00		10.919	3.62
7:00		0.099	0.059	17:00		0.026	0.006	21:00		4.648	2.098	16:00		5.03	3.383	0:00		0.336	0.208	11:00		0.167	0.423	13:00		10.745	3.567
8:00		0.099	0.058	18:00		0.026	0.006	22:00		4.593	2.09	17:00		4.952	3.335	1:00		0.335	0.283	12:00		0.166	0.644	14:00		10.574	3.514
9:00		0.099	0.058	19:00		0.026	0.006	23:00		4.567	2.061	18:00		4.876	3.288	2:00		0.339	0.347	13:00		0.164	0.649	15:00		10.406	3.462
10:00		0.099	0.057	20:00		0.026	0.006	0:00		4.531	2.033	19:00		4.801	3.242	3:00		0.348	0.383	14:00		0.163	0.643	16:00		10.24	3.411
11:00			0.057	21:00			0.006	1:00		4.483	2.005	20:00		4.727	3.196	4:00		0.353	0.388	15:00		0.162	0.637	17:00		10.078	3.36
12:00			0.056	22:00			0.006	2:00		4.457	1.978	21:00		4.655	3.151	5:00		0.355	0.384	16:00		0.161	0.631	18:00		9.919	3.31
13:00			0.056	23:00			0.006	3:00		4.438	1.951	22:00		4.586	3.106	6:00		0.355	0.38	17:00		0.159	0.625	19:00		9.762	3.26
14:00			0.055	0:00			0.006	4:00		4.399	1.925	23:00		4.517	3.062	7:00		0.352	0.375	18:00		0.158	0.619	20:00		9.608	3.212
15:00			0.055	1:00			0.006	5:00		4.344	1.9	0:00		4.449	3.019	8:00		0.349	0.371	19:00		0.157	0.614	21:00		9.457	3.164
16:00			0.054	2:00			0.006	6:00		4.293	1.877	1:00		4.382	2.976	9:00		0.353	0.367	20:00		0.156	0.608	22:00		9.309	3.117
17:00			0.054	3:00			0.006	7:00		4.26	1.857	2:00		4.316	2.934	10:00		0.353	0.363	21:00		0.154	0.602	23:00		9.163	3.07
18:00			0.053	4:00			0.006	8:00		4.23	1.845	3:00		4.251	2.892	11:00		0.349	0.359	22:00		0.153	0.596	0:00		9.02	3.025
19:00			0.053	5:00			0.006	9:00		4.188	1.842	4:00		4.187	2.851	12:00		0.355	0.355	23:00		0.152	0.591	1:00		8.88	2.98
20:00			0.052	6:00			0.006	10:00		4.135	1.834	5:00		4.124	2.811	13:00		0.357	0.351	0:00		0.151	0.585	2:00		8.741	2.935
21:00			0.052					11:00		4.076	1.826	6:00		4.062	2.771	14:00		0.356	0.35	1:00		0.15	0.58	3:00		8.606	2.892
22:00			0.051					12:00		4.014	1.838	7:00		4.002	2.732	15:00		0.355	0.359	2:00		0.149	0.574	4:00		8.472	2.848
23:00			0.051					13:00		3.951	1.853	8:00		3.942	2.693	16:00		0.352	0.376	3:00		0.147	0.569	5:00		8.341	2.806
0:00			0.051					14:00		3.889	1.844	9:00		3.884	2.655	17:00		0.348	0.387	4:00		0.146	0.564	6:00		8.213	2.764
1:00			0.05					15:00		3.828	1.821	10:00		3.826	2.618	18:00		0.344	0.387	5:00		0.145	0.558	7:00		8.086	2.723
2:00			0.05					16:00		3.767	1.795	11:00		3.769	2.581	19:00		0.339	0.383	6:00		0.144	0.553	8:00		7.962	2.683
3:00			0.049					17:00		3.708	1.77	12:00			2.544	20:00		0.334	0.378	7:00		0.143	0.548	9:00		7.84	2.643
4:00			0.049					18:00		3.65	1.746	13:00			2.508	21:00		0.33	0.374	8:00		0.142	0.543	10:00		7.72	2.603
5:00			0.048					19:00		3.592	1.721	14:00			2.473	22:00		0.325	0.37	9:00		0.141	0.538	11:00		7.602	2.565

Table AD.4: Hourly discharge of Kerry Creek, Gully #64, and Gully #65 for a 25 mm rainfall event.

Time 10/6/1976 @ 8:00	Rainfall Event (mm)	Discharge (cms)			Time 8/25/1982 @1:00	Rainfall Event (mm)	Discharge (cms)			Time 9/2/1984 @ 15:00	Rainfall Event (mm)	Discharge (cms)			Time 6/16/1985 @ 6:00	Rainfall Event (mm)	Discharge (cms)			Time 5/16/2002 @ 4:00	Rainfall Event (mm)	Discharge (cms)		
		Kerry Creek	Gully #64	Gully #65			Kerry Creek	Gully #64	Gully #65			Kerry Creek	Gully #64	Gully #65			Kerry Creek	Gully #64	Gully #65			Kerry Creek	Gully #64	Gully #65
7:00		0.005	0	0.002	0:00		0.001	0	0	14:00		0.001	0	0	5:00		0.006	0	0.003			0.275	0	0.013
8:00	5	0.005	0	0.002	1:00	121	0.001	0	0	15:00	2	0.001	0	0	6:00	53	0.006	0	0.003	4:00	5	0.268	0	0.013
9:00	37	0.005	0	0.002	2:00	110	0.001	0	0	16:00	256	0.001	0	0	7:00	21	0.006	0	0.003	5:00	49	0.264	0	0.013
10:00	26	0.005	0	0.002	3:00	11	0.001	0	0	17:00		0.001	0	0	8:00	3	0.006	0	0.003	6:00	157	0.382	0	0.013
11:00	21	0.005	0	0.002	4:00		0.001	0	0	18:00		0.001	0	0	9:00	40	0.006	0	0.003	7:00	41	0.98	0	0.061
12:00	37	0.005	0	0.002	5:00		0.001	0	0	19:00		0.001	0	0	10:00	91	0.006	0	0.003	8:00	0	1.721	0	0.152
13:00	29	0.005	0	0.002	6:00		0.001	0	0	20:00		0.001	0	0	11:00	40	0.006	0	0.003	9:00	0	2.299	0	0.182
14:00	24	0.005	0	0.002	7:00		0.001	0	0	21:00		0.001	0	0	12:00	10	0.006	0	0.003	10:00	0	2.936	0	0.159
15:00	14	0.005	0	0.002	8:00		0.001	0	0	22:00		0.001	0.014	0	13:00		0.006	0	0.003	11:00	0	3.446	0	0.14
16:00	26	0.005	0	0.002	9:00		0.001	0	0	23:00		0.008	0.102	0.009	14:00		0.006	0	0.003	12:00	0	3.778	0	0.123
17:00	5	0.005	0	0.002	10:00		0.001	0	0	0:00		0.021	0.134	0.075	15:00		0.006	0	0.003	13:00	0	4.077	0	0.108
18:00	8	0.005	0	0.002	11:00		0.001	0	0	1:00		0.037	0.085	0.125	16:00		0.006	0	0.003	14:00	0	4.244	0	0.095
19:00	10	0.005	0	0.002	12:00		0.001	0	0	2:00		0.045	0.054	0.114	17:00		0.006	0	0.003	15:00	33	4.183	0	0.084
20:00		0.005	0	0.002	13:00		0.001	0	0	3:00		0.048	0.034	0.104	18:00		0.006	0	0.003	16:00	13	4.099	0	0.097
21:00		0.005	0	0.002	14:00		0.001	0	0	4:00		0.057	0.022	0.095	19:00		0.006	0	0.003	17:00	5	4.069	0	0.123
22:00		0.005	0	0.002	15:00		0.001	0	0	5:00		0.075	0.014	0.087	20:00		0.006	0	0.003	18:00		4.04	0	0.131
23:00		0.005	0	0.002	16:00		0.001		0	6:00		0.1	0.009	0.079	21:00		0.006	0	0.003	19:00		4.044	0	0.12
0:00		0.005	0	0.002	17:00		0.001		0	7:00		0.123	0.005	0.073	22:00		0.006	0	0.003	20:00		4.032	0	0.106
1:00		0.005	0	0.002	18:00		0.001		0	8:00		0.14	0.003	0.066	23:00		0.006	0	0.003	21:00		3.98	0	0.093
2:00		0.005	0	0.002	19:00		0.001		0	9:00		0.154	0.002	0.061	0:00		0.006	0	0.003	22:00		3.916	0	0.083
3:00		0.005	0	0.002	20:00		0.001		0	10:00		0.164	0.001	0.055	1:00		0.006	0	0.003	23:00		3.83	0	0.073
4:00		0.005	0	0.002	21:00		0.001		0	11:00		0.166	0.001	0.051	2:00		0.006	0	0.003	0:00		3.697	0	0.065
5:00		0.005	0	0.002	22:00		0.001		0	12:00		0.163	0.001	0.046	3:00		0.006	0	0.003	1:00		3.532	0	0.058
6:00		0.005	0	0.002	23:00		0.001		0	13:00		0.158	0	0.042	4:00		0.006		0.003	2:00		3.358		0.052
7:00		0.005	0	0.002	0:00		0.001		0	14:00		0.153	0	0.039	5:00		0.006		0.003	3:00		3.19		0.047
8:00		0.005	0		1:00		0.001		0	15:00		0.148		0.035	6:00		0.006		0.003	4:00		3.03		0.042
9:00		0.005	0		2:00		0.001		0	16:00		0.143		0.032	7:00		0.006		0.003	5:00		2.878		0.038
10:00		0.005			3:00		0.001		0	17:00		0.138		0.029	8:00		0.006		0.003	6:00		2.734		0.035
11:00		0.005			4:00		0.001			18:00		0.133		0.027	9:00		0.006		0.003	7:00		2.598		0.032
12:00		0.005			5:00		0.001			19:00		0.128		0.025	10:00		0.006		0.003	8:00		2.469		0.029
13:00		0.005								20:00		0.123		0.022	11:00		0.006		0.003	9:00		2.348		0.027
14:00		0.005								21:00		0.119		0.021	12:00		0.006		0.003	10:00		2.234		0.025
										22:00		0.115		0.019	13:00		0.006		0.003	11:00		2.126		0.024
										23:00		0.111		0.017	14:00		0.006		0.003	12:00		2.024		0.022
										0:00		0.107		0.016	15:00		0.006		0.003	13:00		1.929		0.021
										1:00		0.103		0.014	16:00		0.006		0.003	14:00		1.839		0.02
										2:00		0.099		0.013	17:00		0.006		0.003	15:00		1.754		0.019
										3:00		0.096		0.012	18:00		0.006		0.003	16:00		1.674		0.018
										4:00		0.092		0.011	19:00		0.006		0.003	17:00		1.599		0.017
										5:00		0.089		0.01	20:00		0.006		0.003	18:00		1.527		0.017
										6:00		0.086		0.009	21:00		0.006		0.003	19:00		1.459		0.016
										7:00		0.083		0.008	22:00		0.006		0.003	20:00		1.395		0.016
										8:00		0.08			23:00		0.006		0.003	21:00		1.334		0.015
										9:00		0.078			0:00					22:00		1.276		0.015
										10:00		0.075			1:00					23:00		1.22		0.015

Table AD.5: Hourly discharge of selected subwatersheds in the ABCA watershed for a 25 mm rainfall event.

Time 19/06/80 @ 13:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 8/18/84 @ 12:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 22/06/87 @ 13:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 15/07/88 @ 18:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 26/05/89 @ 0:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 18/10/94 @ 21:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 20/09/02 @ 14:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)			
		Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller
12:00:00		0.026	0.005	0.021	0.018	11:00:00		0.016	0.005	0.02	0.018	12:00:00		0.03	0.005	0.02	0.018	17:00:00		0.022	0.005	0.042	0.019	23:00:00		0.053	0.05	0.042	0.018	20:00:00		0.094	0.06	0.101	0.024	13:00:00		0.024	0.005	0.059	0.02
13:00:00	194	0.026	0.005	0.021	0.018	12:00:00	5	0.016	0.005	0.02	0.019	13:00:00	194	0.03	0.005	0.02	0.018	18:00:00	3	0.022	0.005	0.042	0.019	00:00:00	189	0.053	0.005	0.042	0.018	21:00:00	4	0.095	0.06	0.101	0.024	14:00:00	258	0.024	0.005	0.058	0.02
14:00:00	43	0.026	0.005	0.021	0.018	13:00:00	245	0.016	0.005	0.02	0.021	14:00:00	43	0.03	0.005	0.02	0.018	19:00:00	41	0.022	0.005	0.041	0.021	01:00:00	38	0.053	0.313	1.033	0.602	22:00:00	7	0.095	0.06	0.101	0.024	15:00:00	0	0.024	0.005	0.089	0.02
15:00:00	13	0.026	0.005	0.021	0.018	14:00:00		0.016	0.005	0.026	0.022	15:00:00	13	0.03	0.005	0.02	0.018	20:00:00	174	0.022	0.005	0.051	0.026	02:00:00	23	0.053	0.706	2.887	1.359	23:00:00	11	0.095	0.06	0.1	0.024	16:00:00	0	0.025	0.035	0.136	0.076
16:00:00		0.026	0.005	0.021	0.018	15:00:00		0.016	0.005	0.044	0.023	16:00:00		0.03	0.005	0.02	0.018	21:00:00	30	0.022	0.005	0.078	0.027	03:00:00		0.053	0.839	4.386	1.636	00:00:00	7	0.095	0.006	0.101	0.025	17:00:00	0	0.025	0.06	0.189	0.127
17:00:00		0.026	0.005	0.021	0.018	16:00:00		0.016	0.005	0.072	0.024	17:00:00		0.03	0.005	0.02	0.018	22:00:00	3	0.022	0.005	0.125	0.027	04:00:00		0.053	0.828	5.182	1.668	01:00:00	28	0.095	0.006	0.104	0.025	18:00:00	0	0.025	0.054	0.248	0.12
18:00:00		0.026	0.005	0.021	0.018	17:00:00		0.015	0.005	0.1	0.025	18:00:00		0.03	0.005	0.02	0.018	23:00:00		0.022	0.005	0.179	0.027	05:00:00		0.315	0.736	5.318	1.552	02:00:00	7	0.095	0.006	0.109	0.026	19:00:00	11	0.025	0.049	0.294	0.113
19:00:00		0.026	0.005	0.021	0.018	18:00:00		0.015	0.005	0.131	0.025	19:00:00		0.03	0.005	0.02	0.018	00:00:00		0.022	0.005	0.223	0.027	06:00:00		1.161	0.654	5.14	1.444	03:00:00	26	0.095	0.006	0.118	0.027	20:00:00	0	0.025	0.045	0.326	0.107
20:00:00		0.026	0.005	0.021	0.018	19:00:00		0.015	0.005	0.158	0.024	20:00:00		0.03	0.005	0.02	0.018	01:00:00		0.022	0.005	0.253	0.027	07:00:00		2.345	0.582	4.866	1.344	04:00:00	92	0.095	0.006	0.13	0.027	21:00:00	56	0.05	0.041	0.332	0.102
21:00:00		0.026	0.005	0.021	0.018	20:00:00		0.015	0.005	0.176	0.024	21:00:00		0.03	0.005	0.02	0.018	02:00:00		0.022	0.005	0.267	0.026	08:00:00		3.344	0.518	4.59	1.25	05:00:00	61	0.095	0.159	0.17	0.288	22:00:00	11	0.076	0.037	0.324	0.097
22:00:00		0.026	0.005	0.021	0.018	21:00:00		0.015	0.005	0.186	0.024	22:00:00		0.03	0.005	0.02	0.018	03:00:00		0.022	0.005	0.271	0.026	09:00:00		3.844	0.461	4.332	1.164	06:00:00	4	0.095	0.498	0.329	0.88	23:00:00		0.075	0.034	0.317	0.093
23:00:00		0.026	0.005	0.021	0.018	22:00:00		0.015	0.005	0.189	0.023	23:00:00		0.03	0.005	0.02	0.018	04:00:00		0.022	0.005	0.269	0.025	10:00:00		3.882	0.41	4.093	1.083	07:00:00	4	0.095	0.642	0.513	1.167	00:00:00		0.088	0.031	0.316	0.089
00:00:00		0.026	0.005	0.021	0.018	23:00:00		0.015	0.005	0.187	0.023	00:00:00		0.03	0.005	0.02	0.018	05:00:00		0.022	0.005	0.264	0.025	11:00:00		3.705	0.365	3.872	1.008	08:00:00		0.096	0.568	0.616	1.083	01:00:00		0.11	0.028	0.317	0.085
01:00:00		0.026	0.005	0.021	0.018	00:00:00		0.015	0.005	0.182	0.023	01:00:00		0.03	0.005	0.02	0.018	06:00:00		0.022	0.005	0.258	0.025	12:00:00		3.472	0.325	3.668	0.939	09:00:00		0.096	0.503	0.687	1.006	02:00:00		0.12	0.026	0.317	0.081
02:00:00		0.026	0.005	0.021	0.018	01:00:00		0.015	0.005	0.178	0.023	02:00:00		0.03	0.005	0.02	0.018	07:00:00		0.022	0.005	0.249	0.024	13:00:00		3.243	0.289	3.477	0.874	10:00:00		0.108	0.446	0.742	0.935	03:00:00		0.12	0.024	0.315	0.077
03:00:00		0.026	0.005	0.02	0.018	02:00:00		0.015	0.005	0.176	0.023	03:00:00		0.03	0.005	0.02	0.018	08:00:00		0.022	0.005	0.241	0.024	14:00:00		3.03	0.257	3.3	0.814	11:00:00		0.155	0.395	0.764	0.868	04:00:00		0.117	0.022	0.308	0.073
04:00:00		0.026	0.005	0.02	0.018	03:00:00		0.015	0.005	0.174	0.023	04:00:00		0.03	0.005	0.02	0.018	09:00:00		0.022	0.005	0.233	0.023	15:00:00		2.831	0.229	3.135	0.758	12:00:00		0.21	0.35	0.746	0.807	05:00:00		0.113	0.02	0.298	0.069
05:00:00		0.026	0.331	0.61	0.625	04:00:00		0.015	0.005	0.171	0.022	05:00:00		0.03	0.17	0.409	0.291	10:00:00		0.021	0.005	0.225	0.023	16:00:00		2.645	0.204	2.981	0.706	13:00:00		0.268	0.311	0.716	0.749	06:00:00		0.108	0.019	0.288	0.066
06:00:00		0.026	0.608	1.481	1.175	05:00:00		0.015	0.005	0.168	0.022	06:00:00		0.03	0.311	1.008	0.539	11:00:00		0.021	0.005	0.217	0.023	17:00:00		2.472	0.182	2.837	0.657	14:00:00		0.385	0.276	0.687	0.696	07:00:00		0.103	0.017	0.278	0.063
07:00:00		0.026	0.541	1.998	1.094	06:00:00		0.015	0.005	0.163	0.022	07:00:00		0.03	0.278	1.331	0.504	12:00:00		0.021	0.005	0.21	0.023	18:00:00		2.311	0.162	2.702	0.612	15:00:00		0.517	0.244	0.66	0.647	08:00:00		0.099	0.016	0.269	0.06
08:00:00		0.026	0.481	2.323	1.018	07:00:00		0.015	0.005	0.158	0.022	08:00:00		0.03	0.249	1.438	0.471	13:00:00		0.021	0.005	0.203	0.022	19:00:00		2.16	0.145	2.575	0.57	16:00:00		0.587	0.217	0.635	0.602	09:00:00		0.095	0.015	0.26	0.058
09:00:00		0.137	0.428	2.415	0.948	08:00:00		0.015	0.005	0.153	0.021	09:00:00		0.118	0.223	1.408	0.44	14:00:00		0.021	0.005	0.197	0.022	20:00:00		2.02	0.129	2.456	0.532	17:00:00		0.59	0.193	0.611	0.56	10:00:00		0.091	0.014	0.252	0.055
10:00:00		0.489	0.381	2.337	0.882	09:00:00		0.015	0.005	0.149	0.021	10:00:00		0.403	0.199	1.335	0.412	15:00:00		0.021	0.005	0.19	0.022	21:00:00		1.889	0.115	2.344	0.496	18:00:00		0.562	0.171	0.589	0.521	11:00:00		0.087	0.013	0.243	0.053
11:00:00		1.015	0.339	2.21	0.822	10:00:00		0.015	0.005	0.144	0.021	11:00:00		0.77	0.178	1.26	0.385	16:00:00		0.021	0.005	0.184	0.022	22:00:00		1.767	0.103	2.239	0.462	19:00:00		0.536	0.152	0.568	0.484	12:00:00		0.084	0.012	0.236	0.051
12:00:00		1.544	0.302	2.086	0.765	11:00:00		0.015	0.005	0.14	0.021	12:00:00		1.035	0.16	1.19	0.36	17:00:00		0.021	0.005	0.178	0.021	23:00:00		1.653	0.092	2.14	0.431	20:00:00		0.511	0.135	0.548	0.451	13:00:00		0.08	0.011	0.228	0.049
13:00:00		1.849	0.268	1.971	0.712	12:00:00		0.015	0.005	0.136	0.021	13:00:00		1.131	0.143	1.126	0.337	18:00:00		0.021	0.005	0.173	0.021	00:00:00		1.547	0.082	2.046	0.402	21:00:00		0.488	0.12	0.53	0.42	14:00:00		0.077	0.011	0.221	0.047
14:00:00		1.854	0.239	1.865	0.664	13:00:00		0.015	0.005	0.132	0.021	14:00:00		1.094	0.128	1.066	0.315	19:00:00		0.021	0.005	0.167	0.021	01:00:00		1.448	0.074	1.957	0.375	22:00:00		0.466	0.107	0.512	0.391	15:00:00		0.074	0.01	0.214	0.045
15:00:00		1.739	0.213	1.767	0.618	14:00:00		0.015	0.005	0.128	0.021	15:00:00		1.024	0.115	1.01	0.295	20:00:00		0.021	0.005	0.162	0.021	02:00:00		1.355	0.066	1.874	0.35	23:00:00		0.445	0.096	0.496	0.364	16:00:00		0.071	0.01	0.208	0.043
16:00:00		1.624	0.19	1.676	0.576	15:00:00		0.015	0.005	0.124	0.02	16:00:00		0.959	0.103	0.959	0.276	21:00:00		0.021	0.005	0.157	0.021	03:00:00		1.269	0.059	1.794	0.326	00:00:00		0.425	0.085	0.48	0.339	17:00:00		0.069	0.009	0.202	0.042
17:00:00		1.517	0.169	1.591	0.537	16:00:00		0.015	0.005	0.121	0.02	17:00:00		0.898	0.092	0.911	0.259	22:00:00		0.021	0.005	0.153	0.021	04:00:00		1.189	0.053	1.719	0.305	01:00:00		0.407	0.076	0.465	0.316	18:00:00		0.066	0.009	0.196	0.04
18:00:00		1.417	0.151	1.512	0.5	17:00:00		0.015	0.005	0.117	0.02	18:00:00		0.842	0.083	0.867	0.242	23:00:00		0.021	0.005	0.148	0.02	05:00:00		1.114	0.048	1.648	0.284	02:00:00		0.389	0.068	0.451	0.295	19:00:00		0.064	0.008	0.19	0.039
19:00:00		1.324	0.135	1.438	0.466	18:00:00		0.015	0.005	0.114	0.02	19:00:00		0.789	0.075	0.825	0.227	00:00:00		0.022		0.144	0.02	06:00:00		1.044	0.043	1.581	0.266	03:00:00		0.373	0.061	0.438	0.275	20:00:00		0.062	0.008	0.185	0.038
20:00:00		1.237	0.12	1.369	0.435	19:00:00		0.015	0.005	0.111	0.02	20:00:00		0.739	0.067	0.786	0.213	01:00:00		0.024		0.14	0.02	07:00:00		0.978	0.039	1.516	0.248	04:00:00		0.358	0.055	0.426	0.257	21:00:00		0.06	0.008	0.179	0.037
21:00:00		1.156	0.107	1.304	0.406	20:00:00		0.015	0.005	0.108	0.02	21:00:00		0.693	0.06	0.75	0.2	02:00:00		0.027		0.136	0.02	08:00:00		0.917	0.035	1.455	0.232	05:00:00		0.343	0.049	0.414	0.24	22:00:00		0.058	0.008	0.174	0.036
22:00:00		1.081	0.096	1.243	0.378	21:00:00		0.015	0.005	0.105	0.02	22:00:00		0.65	0.054	0.716	0.187	03:00:00		0.026		0.132	0.02	09:00:00		0.86	0.032	1.397	0.217	06:00:00		0.329	0.044	0.403	0.224	23:00:00		0.056	0.007	0.17	0.034
23:00:00		1.01	0.086	1.186	0.353	22:00:00		0.015	0.005	0.102	0.02	23:00:00		0.609	0.049	0.684	0.176	04:00:00		0.026		0.128	0.02	10:00:00		0.807	0.029	1.342	0.203	07:00:00		0.317	0.04	0.392	0.209	00:00:00		0.054	0.007	0.165	0.034
00:00:00		0.945	0.077	1.133	0.329	23:00:00		0.015		0.099	0.02	00:00:00		0.572	0.044	0.654	0.165	05:00:00		0.026		0.124	0.02	11:00:00		0.757	0.026	1.289	0.19	08:00:00		0.304	0.036	0.382	0.196	01:00:00		0.053		0.16	0.033
01:00:00		0.884	0.069	1.082	0.308	00:00:00		0.015		0.097	0.02	01:00:00		0.536	0.04	0.625	0.155	06:00:00		0.025		0.121	0.02	12:00:00		0.711		1.239	0.178	09:00:00		0.293	0.033	0.372	0.183	02:00:00		0.051		0.156	0.032
02:00:00		0.826	0.062	1.035	0.287	01:00:00		0.015		0.094	0.019	02:00:00		0.503	0.036	0.599	0.146	07:00:00		0.025		0.118	0.02	13:00:00		0.668		1.191	0.167	10:00:00		0.282	0.03	0.363	0.172	03:00:00		0.05		0.152	0.031
03:00:00		0.773	0.055	0.99	0.268	02:00:00		0.015		0.092	0.019	03:00:00		0.473	0.033	0.573	0.137	08:00:00		0.025		0.114	0.02	14:00:00		0.627		1.146	0.156	11:00:00		0.272	0.027	0.354	0.161	04:00:00		0.049		0.148	0.03
04:00:00		0.724	0.05	0.947	0.251	03:00:00		0.015		0.089	0.019	04:00:00		0.444	0.03	0.55	0.129	09:00:00		0.025		0.111	0.019	15:00:00		0.59		1.102	0.147	12:00:00		0.262		0.346	0.151	05:00:00		0.048		0.145	0.03
05:00:00		0.677	0.045	0.907	0.234	04:00:00		0.015		0.087	0.019	05:00:00		0.417	0.027	0.527	0.122	10:00:00		0.024		0.108	0.019	16:00:00		0.554		1.06	0.138	13:00:00		0.253		0.338	0.142	06:00:00		0.047		0.141	0.029
06:00:00		0.634	0.04	0.869	0.219	05:00:00		0.015		0.085	0.019	06:00:00		0.392	0.025	0.506	0.115	11:00:00				0.105	0.019	17:00:00		0.521		1.021	0.129	14:00:00		0.245		0.33	0.133	07:00:00		0.046		0.138	0.028
07:00:00		0.594	0.036	0.833	0.205	06:00:00		0.015		0.083	0.019	07:00:00		0.369	0.023	0.485	0.108	12:00:00				0.103		18:00:00		0.491		0.983	0.121	15:00:00		0.236		0.322	0.125	08:00:00		0.045		0.134	0.028
08:00:00		0.556	0.033	0.799	0.192	07:00:00		0.015		0.081	0.019	08:00:00		0.347	0.021	0.466	0.102	13:00:00				0.1		19:00:00		0.462		0.946	0.114	16:00:00		0.229		0.315	0.118	09:00:00		0.044		0.131	0.027
09:00:00		0.521	0.03	0.767	0.18	08:00:00		0.015		0.079	0.019	09:00:00		0.326	0.019	0.448	0.096	14:00:00				0.097		20:00:00		0.435		0.911	0.107	17:00:00		0.222		0.308	0.111	10:00:00		0.043		0.128	0.027

Time 19/06/80 @ 13:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 8/18/84 @ 12:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 22/06/87 @ 13:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 15/07/88 @ 18:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 26/05/89 @ 0:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 18/10/94 @ 21:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)				Time 20/09/02 @ 14:00	Hourly Rainfall Amount (mm)	Peak Discharge (m3/s)			
		Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller			Gully Creek	MD Drain	Zurich Drain	Datar Miller
10:00:00		0.488	0.027	0.736	0.168	09:00:00		0.015		0.077	0.019	10:00:00		0.307	0.017	0.431	0.091	15:00:00				0.095		21:00:00		0.41		0.878	0.101	18:00:00		0.215		0.301	0.105	11:00:00		0.042		0.125	0.026
11:00:00		0.458	0.024	0.706	0.158	10:00:00		0.015		0.075	0.019	11:00:00		0.289	0.016	0.414	0.086	16:00:00				0.093		22:00:00		0.387		0.846	0.095	19:00:00		0.208		0.295	0.099	12:00:00		0.042			0.026
12:00:00		0.429		0.679	0.148	11:00:00		0.015		0.073	0.019	12:00:00		0.273		0.399	0.081	17:00:00				0.09		23:00:00		0.365		0.816	0.09	20:00:00		0.202		0.289	0.093	13:00:00		0.041			
13:00:00		0.403		0.652	0.139	12:00:00				0.072	0.019	13:00:00		0.257		0.384	0.077	18:00:00				0.088		00:00:00				0.787	0.085	21:00:00		0.197		0.283	0.088	14:00:00		0.04			
14:00:00		0.378		0.627	0.13	13:00:00				0.07	0.019	14:00:00		0.242		0.369	0.073	19:00:00				0.086		01:00:00				0.758	0.08	22:00:00		0.191		0.277	0.083	15:00:00		0.04			
15:00:00		0.355		0.603	0.122	14:00:00				0.069	0.019	15:00:00		0.229		0.356	0.069	20:00:00				0.084		02:00:00				0.732	0.076	23:00:00		0.186		0.272	0.079	16:00:00		0.039			
16:00:00		0.333		0.58	0.115	15:00:00				0.067	0.019	16:00:00		0.216		0.343	0.066	21:00:00				0.082		03:00:00				0.706	0.072	00:00:00		0.181			0.075	17:00:00		0.039			
17:00:00		0.313		0.558	0.108	16:00:00				0.066	0.019	17:00:00		0.204		0.331	0.063	22:00:00				0.08		04:00:00				0.681	0.068	01:00:00		0.177			0.071	18:00:00		0.038			
18:00:00		0.294		0.537	0.102	17:00:00				0.064	0.019	18:00:00		0.193		0.319	0.06	23:00:00				0.078		05:00:00				0.657	0.064	02:00:00		0.173			0.068	19:00:00		0.038			
19:00:00		0.276		0.517	0.096	18:00:00				0.063	0.019	19:00:00		0.182		0.307	0.057	00:00:00						06:00:00				0.634	0.061	03:00:00		0.169			0.065	20:00:00		0.037			
20:00:00		0.26		0.498	0.091	19:00:00				0.062	0.019	20:00:00		0.172		0.297	0.054	01:00:00						07:00:00				0.612	0.058	04:00:00		0.165			0.062	21:00:00		0.037			
21:00:00		0.245		0.479	0.085	20:00:00				0.06	0.019	21:00:00		0.163		0.286	0.052	02:00:00						08:00:00				0.591	0.055	05:00:00		0.161			0.059	22:00:00		0.036			
22:00:00		0.23		0.462	0.081	21:00:00				0.059	0.019	22:00:00		0.155		0.276	0.05	03:00:00						09:00:00				0.571	0.053	06:00:00		0.158			0.056	23:00:00		0.036			
22:59:59		0.217		0.445	0.076	22:00:00				0.058	0.019	23:00:00		0.147		0.267	0.047	04:00:00						10:00:00				0.552	0.05	06:59:59		0.155			0.054	00:00:00		0.036			

APPENDIX E

Ten Year Rainfall GAWSER Output

Table AE.1: Daily Average Streamflow for 10 years for Eighteen Mile River, at the outlet.

Day	Eighteen Mile River @ Outlet Average Daily Streamflow									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.603	0.41	0.01	0.104	0.194	0.41	2.833	9.688	4.102	0.871
1/2	0.679	0.361	0.009	0.721	0.19	0.358	2.032	9.98	5.501	1.082
1/3	3.71	0.515	0.009	3.313	0.188	0.322	1.402	13.649	8.595	3.2
1/4	8.442	3.264	0.009	4.112	0.186	0.297	0.975	10.939	7.396	5.827
1/5	13.995	10.711	0.009	5.684	0.185	0.28	0.688	7.283	5.606	7.738
1/6	10.77	15.27	0.009	3.801	0.183	0.267	0.492	4.894	3.741	5.76
1/7	7.119	11.644	0.009	2.503	0.182	0.258	0.357	3.351	2.524	3.799
1/8	4.776	9.1	0.009	1.678	0.181	0.251	0.264	2.339	1.735	2.536
1/9	3.312	6.787	0.009	1.144	0.18	0.247	0.309	1.666	1.216	1.722
1/10	2.442	5.677	0.009	1.459	0.179	0.453	1.059	1.212	0.87	1.197
1/11	1.813	4.057	0.009	3.124	0.179	1.988	0.803	0.904	0.636	1.204
1/12	1.373	2.894	0.009	2.16	0.178	2.594	0.557	0.692	1.391	3.662
1/13	1.063	2.103	0.009	1.444	0.177	1.906	0.394	0.546	5.343	4.43
1/14	0.841	1.558	0.01	0.979	0.176	1.37	0.284	0.444	10.74	6.783
1/15	0.683	1.178	0.01	0.677	0.185	1.011	0.21	0.372	7.815	4.84
1/16	0.569	0.911	0.01	0.479	0.436	0.77	0.158	0.322	5.434	3.335
1/17	0.485	0.723	0.01	0.346	0.934	0.606	0.123	0.286	3.814	2.607
1/18	0.425	0.588	0.01	0.056	0.742	0.493	0.098	0.26	2.715	5.547
1/19	0.38	0.491	0.01	0.056	0.558	0.415	0.08	0.242	1.959	4.418
1/20	0.347	0.421	0.01	0.056	0.436	0.359	0.067	0.229	1.433	5.205
1/21	0.322	0.37	0.01	0.056	0.354	0.32	0.059	0.196	1.063	5.304
1/22	0.454	0.332	0.439	0.056	0.298	0.291	0.052	0.195	0.801	3.823
1/23	1.643	0.32	3.804	0.056	0.259	0.315	0.048	0.194	0.614	2.69
1/24	1.292	0.597	7.15	0.056	0.231	1.078	0.044	0.193	0.479	2.136
1/25	0.958	1.53	6.471	0.056	0.212	1.347	0.042	0.192	0.381	1.543
1/26	0.736	1.719	4.586	0.056	0.198	2.181	0.04	0.191	0.31	1.111
1/27	0.586	1.241	3.222	0.056	0.187	4.999	0.039	0.19	0.258	0.811
1/28	0.484	1.072	2.596	0.056	0.18	8.258	0.038	0.189	0.22	0.795
1/29	0.413	1.522	2.148	0.056	0.174	8.706	0.037	0.188	0.191	5.036
1/30	0.363	1.66	1.672	0.056	0.384	6.025	0.037	0.186	0.17	10.986
1/31	0.327	1.462	1.207	0.056	1.569	4.206	0.037	0.185	0.155	9.709
2/1	0.302	1.281	0.874	0.056	2.334	3.096	0.036	0.184	0.143	6.657
2/2	0.283	0.99	1.117	0.056	1.82	2.496	0.112	0.183	0.134	4.659
2/3	0.373	0.77	2.589	0.056	1.312	1.892	1.55	0.182	0.127	5.153
2/4	1.519	0.614	2.522	0.056	0.955	1.435	5.964	0.181	0.122	6.267
2/5	3.35	0.504	1.858	0.056	0.726	1.106	4.476	0.18	0.118	4.529
2/6	3.738	0.425	1.347	0.056	1.048	0.868	3.135	0.178	0.115	3.266
2/7	2.775	0.367	1.071	0.056	2.235	0.726	2.222	0.177	0.3	2.382
2/8	2.029	0.325	0.787	0.056	1.759	1.288	1.594	0.176	1.153	1.755
2/9	1.514	0.302	0.661	0.056	9.811	2.365	1.156	0.175	1.162	1.307
2/10	1.153	0.287	0.847	0.055	22.706	3.157	0.847	0.174	0.886	0.983
2/11	0.898	0.378	1.763	0.055	16.545	3.717	0.627	0.172	0.665	0.748
2/12	0.716	1.832	3.755	0.055	11.735	2.758	0.469	0.171	0.51	0.575
2/13	0.584	1.564	4.783	0.055	8.423	2.369	0.355	0.17	0.4	0.447
2/14	0.488	1.156	3.415	0.055	6.128	1.775	0.272	0.168	0.321	0.353
2/15	0.417	0.874	2.388	0.055	4.495	1.336	0.211	0.167	0.482	0.284
2/16	0.365	0.79	1.929	0.054	3.328	1.46	0.166	0.166	1.953	0.824
2/17	0.326	1.128	3.247	0.054	2.49	2.106	0.133	0.165	1.622	6.594
2/18	0.324	3.194	2.723	0.054	1.881	1.628	0.109	0.165	1.184	5.398
2/19	1.124	3.172	1.998	0.054	1.437	1.509	0.091	0.165	0.88	3.815
2/20	3.896	2.332	1.462	0.055	1.11	8.724	0.088	0.249	0.666	2.731
2/21	11.004	1.734	1.078	0.055	0.868	14.125	0.419	1.385	0.515	1.979
2/22	14.174	1.36	0.801	0.079	0.689	11.189	1.742	1.24	0.406	1.452
2/23	10.076	1.119	0.6	1.829	0.555	7.943	1.34	1.375	0.327	1.077
2/24	7.182	0.946	0.453	4.24	0.454	5.78	0.968	1.102	0.27	0.809
2/25	5.188	0.838	0.383	7.576	2.798	8.649	0.709	0.843	0.228	0.616
2/26	4.274	0.711	0.405	7.551	7.376	17.871	0.526	0.705	0.197	0.475
2/27	6.79	0.753	0.307	6.746	5.526	13.45	0.396	1.232	0.174	0.371
2/28	7.033	1.14	1.19	4.925	3.949	9.604	0.302	2.812	0.156	0.295
2/29				3.571				4.232		
3/1	5.496	0.885	1.987	3.648	2.85E+00	6.941	0.234	4.788	0.144	0.238
3/2	6.041	1.027	1.528	5.098	2.102	5.478	0.184	7.063	0.134	0.196
3/3	4.586	1.592	1.968	3.732	1.602	8.631	0.148	8.049	0.127	0.165
3/4	3.355	1.523	1.543	2.717	1.757	6.743	0.121	7.271	0.121	0.142
3/5	2.486	1.148	1.121	2	1.759	4.892	0.101	9.961	0.117	0.125
3/6	1.87	0.882	0.822	1.467	1.321	3.593	0.086	12.429	0.538	0.111
3/7	1.429	0.695	0.609	1.234	0.989	2.8	0.074	9.308	7.171	0.137
3/8	1.111	0.981	0.456	1.778	0.756	4.848	0.066	7.522	16.752	1.248
3/9	0.879	5.437	0.344	2.73	0.589	10.691	0.06	5.888	12.372	10.66
3/10	1.04	9.68	0.262	4.026	0.47	15.569	0.055	4.714	8.664	19.312
3/11	3.282	6.916	0.202	3.256	0.384	11.531	0.052	3.732	6.144	16.402
3/12	2.552	4.979	0.241	2.351	0.321	8.265	0.049	3.846	4.409	14.403
3/13	1.867	3.635	0.726	1.682	0.581	6.104	0.047	2.918	3.2	15.604
3/14	1.394	2.691	0.537	2.131	2.348	5.169	0.046	2.267	2.348	15.473
3/15	2.707	2.02	0.388	6.881	3.597	4.728	0.548	3.026	1.742	11.145
3/16	3.11	1.54	0.477	6.065	5.152	4.434	4.61	2.271	1.307	8.279
3/17	2.265	1.173	1.003	4.411	3.786	3.338	8.584	1.652	0.993	6.013
3/18	1.765	1.103	1.964	3.117	2.706	2.62	10.06	1.225	0.764	4.388
3/19	1.335	7.747	1.405	2.231	2.069	2.153	8.822	1.036	0.601	3.23
3/20	1.024	11.088	0.984	1.616	2.644	2.922	8.059	2.639	0.534	2.398
3/21	1.04	11.221	0.783	1.214	2.549	5.395	7.597	5.47	0.544	1.795
3/22	1.843	7.929	2.247	1.089	2.774	6.789	5.405	3.935	1.379	1.356
3/23	1.387	5.562	2.442	1.26	2.8	5.012	3.79	2.778	2.95	1.029
3/24	1.033	3.976	1.716	1.586	3.635	3.632	2.688	2.363	2.241	0.802
3/25	3.75	2.953	1.207	1.761	2.67	3.135	2.237	6.005	1.712	0.722
3/26	9.764	2.292	0.86	1.863	1.923	2.288	2.316	9.954	1.265	0.568
3/27	7.924	2.884	0.62	3.796	1.407	1.677	1.69	10.1	0.942	0.591
3/28	9.566	4.438	0.453	7.363	1.049	1.253	1.79	7.035	0.739	1
3/29	16.351	5.521	0.336	11.918	0.837	1.183	6.226	5.089	2.428	2.399
3/30	18.146	3.98	0.253	8.676	0.835	3.009	7.054	8.012	5.874	3.143
3/31	14.179	2.825	0.194	6.186	0.863	4.699	5.139	8.676	7.453	2.326
4/1	9.977	2.145	0.224	4.441	1.02	4.17	3.631	6.559	6.062	3.49
4/2	7.485	2.428	0.942	3.217	1.961	3.391	2.735	5.069	5.107	2.85
4/3	8.131	2.713	1.923	2.355	1.608	2.857	1.947	4.134	6.739	2.357
4/4	5.995	1.95	2.564	1.776	2.03	2.504	1.406	3.123	4.943	3.101

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/5	4.349	1.422	4.836	1.573	3.078	2.146	1.049	2.315	4.116	2.923
4/6	4.511	1.064	4.537	1.198	5.882	1.781	0.776	1.735	4.197	2.547
4/7	7.124	0.817	3.881	0.924	9.65	1.311	0.581	1.321	4.388	4.116
4/8	5.171	0.646	5.234	0.844	10.562	1.14	0.441	1.022	3.647	5.852
4/9	3.692	0.526	4.885	0.651	12.059	6.195	0.378	0.805	3.231	4.118
4/10	2.682	0.214	3.824	0.501	8.78	5.472	0.401	0.646	3.336	2.926
4/11	1.984	0.215	4.313	0.394	6.458	3.819	0.323	0.529	3.56	2.177
4/12	1.56	0.215	11.079	0.325	6.957	3.43	0.26	0.442	3.338	3.778
4/13	1.347	0.216	8.417	0.317	6.48	6.889	0.215	0.378	3.012	9.807
4/14	1.035	0.216	6.026	0.265	5.225	6.444	0.182	0.33	3.04	9.288
4/15	0.813	0.216	4.488	0.221	4.127	6.237	0.158	0.298	2.965	7.719
4/16	0.671	0.217	3.477	0.189	4.588	7.013	0.14	0.424	3.281	6.022
4/17	0.563	0.218	5.629	0.166	7.628	7.913	0.128	0.828	3.877	5.084
4/18	0.484	0.219	6.434	0.15	5.64	8.351	0.12	5.058	4.346	4.602
4/19	0.424	0.221	5.344	0.137	4.112	12.026	0.176	9.152	5.301	4.617
4/20	0.38	0.223	4.305	0.129	3.021	12.041	0.872	7.728	7.166	4.778
4/21	0.348	0.225	3.281	0.128	2.473	9.173	2.888	6.839	7.429	4.994
4/22	0.323	0.227	3.102	0.123	4.77	7.241	3.088	8.373	6.032	5.634
4/23	0.323	0.229	7.001	0.119	5.54	5.316	2.331	6.97	5.351	11.393
4/24	0.478	0.23	5.291	0.117	5.734	3.942	1.704	5.468	6.983	10.769
4/25	0.702	0.231	3.821	0.115	4.462	3.18	1.265	4.835	8.229	9.432
4/26	0.841	0.231	2.791	0.113	3.466	2.578	0.956	5.903	9.202	7.717
4/27	1.21	0.232	2.061	0.112	5.164	1.969	0.736	5.046	10.774	5.664
4/28	2.762	0.232	1.54	0.111	4.706	3.345	0.59	3.901	9.419	4.263
4/29	3.29	0.231	0.092	0.11	3.922	4.569	0.676	3.104	8.31	3.279
4/30	3.922	0.231	0.094	0.11	3.888	3.555	0.788	4.415	6.063	2.956
5/1	4.994	0.23	0.095	0.109	4.748	2.87	7.214	6.727	4.405	3.225
5/2	5.114	0.23	0.095	0.108	5.779	4.029	12.358	12.072	3.24	3.815
5/3	9.134	0.229	0.096	0.108	6.805	4.397	9.35	12.858	2.418	4.484
5/4	13.961	0.23	0.096	0.107	7.288	3.285	7.103	8.963	1.834	4.806
5/5	10.526	0.23	0.096	0.107	7.425	2.9	7.102	7.313	1.411	4.383
5/6	10.244	0.23	0.096	0.106	6.544	4.33	10.651	5.923	1.104	3.669
5/7	8.286	0.229	0.096	0.106	5.902	7.066	8.383	6.087	0.88	2.856
5/8	6.375	0.229	0.096	0.105	7.671	6.186	6.491	6.465	0.716	2.564
5/9	8.405	0.228	0.096	0.105	9.545	8.469	5.991	10.286	0.595	3.179
5/10	8.931	0.227	0.096	0.105	8.888	11.287	5.805	9.695	0.506	3.962
5/11	6.841	0.226	0.096	0.105	9.572	8.619	12.564	7.039	0.439	4.145
5/12	5.933	0.225	0.096	0.28	11.469	9.765	17.662	4.998	0.388	3.571
5/13	8.027	0.224	0.096	3.191	8.722	13.216	14.023	3.609	0.351	2.414
5/14	6.491	0.223	0.095	2.787	6.466	11.335	13.296	2.651	0.323	1.676
5/15	7.189	0.222	0.095	1.996	5.479	8.41	9.371	1.982	0.231	1.197
5/16	13.773	0.22	0.095	1.455	5.332	9.895	6.536	1.511	0.233	0.882
5/17	11.905	0.218	0.095	1.052	4.375	17.614	4.628	1.175	0.235	0.671
5/18	9.13	0.216	0.095	11.213	2.991	12.571	3.326	0.935	0.236	0.529
5/19	9.342	0.214	0.095	13.645	2.096	8.962	2.427	0.762	0.237	0.432
5/20	7.699	0.212	0.095	8.991	1.512	6.231	1.801	0.63	0.237	0.366
5/21	6.171	0.21	0.095	6.028	1.126	4.395	1.36	0.535	0.237	0.321
5/22	4.997	0.208	0.094	4.109	0.88	3.195	1.048	0.605	0.237	0.29
5/23	4.15	0.205	0.094	2.846	0.761	3.21	0.825	2.928	0.237	0.268

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/24	4.244	0.202	0.094	2.003	0.618	4.515	0.774	14.175	0.237	0.254
5/25	5.876	0.2	0.127	1.438	0.521	4.145	0.664	12.849	0.236	0.244
5/26	5.727	0.197	0.231	1.049	0.454	2.987	0.232	10.294	0.235	0.236
5/27	5.269	0.194	0.191	0.781	0.409	2.164	0.235	7.06	0.234	0.231
5/28	5.738	0.191	0.164	0.595	0.378	1.608	0.238	4.912	0.232	0.228
5/29	6.362	0.189	0.146	0.466	0.356	1.229	0.241	3.484	0.231	0.225
5/30	6.905	0.186	0.134	0.375	0.342	0.966	0.244	2.521	0.229	0.223
5/31	7.26	0.184	0.125	0.311	0.332	0.315	0.246	1.863	0.227	0.221
6/1	6.992	0.182	0.119	0.266	0.325	0.317	0.249	1.409	0.225	0.22
6/2	6.338	0.179	0.115	0.233	0.321	0.319	0.251	1.093	0.222	0.219
6/3	4.842	0.177	0.112	0.211	0.318	0.321	0.252	0.871	0.22	0.216
6/4	3.609	0.174	0.11	0.194	0.316	0.324	0.252	0.714	0.218	0.217
6/5	2.737	0.171	0.109	0.182	0.308	0.326	0.253	0.603	0.214	0.217
6/6	2.112	0.167	0.107	0.173	0.308	0.328	0.254	0.523	0.211	0.218
6/7	1.661	0.164	0.105	0.166	0.308	0.329	0.256	0.466	0.207	0.217
6/8	1.333	0.16	0.104	0.16	0.306	0.331	0.257	0.424	0.204	0.216
6/9	1.092	0.156	0.103	0.156	0.305	0.332	0.258	0.393	0.2	0.215
6/10	0.914	0.153	0.101	0.153	0.303	0.332	0.26	0.37	0.196	0.213
6/11	0.783	0.149	0.1	0.152	0.301	0.332	0.262	0.353	0.193	0.211
6/12	0.684	0.144	0.099	0.15	0.301	0.331	0.263	0.34	0.189	0.209
6/13	0.61	0.141	0.098	0.362	0.299	0.332	0.265	0.305	0.186	0.206
6/14	0.553	0.138	0.097	1.032	0.297	0.333	0.266	0.303	0.182	0.203
6/15	0.51	0.134	0.096	1.136	0.295	0.332	0.267	0.303	0.179	0.2
6/16	0.475	0.131	0.095	0.866	0.293	0.332	0.267	0.302	0.176	0.197
6/17	0.448	0.127	0.094	0.675	0.29	0.332	0.266	0.301	0.173	0.194
6/18	0.426	0.123	0.092	0.539	0.288	0.334	0.264	0.299	0.169	0.19
6/19	0.408	0.118	0.091	0.441	0.286	0.334	0.262	0.297	0.166	0.186
6/20	0.393	0.112	0.089	0.37	0.283	0.333	0.261	0.294	0.162	0.182
6/21	0.381	0.106	0.087	0.318	0.28	0.33	0.26	0.291	0.158	0.179
6/22	0.372	0.099	0.086	0.28	0.278	0.327	0.258	0.288	0.155	0.175
6/23	0.366	0.092	0.084	0.251	0.278	0.324	0.256	0.286	0.151	0.172
6/24	0.36	0.085	0.081	0.229	0.279	0.322	0.253	0.285	0.146	0.169
6/25	0.354	0.077	0.079	4.759	0.279	0.318	0.25	0.284	0.14	0.165
6/26	0.34	0.071	0.076	6.351	0.279	0.314	0.246	0.284	0.133	0.161
6/27	0.336	0.065	0.074	4.682	0.277	0.311	0.243	0.283	0.125	0.156
6/28	0.332	0.061	0.073	3.492	0.275	0.308	0.239	0.281	0.118	0.153
6/29	0.327	0.058	0.071	2.635	0.271	0.305	0.235	0.279	0.11	0.149
6/30	0.322	0.056	0.069	2.012	0.268	0.301	0.232	0.276	0.102	0.146
7/1	0.317	0.055	0.068	1.556	0.264	0.296	0.228	0.273	0.095	0.142
7/2	0.311	0.054	0.066	1.218	0.262	0.292	0.223	0.269	0.089	0.138
7/3	0.306	0.053	0.064	0.967	0.259	0.287	0.219	0.265	0.085	0.134
7/4	0.301	0.052	0.063	0.167	0.256	0.282	0.214	0.261	0.08	0.13
7/5	0.296	0.051	0.061	0.168	0.253	0.276	0.21	0.257	0.076	0.125
7/6	0.292	0.05	0.059	0.168	0.249	0.271	0.204	0.254	0.074	0.12
7/7	0.287	0.05	0.057	0.167	0.245	0.266	0.199	0.25	0.073	0.115
7/8	0.282	0.049	0.055	0.167	0.241	0.262	0.194	0.247	0.071	0.111
7/9	0.278	0.048	0.053	0.166	0.237	0.257	0.19	0.245	0.07	0.106
7/10	0.274	0.047	0.051	0.166	0.233	0.252	0.186	0.241	0.069	0.101
7/11	0.269	0.047	0.05	0.167	0.229	0.247	0.183	0.237	0.068	0.098

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/12	0.264	0.046	0.048	0.167	0.224	0.242	0.18	0.233	0.068	0.096
7/13	0.258	0.045	0.046	0.167	0.219	0.236	0.178	0.229	0.067	0.093
7/14	0.253	0.045	0.045	0.166	0.214	0.229	0.176	0.227	0.066	0.091
7/15	0.248	0.044	0.044	0.166	0.208	0.222	0.173	0.227	0.065	0.089
7/16	0.244	0.043	0.044	0.166	0.202	0.214	0.17	0.229	0.098	0.086
7/17	0.24	0.042	0.043	0.167	0.196	0.206	0.167	0.233	0.235	0.084
7/18	0.237	0.042	0.042	0.168	0.19	0.197	0.164	0.236	0.208	0.082
7/19	0.232	0.041	0.042	0.168	0.183	0.19	0.16	0.238	0.176	0.081
7/20	0.228	0.041	0.041	0.169	0.176	0.183	0.157	0.239	0.15	0.079
7/21	0.223	0.04	0.04	0.168	0.168	0.176	0.153	0.24	0.131	0.078
7/22	0.219	0.039	0.04	0.168	0.183	0.168	0.15	0.24	0.116	0.078
7/23	0.215	0.039	0.039	0.167	0.159	0.161	0.146	0.239	0.104	0.077
7/24	0.21	0.038	0.038	0.166	0.158	0.155	0.143	0.237	0.094	0.076
7/25	0.205	0.037	0.038	0.165	0.157	0.15	0.139	0.234	0.087	0.075
7/26	0.201	0.037	0.037	0.164	0.154	0.145	0.136	0.231	0.058	0.075
7/27	0.196	0.036	0.037	0.162	0.151	0.141	0.132	0.227	0.058	0.074
7/28	0.192	0.036	0.036	0.161	0.148	0.138	0.129	0.224	0.057	0.073
7/29	0.188	0.035	0.035	0.16	0.144	0.134	0.125	0.221	0.057	0.072
7/30	0.183	0.035	0.035	0.161	0.14	0.132	0.121	0.218	0.056	0.072
7/31	0.179	0.034	0.034	0.163	0.136	0.129	0.116	0.215	0.056	0.071
8/1	0.173	0.034	0.034	0.165	0.132	0.127	0.112	0.212	0.055	0.07
8/2	0.167	0.033	0.033	0.167	0.128	0.125	0.109	0.209	0.055	0.074
8/3	0.161	0.033	0.033	0.17	0.124	0.122	0.111	0.205	0.054	0.104
8/4	0.156	0.032	0.032	0.172	0.12	0.119	0.141	0.202	0.054	0.151
8/5	0.151	0.032	0.032	0.174	0.116	0.116	0.146	0.2	0.053	0.139
8/6	0.147	0.031	0.031	0.174	0.112	0.113	0.11	0.197	0.053	0.124
8/7	0.142	0.098	0.031	0.174	0.108	0.11	0.112	0.193	0.052	0.112
8/8	0.138	0.03	0.03	0.174	0.103	0.107	0.113	0.19	0.051	0.103
8/9	0.134	0.03	0.03	0.174	0.099	0.104	0.112	0.187	0.051	0.095
8/10	0.129	0.029	0.029	0.174	0.096	0.101	0.111	0.183	0.05	0.089
8/11	0.125	0.029	0.029	0.173	0.093	0.099	0.11	0.18	0.05	0.085
8/12	0.121	0.028	0.028	0.172	0.089	0.097	0.108	0.178	0.049	0.081
8/13	0.118	0.028	0.028	0.171	0.086	0.095	0.108	0.175	0.049	0.077
8/14	0.116	0.028	0.028	0.17	0.083	0.092	0.107	0.172	0.048	0.064
8/15	0.114	0.027	0.027	0.169	0.081	0.09	0.105	0.169	0.047	0.063
8/16	0.113	0.027	0.027	0.168	0.079	0.088	0.104	0.165	0.047	0.063
8/17	0.114	0.026	0.026	0.169	0.078	0.086	0.102	0.162	0.046	0.062
8/18	0.114	0.026	0.026	0.17	0.077	0.084	0.1	0.158	0.046	0.062
8/19	0.114	0.026	0.026	0.172	0.097	0.082	0.098	0.154	0.045	0.061
8/20	0.114	0.025	0.025	0.174	0.185	0.081	0.096	0.15	0.045	0.06
8/21	0.113	0.025	0.025	0.176	0.179	0.079	0.094	0.146	0.044	0.06
8/22	0.115	0.025	0.024	0.177	0.158	0.078	0.092	0.141	0.043	0.059
8/23	0.119	0.024	0.024	0.179	0.142	0.077	0.091	0.137	0.043	0.059
8/24	0.123	0.024	0.024	0.181	0.128	0.076	0.089	0.132	0.042	0.058
8/25	0.127	0.023	0.023	0.183	0.118	0.075	0.087	0.128	0.042	0.058
8/26	0.13	0.023	0.023	0.185	0.109	0.075	0.085	0.123	0.041	0.057
8/27	0.133	0.023	0.023	0.186	0.102	0.074	0.083	0.119	0.041	0.057
8/28	0.134	0.022	0.022	0.187	0.097	0.073	0.082	0.116	0.04	0.056
8/29	0.136	0.022	0.022	0.187	0.092	0.072	0.08	0.113	0.04	0.056
8/30	0.136	0.022	0.022	0.187	0.088	0.072	0.079	0.111	0.039	0.055
8/31	0.137	0.021	0.021	0.187	0.084	0.071	0.077	0.109	0.039	0.054
9/1	0.136	0.021	0.021	0.186	0.081	0.07	0.075	0.107	0.038	0.054
9/2	0.135	0.021	0.021	0.185	0.079	0.07	0.074	0.105	0.038	0.053
9/3	0.133	0.021	0.02	0.186	0.077	0.069	0.072	0.103	0.037	0.053
9/4	0.131	0.02	0.02	0.186	0.075	0.068	0.071	0.101	0.037	0.052
9/5	0.128	0.02	0.02	0.187	0.073	0.067	0.069	0.1	0.036	0.052
9/6	0.126	0.02	0.019	0.187	0.072	0.067	0.067	0.098	0.036	0.051
9/7	0.124	0.019	0.019	0.187	0.071	0.066	0.065	0.096	0.035	0.051
9/8	0.122	0.019	0.019	0.187	0.069	0.065	0.064	0.095	0.035	0.05
9/9	0.121	0.019	0.019	0.187	0.068	0.064	0.063	0.094	0.034	0.049
9/10	0.119	0.019	0.018	0.186	0.067	0.064	0.062	0.093	0.034	0.049
9/11	0.119	0.018	0.018	0.186	0.066	0.063	0.061	0.092	0.033	0.048
9/12	0.12	0.018	0.018	0.185	0.065	0.062	0.06	0.091	0.033	0.048
9/13	0.121	0.018	0.018	0.185	0.065	0.061	0.06	0.09	0.032	0.047
9/14	0.123	0.018	0.017	0.24	0.064	0.061	0.059	0.088	0.032	0.047
9/15	0.123	0.017	0.017	1.461	0.063	0.06	0.058	0.087	0.031	0.046
9/16	0.123	0.017	0.017	2.824	0.063	0.059	0.058	0.085	0.031	0.046
9/17	0.123	0.017	0.017	2.288	0.062	0.058	0.057	0.083	0.03	0.045
9/18	0.123	0.017	0.016	1.805	0.062	0.057	0.056	0.082	0.03	0.045
9/19	0.298	0.016	0.016	1.441	0.061	0.057	0.056	0.08	0.03	0.044
9/20	1.709	0.016	0.016	1.171	0.061	0.056	0.055	0.078	0.029	0.043
9/21	1.745	0.016	0.016	1.955	0.06	0.055	0.055	0.077	0.029	0.043
9/22	1.386	0.016	0.015	2.112	0.098	0.054	0.062	0.075	0.028	0.042
9/23	1.115	0.015	0.015	3.269	0.114	0.054	0.094	0.073	0.028	0.042
9/24	0.909	0.015	0.015	4.25	0.101	0.053	0.095	0.072	0.027	0.042
9/25	0.751	0.015	0.015	3.322	0.205	0.052	0.585	0.07	0.286	0.041
9/26	0.629	0.015	0.014	2.617	4.322	0.052	0.641	0.069	5.168	0.041
9/27	0.534	0.015	0.014	2.082	8.811	0.051	0.619	0.068	7.072	0.04
9/28	0.46	0.014	0.014	1.673	7.05	0.05	0.737	0.067	5.425	0.04
9/29	0.402	0.014	0.014	1.359	5.46	0.049	2.695	0.066	7.563	0.04
9/30	0.355	0.014	0.014	1.116	4.257	0.049	3.258	0.065	7.801	0.039
10/1	0.35	0.014	0.013	0.927	3.342	0.048	3.228	0.064	6.997	0.039
10/2	0.318	0.014	0.013	0.779	2.639	0.047	5.953	0.063	6.129	0.039
10/3	0.296	0.013	0.013	0.663	2.053	0.047	5.861	0.063	4.768	0.038
10/4	0.28	0.013	0.013	0.571	1.591	0.046	7.519	0.062	3.729	0.32
10/5	0.337	0.013	0.013	0.499	1.412	0.045	9.318	0.061	2.932	0.955
10/6	0.317	0.013	0.013	0.441	4.861	0.045	8.356	0.061	0.027	0.728
10/7	0.287	0.013	0.012	0.751	7.403	0.044	6.383	0.06	0.027	0.545
10/8	0.265	0.012	0.012	0.211	6.283	0.044	4.895	0.059	0.028	0.413
10/9	0.251	0.012	0.012	0.211	4.704	0.043	3.784	0.059	0.028	0.317
10/10	0.254	0.012	0.012	0.212	3.548	0.043	2.947	0.058	0.028	0.247
10/11	0.244	0.012	0.012	0.212	2.703	0.042	2.313	0.057	0.028	0.374
10/12	0.235	0.012	0.012	0.212	2.086	0.042	1.829	0.057	0.029	2.615
10/13	0.229	0.012	0.011	0.212	1.644	0.041	1.457	0.056	0.029	3.367
10/14	0.224	0.011	0.011	0.212	2.396	0.041	1.191	0.055	0.029	2.615
10/15	0.22	0.011	0.011	0.211	4.068	0.04	2.051	0.055	0.029	1.962
10/16	0.218	0.011	0.011	0.211	3.133	0.04	2.069	0.054	0.029	1.485
10/17	0.216	0.011	0.011	0.21	8.493	0.039	1.587	0.1	0.029	1.944

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/18	0.215	0.011	0.011	0.21	9.009	0.039	1.2	0.251	0.03	3.712
10/19	0.213	0.011	0.01	0.209	6.701	0.038	0.92	0.229	0.03	2.88
10/20	0.212	0.011	0.01	0.208	5.035	0.038	0.718	0.181	0.03	2.191
10/21	0.211	0.01	0.01	0.207	3.821	0.037	0.572	0.147	0.03	1.662
10/22	0.21	0.01	0.01	0.207	2.928	0.037	0.465	0.123	0.03	1.595
10/23	0.209	0.01	0.041	0.206	2.285	0.036	0.386	0.104	0.03	2.852
10/24	0.209	0.01	0.275	0.205	2.048	0.036	0.328	0.091	0.03	3.05
10/25	0.21	0.01	0.23	0.204	5.59	0.036	0.285	0.081	0.03	3.075
10/26	0.211	0.01	0.165	0.203	5.838	0.035	0.252	0.073	0.03	2.404
10/27	0.212	0.01	0.12	0.202	6.39	0.035	0.229	0.068	0.031	1.748
10/28	0.32	0.009	0.088	0.202	4.889	0.035	0.211	0.063	0.031	3.495
10/29	0.938	0.009	0.066	0.201	3.554	0.034	0.198	0.06	0.031	5.409
10/30	0.926	0.009	0.051	0.2	2.622	0.034	0.189	0.066	0.031	3.999
10/31	0.736	0.009	0.039	0.199	1.963	0.034	0.182	0.071	0.031	2.883
11/1	0.902	0.009	0.031	0.198	1.493	0.033	0.177	0.074	0.031	2.103
11/2	1.702	0.009	0.477	0.197	2.259	0.033	0.522	2.902	0.031	1.551
11/3	3.005	0.009	6.463	0.196	3.196	0.033	2.371	4.364	0.031	1.157
11/4	2.66	0.009	8.065	0.196	2.339	0.032	4.222	3.41	0.031	0.873
11/5	2.878	0.008	8.534	0.195	1.743	0.1	4.565	4.808	0.031	0.667
11/6	2.447	0.008	6.412	0.194	1.324	0.851	3.578	3.593	0.031	0.516
11/7	1.822	0.008	4.58	0.193	1.026	1.34	2.637	2.558	0.031	0.406
11/8	1.383	0.008	3.25	0.192	0.878	0.956	1.972	1.844	0.031	0.329
11/9	1.073	0.008	2.321	0.191	0.96	0.689	1.497	1.365	0.031	0.272
11/10	0.85	0.008	1.672	0.19	0.768	0.884	1.133	1.484	0.031	0.224
11/11	0.69	0.008	1.213	0.189	0.617	2.437	0.932	1.63	0.031	0.562
11/12	0.573	0.008	0.887	0.189	0.51	2.13	0.83	1.184	0.031	0.603
11/13	0.488	0.008	0.652	0.188	0.434	1.534	0.646	0.868	0.031	0.447
11/14	0.425	0.007	0.483	0.187	0.379	1.117	0.516	0.648	0.031	0.34
11/15	0.379	0.007	0.36	0.187	0.339	0.805	0.55	0.492	0.075	0.267
11/16	0.345	0.01	0.271	0.187	0.31	0.595	0.734	0.38	3.212	3.574
11/17	0.317	0.036	0.206	0.187	0.289	0.434	0.733	0.301	5.914	4.535
11/18	0.298	0.031	0.158	0.187	0.274	0.32	0.637	0.243	4.368	3.157
11/19	0.283	0.024	0.122	0.187	0.369	0.248	1.826	0.201	3.252	2.226
11/20	0.273	0.02	0.096	0.187	1.223	0.426	2.488	0.171	3.572	1.577
11/21	0.266	0.042	0.077	0.187	1.202	0.436	1.785	0.149	2.981	1.136
11/22	0.275	0.038	0.064	0.187	0.897	0.307	1.31	0.132	2.755	0.832
11/23	0.491	0.028	0.053	0.187	0.686	0.222	0.985	0.121	2.053	0.621
11/24	0.446	0.022	0.316	0.187	0.546	0.164	0.911	0.112	1.438	0.473

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/25	0.38	0.106	0.34	0.187	0.736	0.125	1.09	0.106	1.019	0.369
11/26	1.342	1.908	1.093	0.187	0.936	0.097	0.822	0.102	0.732	0.294
11/27	5.501	2.016	2.563	0.454	1.187	0.078	0.655	0.122	0.544	0.241
11/28	4.241	1.524	1.88	2.486	1.811	0.065	1.143	0.307	3.019	0.203
11/29	3.081	1.06	1.316	5.723	2.131	0.055	3.674	0.592	8.502	0.176
11/30	2.433	0.868	0.934	6.18	5.112	0.048	2.789	0.425	7.987	0.631
12/1	2.18	3.483	0.656	4.279	5.817	0.043	2.416	2.822	5.452	3.994
12/2	1.604	2.974	0.605	2.943	4.047	0.04	1.829	3.34	3.74	5.878
12/3	1.252	2.073	3.357	2.067	2.871	0.037	1.357	2.6	2.6	4.049
12/4	2.015	1.46	5.099	1.485	2.078	0.035	1.007	1.98	1.831	2.816
12/5	1.644	1.039	4.977	1.092	1.65	0.034	0.77	2.258	1.305	1.991
12/6	1.228	1.014	5.277	0.824	1.421	0.033	0.601	1.599	0.942	1.43
12/7	0.945	7.725	3.843	0.639	1.075	0.032	0.486	2.036	0.688	1.045
12/8	0.891	6.37	2.609	0.511	0.836	0.031	0.406	7.312	0.51	0.777
12/9	1.4	4.202	1.797	0.42	0.67	0.031	0.351	7.75	0.384	0.59
12/10	1.107	2.813	1.475	0.357	0.553	0.031	0.782	5.584	0.294	0.457
12/11	0.846	1.908	1.98	0.311	0.47	0.03	3.699	4.46	0.229	0.363
12/12	0.661	1.309	1.375	0.279	0.412	0.03	3.763	3.109	0.183	0.36
12/13	0.536	0.907	0.957	0.256	0.685	0.03	2.667	2.171	0.15	2.696
12/14	0.453	0.634	0.686	0.239	1.061	0.03	1.863	1.541	0.126	3.925
12/15	0.397	0.446	1.114	0.227	0.781	0.055	1.338	1.112	0.108	3.336
12/16	0.359	0.317	2.748	0.358	0.6	0.347	1.053	0.817	0.096	2.871
12/17	0.358	0.226	3.25	2.726	0.918	0.267	1.561	0.613	0.086	2.15
12/18	0.683	0.163	2.229	2.16	3.264	0.19	1.213	0.47	0.079	1.868
12/19	1.154	0.119	1.516	0.194	4.675	1.109	0.896	0.369	0.074	1.309
12/20	0.896	0.087	1.428	0.195	6.329	3.839	0.685	0.298	0.071	0.92
12/21	0.778	0.064	3.017	0.195	4.349	3.296	0.544	0.248	0.069	0.665
12/22	0.625	0.049	2.132	0.195	2.923	2.21	0.447	0.21	0.067	1.046
12/23	0.509	0.037	1.452	0.195	2.374	1.488	0.41	0.184	0.067	1.769
12/24	0.434	0.029	1.007	0.196	3.656	1.016	0.869	0.165	0.066	1.306
12/25	0.897	0.023	0.697	0.196	2.563	0.704	0.909	0.151	0.073	0.911
12/26	1.649	0.019	0.494	0.196	1.776	0.494	0.712	0.142	0.355	0.651
12/27	1.233	0.016	0.355	0.196	1.271	0.352	0.552	0.136	0.49	1.241
12/28	0.91	0.014	0.261	0.197	0.942	0.255	0.885	0.132	0.572	1.418
12/29	0.702	0.012	0.198	0.197	0.725	0.188	9.829	0.129	2.735	1.705
12/30	0.565	0.011	0.155	0.197	0.58	0.196	15.561	0.127	1.918	1.187
12/31	0.475	0.01	0.125	0.197	0.482	1.567	11.24	1.31	1.278	0.902

Table AE.2: Daily Average Streamflow for 10 years at Eighteen Mile River, before the confluence.

Day	Eighteen Mile River @ Confluence Average Daily Streamflow (cms)									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.554	0.357	0.007	0.067	0.207	0.349	2.021	7.337	3.656	0.74
1/2	0.717	0.319	0.007	0.793	0.201	0.304	1.378	7.906	4.804	0.972
1/3	3.605	0.48	0.007	3.203	0.196	0.273	0.898	11.089	6.601	2.902
1/4	7.487	2.975	0.007	3.633	0.192	0.25	0.599	8.349	5.613	4.852
1/5	11.119	9.099	0.007	4.556	0.19	0.235	0.41	5.426	4.222	5.916
1/6	8.161	11.484	0.008	2.925	0.188	0.223	0.287	3.597	2.859	4.175
1/7	5.28	7.982	0.008	1.927	0.186	0.215	0.206	2.446	1.969	2.692
1/8	3.501	6.055	0.008	1.331	0.184	0.209	0.152	1.706	1.384	1.772
1/9	2.391	4.347	0.008	0.933	0.183	0.205	0.248	1.221	0.993	1.193
1/10	1.682	3.675	0.008	1.201	0.182	0.369	0.885	0.181	0.728	0.821
1/11	1.222	2.507	0.008	2.301	0.181	1.521	0.612	0.18	0.545	0.901
1/12	0.917	1.739	0.008	1.653	0.179	1.899	0.404	0.179	1.295	3.078
1/13	0.712	1.246	0.008	1.132	0.178	1.291	0.275	0.178	4.128	3.466
1/14	0.573	0.922	0.008	0.787	0.177	0.886	0.194	0.178	8.072	5.233
1/15	0.476	0.705	0.008	0.558	0.177	0.639	0.142	0.177	5.654	3.371
1/16	0.409	0.559	0.008	0.404	0.264	0.484	0.11	0.176	3.758	2.177
1/17	0.361	0.464	0.008	0.299	0.463	0.385	0.089	0.175	2.55	1.733
1/18	0.327	0.402	0.008	0.226	0.367	0.321	0.073	0.174	1.766	4.529
1/19	0.303	0.355	0.008	0.175	0.291	0.278	0.062	0.173	1.248	3.213
1/20	0.285	0.32	0.008	0.139	0.245	0.249	0.055	0.172	0.9	3.778
1/21	0.272	0.293	0.008	0.113	0.217	0.231	0.049	0.171	0.664	3.606
1/22	0.402	0.273	0.508	0.094	0.199	0.218	0.045	0.171	0.5	2.441
1/23	1.323	0.324	3.461	0.081	0.188	0.306	0.041	0.17	0.385	1.67
1/24	1.007	0.983	5.672	0.071	0.18	1.297	0.039	0.169	0.305	1.439
1/25	0.755	1.745	4.879	0.064	0.174	1.418	0.038	0.168	0.247	1.043
1/26	0.59	1.261	3.279	0.058	0.171	2.272	0.036	0.167	0.205	0.762
1/27	0.48	0.92	2.222	0.054	0.168	4.951	0.035	0.166	0.175	0.566
1/28	0.405	0.842	1.825	0.052	0.166	7.411	0.035	0.165	0.154	0.717
1/29	0.353	1.057	1.466	0.049	0.164	6.405	0.034	0.164	0.139	5.152
1/30	0.317	1.046	1.188	0.048	0.441	4.408	0.034	0.163	0.128	9.718
1/31	0.291	0.887	0.831	0.046	1.483	3.074	0.033	0.162	0.119	7.695
2/1	0.272	0.714	0.587	0.046	2.063	2.198	0.033	0.161	0.112	5.254
2/2	0.258	0.557	0.966	0.045	1.56	1.759	0.13	0.16	0.107	3.676
2/3	0.358	0.449	2.169	0.044	1.118	1.302	1.594	0.159	0.102	4.21
2/4	1.382	0.375	2.011	0.044	0.821	0.977	5.49	0.158	0.099	4.718
2/5	2.97	0.323	1.44	0.044	0.634	0.751	3.724	0.157	0.096	3.269
2/6	3.14	0.287	1.054	0.043	0.892	0.591	2.505	0.156	0.094	2.293
2/7	2.229	0.26	0.84	0.043	1.872	0.512	1.715	0.155	0.27	1.635
2/8	1.59	0.241	0.622	0.043	1.358	1.086	1.215	0.154	0.844	1.183
2/9	1.166	0.227	0.525	0.043	9.545	2.032	0.892	0.153	0.783	0.87
2/10	0.88	0.216	0.671	0.043	18.816	2.716	0.661	0.152	0.572	0.649
2/11	0.685	0.287	1.367	0.043	12.806	2.995	0.496	0.15	0.423	0.492
2/12	0.549	1.235	2.701	0.042	8.768	2.122	0.377	0.149	0.322	0.379
2/13	0.454	0.981	3.477	0.042	6.103	1.841	0.29	0.148	0.254	0.297
2/14	0.385	0.737	2.435	0.042	4.317	1.37	0.227	0.147	0.206	0.236
2/15	0.336	0.572	1.704	0.042	3.102	1.05	0.179	0.146	0.357	0.193
2/16	0.302	0.555	1.432	0.042	2.263	1.408	0.144	0.145	1.495	0.825
2/17	0.278	0.858	2.411	0.042	1.677	2.049	0.118	0.144	1.142	6.369
2/18	0.311	2.365	1.798	0.042	1.286	1.522	0.098	0.144	0.81	4.75
2/19	1.375	2.189	1.272	0.042	1	1.494	0.083	0.144	0.589	3.335
2/20	3.828	1.577	0.91	0.042	0.79	7.91	0.071	0.203	0.44	2.376
2/21	9.474	1.164	0.658	0.042	0.634	10.713	0.183	1.026	0.338	1.717
2/22	11.136	0.881	0.482	0.061	0.517	8.265	1.176	0.875	0.268	1.259
2/23	7.848	0.685	0.357	1.554	0.429	5.847	0.884	0.922	0.22	0.936
2/24	5.592	0.547	0.267	3.784	0.363	4.209	0.626	0.729	0.185	0.706
2/25	4.047	0.449	0.231	6.982	3.016	4.597	0.452	0.553	0.16	0.541
2/26	3.229	0.379	0.267	5.875	8.273	8.035	0.332	0.45	0.142	0.42
2/27	4.604	0.468	0.195	4.121	6.029	5.843	0.249	1.175	0.128	0.332
2/28	5.306	0.743	0.924	2.899	4.252	4.185	0.191	4.321	0.118	0.266
2/29				2.068				4.297		
3/1	4.13	0.578	1.228	2.268	3.05E+00	3.045	0.149	4.489	0.11	0.217
3/2	4.194	0.908	0.92	3.042	2.218	2.68	0.12	6.003	0.104	0.181
3/3	3.123	1.398	1.418	2.144	1.711	6.273	0.098	5.745	0.1	0.153
3/4	2.304	1.276	1.032	1.533	1.88	4.653	0.082	4.469	0.097	0.132
3/5	1.73	0.944	0.722	1.112	1.806	3.34	0.069	7.08	0.094	0.117
3/6	1.323	0.712	0.513	0.819	1.335	2.464	0.061	8.163	0.424	0.105
3/7	1.031	0.548	0.37	0.612	1.003	2.398	0.054	5.831	5.394	0.168
3/8	0.82	1.001	0.27	0.463	0.77	5.455	0.049	4.81	12.284	1.51
3/9	0.666	5.409	0.2	0.483	0.604	11.135	0.046	3.801	8.694	9.634
3/10	0.882	7.862	0.151	1.042	0.485	14.194	0.043	2.978	6.067	14.641
3/11	2.594	5.348	0.115	0.979	0.398	9.734	0.042	2.233	4.296	11.784
3/12	1.866	3.708	0.154	0.729	0.334	6.687	0.04	1.887	3.086	10.019
3/13	1.329	2.623	0.598	0.531	0.524	4.749	0.039	1.421	2.248	11.318
3/14	0.977	1.893	0.438	1.108	1.898	4.029	0.039	1.152	1.66	10.743
3/15	2.389	1.396	0.307	4.848	3.838	3.482	0.453	1.553	1.243	7.432
3/16	2.476	1.052	0.22	4.088	3.899	3.118	3.461	1.153	0.944	5.49
3/17	1.758	0.812	0.214	2.91	2.664	2.252	5.078	0.862	0.728	3.842
3/18	1.454	0.733	0.551	2.05	1.846	1.71	5.636	0.662	0.69	2.727
3/19	1.065	6.347	0.623	1.459	1.528	1.376	4.383	0.556	1.47	1.963
3/20	0.804	8.419	0.446	1.034	2.104	2.073	3.858	1.416	1.785	1.433
3/21	1.028	8.211	0.337	0.747	1.975	3.721	3.493	3.64	2.206	1.06
3/22	1.808	5.682	0.778	0.55	2.603	4.263	3.076	2.56	2.405	0.795
3/23	1.295	3.965	1.578	0.422	3.113	3.013	2.545	1.777	2.204	0.605
3/24	0.944	2.82	1.48	0.368	3.923	2.207	1.807	1.955	1.62	0.483
3/25	3.554	2.123	1.025	0.327	2.692	2.216	1.3	6.151	1.385	0.437
3/26	7.478	1.766	0.713	0.29	1.872	1.587	0.948	8.078	1.008	0.337
3/27	5.849	1.301	0.508	1.648	1.333	1.153	0.699	7.649	0.786	0.286
3/28	5.75	1.121	0.368	4.313	0.973	0.864	0.541	5.228	0.725	0.348
3/29	10.292	1.189	0.271	7.997	0.782	0.81	1.852	3.661	1.747	0.588
3/30	10.807	1.04	0.203	5.518	0.769	1.219	2.728	4.71	2.828	0.449
3/31	8.391	1.344	0.155	3.761	0.573	1.781	2.05	4.931	3.362	0.354
4/1	5.783	2.711	0.121	2.607	0.442	1.484	1.483	3.613	2.568	1.439
4/2	4.204	3.576	0.097	1.837	0.354	1.292	1.15	2.639	2.091	1.124

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	4.857	3.576	0.079	1.315	0.303	1.252	0.824	1.915	2.715	0.789
4/4	4.475	2.52	0.077	1.35	0.37	1.272	0.608	1.396	1.892	0.614
4/5	3.224	1.814	0.339	2.342	0.574	1.163	0.471	1.039	1.338	0.609
4/6	2.754	1.327	0.247	1.632	2.155	1.001	0.357	0.792	0.969	0.594
4/7	3.58	0.996	0.21	1.263	4.413	0.74	0.278	0.618	0.719	1.657
4/8	2.613	0.892	1.08	1.316	4.828	0.688	0.222	0.495	0.548	2.447
4/9	1.929	1.315	0.919	0.926	5.185	4.897	0.208	0.406	0.429	1.727
4/10	1.453	0.995	0.63	0.664	3.734	3.958	0.23	0.342	0.347	1.243
4/11	1.127	0.74	1.658	0.489	2.661	2.756	0.181	0.295	0.305	0.913
4/12	1.053	0.571	6.376	0.384	2.188	2.015	0.148	0.26	0.271	1.343
4/13	1.179	0.463	4.447	0.349	1.735	1.782	0.126	0.235	0.244	4.328
4/14	0.922	0.384	3.044	0.282	1.313	1.409	0.111	0.216	0.227	3.685
4/15	0.73	0.35	2.118	0.242	1.015	1.207	0.101	0.202	0.214	2.671
4/16	0.592	0.506	1.497	0.221	1.6	1.185	0.094	0.193	0.209	1.921
4/17	0.493	1.926	2.493	0.192	3.811	1.195	0.09	0.186	0.209	1.407
4/18	0.421	1.389	2.602	0.169	2.735	1.181	0.087	1.467	0.211	1.054
4/19	0.368	1.011	1.889	0.154	1.936	4.251	0.085	2.191	0.226	0.813
4/20	0.329	0.761	1.368	0.918	1.403	4.251	0.084	1.656	0.753	0.645
4/21	0.3	0.594	1.002	4.874	1.058	3.093	0.084	1.711	0.932	0.526
4/22	0.279	0.481	1.433	3.576	1.369	2.355	0.085	2.967	0.676	0.752
4/23	0.263	0.199	4.507	2.565	1.201	1.693	0.086	2.21	0.763	5.103
4/24	0.252	0.2	3.162	1.887	1.055	1.248	0.088	1.636	2.278	4.542
4/25	0.243	0.202	2.232	1.417	0.809	0.946	0.089	1.449	3.94	3.931
4/26	0.237	0.203	1.601	1.079	0.644	0.737	0.091	1.918	5.02	3.089
4/27	0.233	0.205	1.167	0.813	1.283	0.584	0.092	1.473	6.131	2.176
4/28	0.282	0.206	0.865	0.662	1.012	1.478	0.094	1.126	5.113	1.566
4/29	0.419	0.207	0.652	0.574	0.794	1.736	0.096	0.849	4.562	1.151
4/30	0.591	0.208	0.5	0.487	0.697	1.263	0.097	0.885	3.229	0.876
5/1	1.177	0.208	0.391	0.536	0.692	0.952	2.717	1.414	2.329	0.773
5/2	1.501	0.209	0.311	0.623	0.736	1.999	4.304	5.319	1.871	0.712
5/3	5.363	0.209	0.252	0.456	0.786	2.165	2.967	6.229	1.549	0.674
5/4	8.34	0.21	0.208	0.347	0.825	1.552	2.085	4.356	1.162	0.63
5/5	5.822	0.211	0.176	0.273	1.043	1.142	1.95	3.547	0.86	0.549
5/6	5.538	0.212	0.151	0.22	0.859	1.382	2.778	2.688	0.686	0.471
5/7	4.071	0.213	0.133	0.181	0.749	2.78	1.968	2.206	0.658	0.389
5/8	2.915	0.214	0.118	0.155	1.836	2.216	1.426	2.853	0.641	0.347
5/9	4.166	0.214	0.108	0.139	2.267	4.059	1.069	5.63	0.677	0.414
5/10	4.593	0.213	0.1	0.128	1.763	5.484	0.88	6.62	0.724	0.471
5/11	3.381	0.213	0.093	0.12	2.914	3.983	3.907	5.149	0.701	0.825
5/12	2.752	0.213	0.089	0.618	5.187	5.133	7.568	4.086	0.594	0.927
5/13	3.957	0.213	0.084	7.114	3.755	7.482	6.444	3.528	0.469	0.8
5/14	3.001	0.212	0.081	4.823	2.769	6.331	7.499	3.405	1.373	0.775
5/15	3.803	0.212	0.078	3.117	2.264	4.561	5.131	5.518	1.766	0.688
5/16	8.506	0.211	0.076	2.065	2.02	5.655	3.564	3.754	1.184	0.669
5/17	7.208	0.21	0.075	1.415	1.881	10.82	2.807	2.558	0.829	0.614
5/18	5.329	0.209	0.074	11.65	1.807	7.481	1.994	1.796	0.612	1.158
5/19	5.174	0.208	0.073	11.861	1.738	5.272	1.522	1.3	0.478	1.316
5/20	3.972	0.206	0.073	7.632	1.729	3.726	1.876	0.972	0.427	0.977

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	3.079	0.205	0.073	5.018	1.537	2.607	2.371	0.752	0.503	0.92
5/22	2.412	0.203	0.072	3.372	3.133	1.874	1.583	1.31	0.456	0.734
5/23	1.86	0.201	0.072	2.314	5.422	1.388	1.179	7.646	0.376	0.206
5/24	1.72	0.2	0.072	1.624	3.742	1.514	7.597	15.867	0.327	0.208
5/25	2.267	0.198	0.094	1.168	0.245	1.465	6.327	12.223	0.297	0.211
5/26	2.034	0.196	0.213	0.859	0.247	1.636	3.993	9.366	0.277	0.213
5/27	1.804	0.194	0.167	0.647	0.249	1.57	2.619	6.236	0.265	0.215
5/28	1.823	0.192	0.138	0.5	0.251	1.674	1.79	4.249	0.234	0.216
5/29	1.896	0.19	0.12	0.398	0.253	1.836	1.25	2.965	0.236	0.217
5/30	2.275	0.189	0.107	0.33	0.255	2.447	0.907	2.12	0.236	0.218
5/31	2.395	0.187	0.099	0.286	0.257	2.887	0.686	1.554	0.237	0.218
6/1	2.191	0.185	0.093	0.25	0.259	2.57	0.541	1.171	0.237	0.218
6/2	2.073	0.184	0.09	0.222	0.26	2.225	0.445	0.26	0.236	0.219
6/3	2.029	0.183	0.087	0.201	0.262	1.603	0.379	0.261	0.236	0.219
6/4	2.017	0.181	0.085	0.185	0.263	1.192	0.335	0.263	0.235	0.219
6/5	2.025	0.178	0.08	0.172	0.265	0.917	0.303	0.264	0.234	0.22
6/6	2.088	0.176	0.08	0.161	0.266	0.729	0.283	0.265	0.233	0.221
6/7	2.064	0.174	0.08	0.154	0.266	0.601	0.268	0.266	0.231	0.221
6/8	1.581	0.171	0.08	0.147	0.266	0.511	0.23	0.266	0.23	0.221
6/9	1.181	0.169	0.079	0.142	0.265	0.449	0.231	0.265	0.228	0.22
6/10	0.901	0.166	0.079	0.138	0.264	0.404	0.233	0.265	0.227	0.219
6/11	0.717	0.163	0.078	0.135	0.263	0.373	0.235	0.264	0.225	0.218
6/12	0.593	0.16	0.078	0.133	0.263	0.351	0.236	0.262	0.223	0.216
6/13	0.508	0.157	0.077	0.291	0.263	0.287	0.238	0.261	0.221	0.215
6/14	0.451	0.155	0.077	0.855	0.262	0.289	0.239	0.259	0.22	0.213
6/15	0.302	0.152	0.076	0.762	0.261	0.29	0.24	0.258	0.218	0.21
6/16	0.303	0.149	0.075	0.546	0.259	0.291	0.24	0.257	0.217	0.208
6/17	0.304	0.145	0.075	0.41	0.257	0.292	0.239	0.256	0.215	0.205
6/18	0.305	0.142	0.074	0.321	0.255	0.293	0.237	0.254	0.213	0.202
6/19	0.305	0.137	0.073	0.264	0.253	0.294	0.235	0.252	0.21	0.199
6/20	0.305	0.133	0.072	0.225	0.251	0.294	0.234	0.249	0.207	0.196
6/21	0.305	0.128	0.071	0.199	0.248	0.294	0.234	0.246	0.204	0.193
6/22	0.305	0.122	0.069	0.182	0.246	0.293	0.232	0.243	0.201	0.19
6/23	0.305	0.116	0.068	0.169	0.245	0.292	0.23	0.241	0.198	0.187
6/24	0.306	0.109	0.067	0.162	0.246	0.291	0.227	0.24	0.195	0.184
6/25	0.306	0.102	0.065	3.677	0.246	0.29	0.224	0.239	0.192	0.18
6/26	0.305	0.095	0.063	4.272	0.246	0.287	0.22	0.239	0.188	0.175
6/27	0.303	0.089	0.062	3.2	0.245	0.285	0.217	0.238	0.184	0.169
6/28	0.3	0.084	0.06	2.427	0.242	0.283	0.214	0.237	0.18	0.164
6/29	0.297	0.079	0.059	1.864	0.24	0.281	0.211	0.235	0.175	0.159
6/30	0.294	0.073	0.058	1.45	0.236	0.279	0.208	0.232	0.169	0.154
7/1	0.29	0.069	0.057	1.144	0.233	0.276	0.204	0.229	0.163	0.149
7/2	0.286	0.065	0.056	0.916	0.23	0.273	0.2	0.225	0.156	0.143
7/3	0.282	0.062	0.055	0.743	0.227	0.269	0.197	0.222	0.149	0.137
7/4	0.278	0.059	0.054	0.612	0.224	0.265	0.193	0.218	0.142	0.131
7/5	0.274	0.057	0.052	0.512	0.221	0.261	0.189	0.214	0.136	0.124
7/6	0.271	0.055	0.051	0.433	0.218	0.257	0.185	0.211	0.13	0.117
7/7	0.267	0.053	0.05	0.372	0.214	0.252	0.18	0.208	0.123	0.11

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.264	0.05	0.048	0.323	0.21	0.248	0.176	0.206	0.117	0.103
7/9	0.26	0.048	0.047	0.285	0.206	0.244	0.173	0.203	0.111	0.096
7/10	0.257	0.047	0.046	0.255	0.203	0.24	0.17	0.201	0.104	0.089
7/11	0.253	0.046	0.045	0.233	0.199	0.236	0.166	0.197	0.098	0.084
7/12	0.25	0.045	0.043	0.215	0.194	0.231	0.164	0.194	0.091	0.081
7/13	0.245	0.044	0.042	0.2	0.19	0.226	0.163	0.191	0.084	0.078
7/14	0.241	0.043	0.04	0.188	0.185	0.22	0.161	0.189	0.078	0.076
7/15	0.238	0.043	0.038	0.178	0.18	0.214	0.158	0.188	0.072	0.074
7/16	0.235	0.042	0.037	0.17	0.174	0.207	0.156	0.19	0.076	0.072
7/17	0.232	0.041	0.036	0.14	0.17	0.199	0.154	0.192	0.22	0.07
7/18	0.23	0.041	0.035	0.141	0.165	0.192	0.151	0.195	0.195	0.068
7/19	0.227	0.04	0.035	0.141	0.159	0.184	0.148	0.197	0.167	0.067
7/20	0.224	0.04	0.034	0.142	0.153	0.178	0.146	0.198	0.146	0.065
7/21	0.221	0.039	0.034	0.141	0.146	0.171	0.143	0.199	0.129	0.063
7/22	0.218	0.039	0.033	0.141	0.155	0.164	0.14	0.199	0.115	0.062
7/23	0.214	0.038	0.033	0.14	0.169	0.157	0.137	0.199	0.103	0.061
7/24	0.211	0.038	0.032	0.139	0.161	0.152	0.134	0.197	0.093	0.06
7/25	0.208	0.037	0.032	0.138	0.154	0.147	0.132	0.195	0.085	0.059
7/26	0.204	0.037	0.032	0.137	0.149	0.143	0.129	0.192	0.079	0.059
7/27	0.201	0.036	0.031	0.136	0.143	0.139	0.126	0.19	0.075	0.058
7/28	0.198	0.036	0.031	0.135	0.138	0.136	0.123	0.187	0.071	0.057
7/29	0.195	0.035	0.03	0.134	0.133	0.133	0.12	0.185	0.069	0.057
7/30	0.192	0.035	0.03	0.134	0.129	0.131	0.117	0.182	0.067	0.056
7/31	0.189	0.034	0.029	0.135	0.124	0.129	0.113	0.179	0.065	0.056
8/1	0.185	0.034	0.029	0.137	0.12	0.127	0.11	0.177	0.062	0.055
8/2	0.181	0.033	0.029	0.139	0.116	0.126	0.107	0.174	0.06	0.055
8/3	0.177	0.033	0.028	0.142	0.111	0.124	0.105	0.172	0.058	0.086
8/4	0.173	0.032	0.028	0.145	0.107	0.121	0.135	0.169	0.056	0.134
8/5	0.17	0.032	0.028	0.146	0.103	0.119	0.14	0.167	0.055	0.122
8/6	0.166	0.031	0.027	0.147	0.1	0.116	0.135	0.164	0.054	0.108
8/7	0.163	0.083	0.027	0.147	0.097	0.113	0.131	0.162	0.052	0.097
8/8	0.159	0.103	0.026	0.147	0.093	0.11	0.128	0.159	0.05	0.088
8/9	0.156	0.088	0.026	0.147	0.089	0.107	0.125	0.156	0.049	0.081
8/10	0.152	0.076	0.026	0.147	0.085	0.105	0.121	0.153	0.049	0.075
8/11	0.148	0.067	0.025	0.146	0.082	0.102	0.117	0.151	0.048	0.071
8/12	0.145	0.059	0.025	0.145	0.079	0.099	0.114	0.148	0.048	0.067
8/13	0.142	0.053	0.025	0.144	0.076	0.096	0.111	0.146	0.047	0.064
8/14	0.141	0.048	0.024	0.143	0.072	0.093	0.109	0.144	0.047	0.061
8/15	0.14	0.044	0.024	0.142	0.069	0.091	0.106	0.141	0.047	0.059
8/16	0.139	0.041	0.024	0.141	0.066	0.088	0.103	0.139	0.046	0.057
8/17	0.14	0.038	0.023	0.142	0.063	0.086	0.1	0.136	0.046	0.055
8/18	0.141	0.036	0.023	0.142	0.061	0.084	0.097	0.133	0.045	0.054
8/19	0.141	0.034	0.023	0.144	0.061	0.082	0.092	0.129	0.045	0.052
8/20	0.141	0.032	0.022	0.146	0.168	0.081	0.089	0.126	0.044	0.051
8/21	0.141	0.026	0.022	0.149	0.159	0.079	0.086	0.122	0.044	0.05
8/22	0.142	0.025	0.022	0.15	0.139	0.077	0.084	0.119	0.043	0.049
8/23	0.146	0.025	0.022	0.151	0.123	0.076	0.081	0.115	0.043	0.048
8/24	0.15	0.025	0.021	0.153	0.111	0.074	0.079	0.112	0.043	0.048

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.154	0.024	0.021	0.155	0.102	0.073	0.076	0.108	0.042	0.047
8/26	0.157	0.024	0.021	0.157	0.094	0.071	0.074	0.105	0.042	0.046
8/27	0.16	0.024	0.02	0.158	0.087	0.069	0.071	0.101	0.041	0.045
8/28	0.161	0.023	0.02	0.159	0.081	0.068	0.068	0.099	0.041	0.044
8/29	0.163	0.023	0.02	0.16	0.056	0.066	0.065	0.096	0.04	0.044
8/30	0.164	0.023	0.02	0.159	0.055	0.065	0.063	0.095	0.04	0.043
8/31	0.165	0.022	0.019	0.159	0.054	0.063	0.061	0.093	0.039	0.043
9/1	0.165	0.022	0.019	0.158	0.053	0.063	0.06	0.091	0.039	0.042
9/2	0.165	0.022	0.019	0.158	0.052	0.062	0.058	0.089	0.039	0.042
9/3	0.163	0.022	0.019	0.158	0.052	0.061	0.057	0.088	0.038	0.041
9/4	0.162	0.021	0.018	0.158	0.051	0.06	0.056	0.086	0.038	0.041
9/5	0.16	0.021	0.018	0.159	0.051	0.06	0.055	0.084	0.037	0.041
9/6	0.157	0.021	0.018	0.16	0.05	0.059	0.053	0.083	0.037	0.04
9/7	0.155	0.02	0.018	0.16	0.05	0.059	0.052	0.081	0.037	0.04
9/8	0.154	0.02	0.017	0.159	0.049	0.058	0.051	0.08	0.036	0.039
9/9	0.153	0.02	0.017	0.159	0.049	0.058	0.05	0.079	0.036	0.039
9/10	0.151	0.02	0.017	0.158	0.049	0.057	0.048	0.079	0.035	0.038
9/11	0.151	0.019	0.017	0.158	0.048	0.056	0.048	0.078	0.035	0.038
9/12	0.152	0.019	0.016	0.157	0.048	0.056	0.047	0.077	0.035	0.038
9/13	0.153	0.019	0.016	0.157	0.047	0.055	0.046	0.076	0.034	0.037
9/14	0.154	0.019	0.016	0.187	0.047	0.055	0.046	0.074	0.034	0.037
9/15	0.156	0.018	0.016	1.268	0.047	0.054	0.045	0.073	0.033	0.036
9/16	0.156	0.018	0.016	2.032	0.046	0.054	0.044	0.072	0.033	0.036
9/17	0.156	0.018	0.015	1.609	0.046	0.053	0.044	0.07	0.032	0.035
9/18	0.155	0.018	0.015	1.277	0.045	0.052	0.044	0.069	0.032	0.035
9/19	0.292	0.017	0.015	1.028	0.045	0.052	0.043	0.067	0.032	0.035
9/20	1.556	0.017	0.015	0.843	0.045	0.051	0.043	0.066	0.031	0.034
9/21	1.338	0.017	0.015	1.503	0.044	0.051	0.042	0.064	0.031	0.034
9/22	1.04	0.017	0.014	1.435	0.075	0.05	0.044	0.063	0.03	0.033
9/23	0.826	0.016	0.014	2.534	0.084	0.049	0.088	0.061	0.03	0.033
9/24	0.669	0.016	0.014	2.924	0.074	0.049	0.083	0.06	0.03	0.033
9/25	0.554	0.016	0.014	2.294	0.179	0.048	0.459	0.059	0.116	0.032
9/26	0.469	0.016	0.014	1.821	4.259	0.048	0.42	0.057	5.053	0.032
9/27	0.406	0.016	0.013	1.445	6.938	0.047	0.424	0.056	5.6	0.031
9/28	0.358	0.015	0.013	1.14	5.181	0.047	0.491	0.056	4.114	0.031
9/29	0.321	0.015	0.013	0.914	3.856	0.046	2.042	0.055	6.344	0.031
9/30	0.305	0.015	0.013	0.745	2.9	0.046	2.256	0.054	5.768	0.031
10/1	0.315	0.015	0.013	0.62	2.203	0.045	2.302	0.054	5.24	0.03
10/2	0.287	0.015	0.013	0.525	1.691	0.045	4.409	0.053	4.294	0.03
10/3	0.272	0.014	0.012	0.453	1.311	0.044	4.06	0.053	3.222	0.03
10/4	0.263	0.014	0.012	0.397	1.027	0.044	5.556	0.052	2.44	0.282
10/5	0.296	0.014	0.012	0.355	0.966	0.043	6.799	0.051	1.864	0.571
10/6	0.273	0.014	0.012	0.322	3.667	0.043	5.747	0.051	1.435	0.416
10/7	0.256	0.014	0.012	0.761	5.221	0.042	4.179	0.05	1.114	0.308
10/8	0.244	0.013	0.012	2.218	4.289	0.042	3.079	0.05	0.871	0.232
10/9	0.239	0.013	0.011	1.66	3.222	0.041	2.298	0.049	0.686	0.177
10/10	0.247	0.013	0.011	1.246	2.447	0.041	1.738	0.049	0.544	0.138
10/11	0.238	0.013	0.011	0.958	1.88	0.04	1.332	0.048	0.435	0.261

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.232	0.013	0.011	0.756	1.468	0.04	1.035	0.048	0.35	1.933
10/13	0.227	0.013	0.011	0.612	1.165	0.039	0.815	0.047	0.284	2.323
10/14	0.223	0.012	0.011	0.509	1.925	0.039	0.669	0.047	0.232	1.715
10/15	0.221	0.012	0.01	0.434	2.744	0.039	1.503	0.047	0.191	1.218
10/16	0.22	0.012	0.01	0.38	2.087	0.038	1.312	0.046	0.159	0.88
10/17	0.218	0.012	0.01	0.339	7.245	0.038	0.984	0.066	0.133	1.48
10/18	0.218	0.012	0.01	0.309	6.632	0.037	0.754	0.209	0.113	2.556
10/19	0.217	0.012	0.01	0.286	4.696	0.037	0.592	0.196	0.029	1.827
10/20	0.216	0.011	0.01	0.269	3.377	0.036	0.475	0.157	0.029	1.316
10/21	0.215	0.011	0.01	0.208	2.467	0.036	0.391	0.129	0.029	0.954
10/22	0.214	0.011	0.01	0.208	1.832	0.036	0.33	0.108	0.029	1.065
10/23	0.213	0.011	0.029	0.207	1.402	0.035	0.284	0.093	0.029	2.065
10/24	0.213	0.011	0.167	0.207	1.299	0.035	0.25	0.08	0.029	2.215
10/25	0.213	0.011	0.118	0.206	4.531	0.035	0.225	0.07	0.029	2.152
10/26	0.214	0.01	0.083	0.205	4.306	0.034	0.206	0.063	0.029	1.63
10/27	0.235	0.01	0.057	0.204	4.965	0.034	0.191	0.057	0.029	1.183
10/28	0.37	0.01	0.039	0.204	3.666	0.034	0.181	0.053	0.029	2.705
10/29	0.635	0.01	0.029	0.203	2.657	0.033	0.173	0.05	0.029	3.876
10/30	0.544	0.01	0.022	0.202	1.96	0.033	0.167	0.056	0.029	2.786
10/31	0.455	0.01	0.017	0.202	1.473	0.033	0.162	0.055	0.029	2.005
11/1	0.584	0.01	0.014	0.201	1.127	0.032	0.158	0.058	0.029	1.463
11/2	1.04	0.01	0.441	0.2	1.827	0.032	0.508	2.705	0.029	1.082
11/3	1.95	0.009	5.517	0.199	2.243	0.032	1.802	3.191	0.029	0.812
11/4	1.662	0.009	6.353	0.198	1.643	0.032	3.234	2.489	0.029	0.618
11/5	1.952	0.009	6.339	0.197	1.23	0.098	3.399	3.524	0.029	0.477
11/6	1.587	0.009	4.419	0.196	0.942	0.692	2.519	2.532	0.029	0.373
11/7	1.161	0.009	3.089	0.195	0.739	0.95	1.806	1.802	0.029	0.296
11/8	0.876	0.009	2.188	0.194	0.655	0.659	1.323	1.301	0.029	0.234
11/9	0.684	0.009	1.568	0.193	0.651	0.458	0.992	1.021	0.029	0.189
11/10	0.553	0.009	1.137	0.192	0.504	0.711	0.761	1.295	0.029	0.157
11/11	0.462	0.008	0.833	0.191	0.407	1.93	0.652	0.971	0.029	0.443
11/12	0.399	0.008	0.616	0.191	0.342	1.543	0.565	0.708	0.029	0.366
11/13	0.353	0.008	0.459	0.19	0.297	1.072	0.451	0.527	0.029	0.257
11/14	0.321	0.008	0.346	0.19	0.266	0.758	0.402	0.401	0.029	0.189
11/15	0.298	0.008	0.262	0.19	0.244	0.544	0.52	0.311	0.055	0.147
11/16	0.281	0.008	0.201	0.189	0.228	0.398	0.434	0.247	2.812	3.051
11/17	0.268	0.035	0.155	0.19	0.217	0.295	0.446	0.2	4.651	3.234
11/18	0.259	0.033	0.122	0.19	0.209	0.223	0.393	0.164	3.198	2.206
11/19	0.253	0.026	0.096	0.19	0.313	0.194	1.392	0.138	2.207	1.534
11/20	0.291	0.021	0.077	0.191	0.965	0.29	1.728	0.12	2.142	1.087
11/21	0.925	0.02	0.061	0.191	0.877	0.241	1.246	0.106	1.823	0.786

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/22	1.385	0.017	0.05	0.192	0.643	0.17	0.923	0.097	2.031	0.58
11/23	1.402	0.014	0.042	0.192	0.494	0.125	0.697	0.09	1.456	0.438
11/24	1.031	0.012	0.235	0.192	0.398	0.095	0.685	0.085	1.022	0.338
11/25	0.835	0.076	0.186	0.193	0.539	0.075	0.735	0.082	0.73	0.267
11/26	1.797	1.325	0.918	0.193	0.654	0.061	0.546	0.08	0.531	0.216
11/27	2.971	1.267	1.789	0.318	0.911	0.052	0.442	0.101	0.416	0.18
11/28	2.193	0.897	1.223	2.028	1.288	0.045	0.872	0.241	3.237	0.153
11/29	1.594	0.594	0.814	4.925	1.619	0.04	2.53	0.334	6.981	0.134
11/30	1.194	0.509	0.553	5.201	3.947	0.037	1.797	0.244	5.895	0.556
12/1	0.91	2.84	0.384	3.542	4.182	0.034	1.265	2.294	3.977	3.203
12/2	0.702	2.093	0.332	2.435	2.913	0.032	0.92	2.325	2.729	4.331
12/3	0.602	1.397	2.42	1.718	2.056	0.031	0.692	1.821	1.904	2.825
12/4	1.286	0.949	3.745	1.246	1.443	0.03	0.54	1.42	1.35	1.884
12/5	1.016	0.654	3.729	0.93	1.15	0.03	0.436	1.619	0.972	1.286
12/6	0.759	0.705	3.82	0.716	0.951	0.029	0.365	1.135	0.709	0.899
12/7	0.595	5.853	2.745	0.568	0.712	0.029	0.316	1.68	0.512	0.645
12/8	0.63	4.481	1.866	0.465	0.555	0.028	0.281	5.616	0.374	0.474
12/9	1.088	2.951	1.29	0.386	0.449	0.028	0.256	5.711	0.279	0.359
12/10	0.831	1.978	1.114	0.331	0.378	0.028	0.65	3.989	0.214	0.279
12/11	0.638	1.347	1.412	0.292	0.329	0.028	3.365	3.113	0.168	0.224
12/12	0.513	0.931	0.974	0.266	0.296	0.028	3.334	2.065	0.135	0.293
12/13	0.432	0.652	0.682	0.247	0.581	0.028	2.318	1.393	0.112	2.705
12/14	0.378	0.463	0.49	0.234	0.846	0.027	1.619	0.965	0.096	3.077
12/15	0.341	0.332	0.834	0.224	0.612	0.188	1.165	0.685	0.084	2.554
12/16	0.318	0.24	2.091	0.366	0.469	0.792	0.944	0.501	0.075	2.134
12/17	0.422	0.176	2.204	2.369	0.89	0.547	1.367	0.376	0.069	1.565
12/18	1.105	0.13	1.419	1.71	3.004	0.384	0.998	0.292	0.065	1.325
12/19	1.466	0.006	0.925	1.15	4.162	1.139	0.719	0.234	0.062	0.925
12/20	1.095	0.006	0.934	0.81	5.243	2.927	0.544	0.194	0.06	0.658
12/21	1.025	0.006	1.899	0.599	3.518	2.581	0.43	0.166	0.058	0.482
12/22	0.783	0.006	1.243	0.466	2.368	1.717	0.356	0.146	0.057	0.707
12/23	0.612	0.006	0.813	0.38	2.107	1.131	0.312	0.132	0.057	1.076
12/24	0.496	0.007	0.546	0.323	3.292	0.757	0.415	0.122	0.056	0.781
12/25	0.98	0.007	0.377	0.285	2.256	0.518	0.373	0.116	0.08	0.552
12/26	1.412	0.007	0.267	0.26	1.561	0.361	0.312	0.111	0.381	0.397
12/27	1.011	0.007	0.195	0.242	1.12	0.257	0.272	0.108	0.579	1.002
12/28	0.745	0.007	0.148	0.23	0.822	0.187	0.615	0.105	0.647	1.099
12/29	0.579	0.007	0.115	0.222	0.625	0.139	8.326	0.104	2.478	1.285
12/30	0.473	0.007	0.093	0.216	0.496	0.154	12.088	0.103	1.693	0.862
12/31	0.405	0.007	0.078	0.212	0.41	1.181	8.52	1.348	1.097	0.633

Table AE.3: Daily Average Streamflow for 10 years for Boyd Creek.

Day	Boyd Creek Average Daily Streamflow (cms)									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.111	0.057	0.000631	0.011	0.022	0.053	0.996	2.785	1.401	0.309
1/2	0.084	0.044	0.000528	0.1	0.021	0.041	0.745	2.587	1.441	0.298
1/3	0.997	0.039	0.000535	1.081	0.021	0.033	0.513	3.486	2.593	0.881
1/4	2.24	0.841	0.000541	1.065	0.021	0.029	0.346	2.865	2.181	1.605
1/5	4.151	2.523	0.000548	1.645	0.02	0.025	0.234	1.885	1.651	2.239
1/6	3.391	4.223	0.000553	1.146	0.02	0.023	0.16	1.225	1.085	1.733
1/7	2.224	3.235	0.000559	0.741	0.02	0.022	0.109	0.798	0.705	1.134
1/8	1.445	2.379	0.000565	0.48	0.02	0.021	0.076	0.523	0.46	0.736
1/9	0.932	1.764	0.00057	0.311	0.02	0.02	0.063	0.345	0.301	0.48
1/10	0.661	1.438	0.000575	0.247	0.02	0.082	0.356	0.229	0.199	0.311
1/11	0.456	1.026	0.00058	0.801	0.02	0.657	0.294	0.155	0.133	0.229
1/12	0.316	0.697	0.000585	0.562	0.02	0.915	0.2	0.107	0.157	0.939
1/13	0.221	0.475	0.00059	0.371	0.019	0.691	0.136	0.075	1.324	1.067
1/14	0.157	0.326	0.000594	0.241	0.019	0.475	0.094	0.055	2.749	1.653
1/15	0.113	0.225	0.000598	0.157	0.019	0.328	0.065	0.042	2.206	1.299
1/16	0.083	0.157	0.000602	0.102	0.202	0.228	0.046	0.034	1.572	0.887
1/17	0.062	0.112	0.000606	0.067	0.489	0.16	0.033	0.028	1.083	0.607
1/18	0.048	0.081	0.000609	0.003	0.389	0.114	0.024	0.024	0.747	1.375
1/19	0.039	0.06	0.000613	0.003	0.272	0.083	0.019	0.022	0.517	1.295
1/20	0.032	0.046	0.000616	0.003	0.192	0.062	0.015	0.021	0.358	1.307
1/21	0.028	0.037	0.000619	0.003	0.137	0.048	0.012	0.018	0.249	1.465
1/22	0.046	0.03	0.076	0.003	0.099	0.038	0.01	0.018	0.175	1.093
1/23	0.592	0.026	1.144	0.003	0.073	0.031	0.009	0.018	0.123	0.754
1/24	0.502	0.138	2.334	0.003	0.056	0.311	0.008	0.017	0.088	0.588
1/25	0.347	0.497	2.156	0.003	0.044	0.451	0.008	0.017	0.064	0.425
1/26	0.241	0.632	1.575	0.003	0.035	0.547	0.007	0.017	0.047	0.293
1/27	0.17	0.443	1.096	0.003	0.03	1.319	0.007	0.017	0.036	0.203
1/28	0.121	0.299	0.83	0.003	0.026	2.239	0.007	0.017	0.028	0.141
1/29	0.088	0.269	0.69	0.003	0.023	2.698	0.007	0.017	0.023	0.972
1/30	0.065	0.239	0.539	0.003	0.046	1.901	0.007	0.017	0.019	2.989
1/31	0.05	0.193	0.382	0.003	0.531	1.282	0.007	0.017	0.016	2.877
2/1	0.039	0.169	0.266	0.003	0.827	0.933	0.006	0.017	0.015	1.986
2/2	0.032	0.129	0.194	0.003	0.671	0.736	0.006	0.016	0.013	1.355
2/3	0.031	0.095	0.735	0.003	0.478	0.554	0.326	0.016	0.012	1.085
2/4	0.424	0.071	0.749	0.003	0.332	0.395	1.771	0.016	0.012	1.603
2/5	0.914	0.055	0.568	0.003	0.232	0.283	1.581	0.016	0.011	1.17
2/6	1.206	0.043	0.402	0.003	0.26	0.204	1.107	0.016	0.011	0.831
2/7	0.947	0.035	0.33	0.003	0.64	0.148	0.776	0.016	0.017	0.591
2/8	0.674	0.029	0.234	0.003	0.587	0.287	0.545	0.016	0.297	0.421
2/9	0.481	0.025	0.192	0.003	1.149	0.625	0.383	0.016	0.286	0.301
2/10	0.344	0.022	0.188	0.003	6.498	0.846	0.269	0.015	0.218	0.216
2/11	0.248	0.02	0.246	0.003	5.25	1.15	0.19	0.015	0.159	0.155
2/12	0.18	0.34	0.589	0.003	3.73	0.871	0.135	0.015	0.116	0.113
2/13	0.132	0.367	0.962	0.003	2.652	0.723	0.096	0.015	0.085	0.083
2/14	0.097	0.262	0.755	0.003	1.899	0.55	0.069	0.015	0.064	0.061
2/15	0.073	0.188	0.526	0.003	1.358	0.392	0.05	0.015	0.054	0.046
2/16	0.056	0.149	0.359	0.003	0.968	0.367	0.037	0.015	0.504	0.088
2/17	0.044	0.182	0.693	0.003	0.691	0.593	0.027	0.015	0.511	1.595
2/18	0.036	0.696	0.637	0.003	0.495	0.507	0.021	0.015	0.367	1.765
2/19	0.22	0.816	0.464	0.003	0.356	0.362	0.016	0.015	0.265	1.252
2/20	0.979	0.587	0.333	0.003	0.257	1.642	0.014	0.015	0.191	0.889
2/21	2.405	0.41	0.24	0.003	0.187	4.031	0.077	0.54	0.139	0.632
2/22	4.338	0.303	0.173	0.003	0.137	3.357	0.551	0.599	0.102	0.45
2/23	3.149	0.22	0.124	0.395	0.101	2.389	0.488	0.569	0.076	0.321
2/24	2.229	0.161	0.09	1.172	0.076	1.667	0.351	0.48	0.057	0.23
2/25	1.58	0.119	0.069	1.766	0.358	1.566	0.253	0.349	0.043	0.166
2/26	1.11	0.089	0.103	1.719	2.126	4.457	0.182	0.255	0.034	0.12
2/27	1.752	0.071	0.079	1.412	1.856	3.854	0.132	0.355	0.027	0.087
2/28	2.075	0.259	0.175	1.038	1.321	2.74	0.096	0.762	0.022	0.065
2/29				0.744				1.262		
3/1	1.518	0.213	0.472	0.561	8.97E-01	1.949	0.071	1.357	0.019	0.049
3/2	1.399	0.231	0.35	1.097	0.665	1.387	0.052	1.563	0.016	0.037
3/3	1.066	0.45	0.456	0.828	0.472	2.217	0.039	1.721	0.014	0.029
3/4	0.758	0.476	0.419	0.593	0.518	2.061	0.03	1.417	0.013	0.023
3/5	0.541	0.349	0.301	0.426	0.56	1.467	0.023	1.497	0.012	0.019
3/6	0.387	0.253	0.217	0.293	0.431	1.045	0.018	2.763	0.011	0.016
3/7	0.278	0.184	0.156	0.211	0.308	0.746	0.015	2.055	1.418	0.014
3/8	0.201	0.135	0.112	0.148	0.221	0.982	0.012	1.654	4.708	0.187
3/9	0.146	0.843	0.081	0.104	0.16	2.452	0.011	1.308	4.019	2.2
3/10	0.108	2.816	0.058	0.288	0.126	3.533	0.009	1.069	2.818	5.567
3/11	0.856	2.056	0.042	0.327	0.097	2.823	0.009	0.777	1.977	4.776
3/12	0.809	1.47	0.029	0.258	0.072	2.008	0.008	0.811	1.388	3.633
3/13	0.577	1.053	0.277	0.182	0.067	1.446	0.007	0.683	0.975	3.244
3/14	0.412	0.755	0.232	0.128	0.67	1.079	0.007	0.478	0.686	3.57
3/15	0.584	0.542	0.16	1.539	1.012	0.87	0.007	0.756	0.484	2.573
3/16	1.016	0.391	0.111	1.534	1.593	0.738	1.225	0.637	0.342	1.908
3/17	0.723	0.269	0.104	1.155	1.286	0.556	1.622	0.446	0.243	1.378
3/18	0.542	0.201	0.224	0.806	0.91	0.401	1.633	0.313	0.173	0.976
3/19	0.397	1.781	0.172	0.563	0.645	0.291	1.378	0.223	0.133	0.693
3/20	0.285	2.969	0.119	0.393	0.722	0.231	1.163	0.521	0.157	0.492
3/21	0.206	3.241	0.082	0.275	0.715	1.079	1.124	1.67	0.165	0.351
3/22	0.511	2.359	0.462	0.193	0.664	1.572	0.81	1.296	0.331	0.251
3/23	0.385	1.629	0.688	0.136	0.586	1.325	0.558	0.902	0.932	0.177
3/24	0.272	1.127	0.494	0.096	0.888	0.922	0.385	0.63	0.772	0.128
3/25	0.44	0.781	0.342	0.068	0.701	0.851	0.267	1.316	0.583	0.181
3/26	2.466	0.543	0.236	0.051	0.501	0.632	0.185	1.948	0.42	0.145
3/27	1.899	0.379	0.164	0.212	0.354	0.442	0.13	2.63	0.298	0.105
3/28	1.71	0.267	0.113	1.04	0.251	0.31	0.091	1.85	0.207	0.08
3/29	2.647	0.313	0.079	2.581	0.18	0.219	0.595	1.286	0.195	0.175
3/30	3.465	0.304	0.055	2.067	0.188	0.187	1.205	1.24	0.508	0.301
3/31	2.975	0.366	0.038	1.505	0.143	0.328	0.974	1.803	0.685	0.236
4/1	2.097	0.833	0.027	1.062	0.105	0.433	0.675	1.254	0.624	0.589
4/2	1.461	1.092	0.019	0.75	0.099	0.433	0.568	0.848	0.441	0.656

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	1.175	1.395	0.014	0.53	0.08	0.443	0.397	0.633	0.893	0.46
4/4	0.875	1.001	0.01	0.408	0.073	0.439	0.289	0.453	0.701	0.329
4/5	0.612	0.704	0.131	0.888	0.1	0.42	0.225	0.325	0.495	0.398
4/6	0.429	0.491	0.169	0.722	0.325	0.385	0.161	0.234	0.351	0.43
4/7	0.663	0.342	0.13	0.511	1.234	0.278	0.113	0.17	0.25	0.482
4/8	0.527	0.242	0.369	0.583	1.364	0.207	0.077	0.124	0.179	1.188
4/9	0.37	0.472	0.485	0.455	1.756	1.272	0.06	0.092	0.129	0.831
4/10	0.262	0.415	0.35	0.323	1.456	1.601	0.175	0.069	0.094	0.582
4/11	0.187	0.317	0.249	0.229	1.02	1.113	0.143	0.053	0.07	0.408
4/12	0.147	0.231	2.182	0.163	0.765	0.775	0.104	0.041	0.053	0.335
4/13	0.174	0.191	1.968	0.117	0.623	0.945	0.077	0.033	0.041	1.506
4/14	0.131	0.187	1.399	0.084	0.469	0.833	0.057	0.028	0.032	1.559
4/15	0.093	0.41	0.994	0.062	0.345	0.671	0.043	0.024	0.026	1.163
4/16	0.073	0.444	0.706	0.045	0.294	0.632	0.033	0.021	0.022	0.807
4/17	0.057	1.011	0.771	0.034	1.367	0.648	0.026	0.019	0.02	0.606
4/18	0.045	0.951	1.196	0.026	1.144	0.645	0.021	0.188	0.018	0.441
4/19	0.036	0.684	0.868	0.021	0.845	1.127	0.018	1.003	0.016	0.323
4/20	0.03	0.493	0.633	0.094	0.607	1.826	0.015	0.756	0.111	0.24
4/21	0.026	0.356	0.451	1.456	0.437	1.343	0.014	0.616	0.513	0.184
4/22	0.023	0.259	0.321	1.405	0.448	1.1	0.012	1.02	0.375	0.2
4/23	0.02	0.189	1.996	0.976	0.472	0.798	0.012	0.918	0.269	1.094
4/24	0.019	0.139	1.809	0.696	0.461	0.577	0.011	0.677	0.673	1.725
4/25	0.018	0.104	1.285	0.491	0.37	0.426	0.011	0.514	1.248	1.387
4/26	0.017	0.078	0.914	0.347	0.272	0.34	0.011	0.767	1.654	1.309
4/27	0.016	0.06	0.65	0.246	0.469	0.25	0.011	0.677	1.852	0.945
4/28	0.031	0.047	0.463	0.175	0.534	0.311	0.01	0.513	1.694	0.682
4/29	0.059	0.038	0.005	0.126	0.409	0.961	0.01	0.363	1.727	0.494
4/30	0.079	0.031	0.006	0.091	0.328	0.719	0.011	0.313	1.248	0.366
5/1	0.109	0.027	0.006	0.067	0.296	0.552	0.398	0.442	0.89	0.297
5/2	0.211	0.023	0.006	0.05	0.284	0.563	2.154	1.51	0.659	0.255
5/3	0.375	0.065	0.006	0.038	0.287	0.73	1.524	2.759	0.54	0.228
5/4	2.473	0.015	0.006	0.03	0.308	0.539	1.042	1.947	0.395	0.208
5/5	1.804	0.015	0.006	0.024	0.415	0.391	0.715	1.486	0.285	0.183
5/6	1.519	0.015	0.006	0.021	0.402	0.301	1.42	1.156	0.209	0.155
5/7	1.207	0.015	0.006	0.018	0.335	0.519	1.043	0.924	0.182	0.127
5/8	0.877	0.015	0.006	0.016	0.508	0.446	0.715	0.762	0.164	0.1
5/9	0.912	0.015	0.006	0.015	1.197	0.643	0.492	1.935	0.161	0.108
5/10	1.236	0.015	0.006	0.014	0.997	1.756	0.34	2.214	0.169	0.119
5/11	0.904	0.015	0.006	0.013	0.869	1.213	0.946	1.881	0.172	0.191
5/12	0.611	0.015	0.006	0.013	1.594	1.09	2.291	1.409	0.153	0.304
5/13	0.871	0.015	0.006	2.197	1.253	2.295	2.16	1.093	0.117	0.271
5/14	0.683	0.015	0.006	2.43	0.851	1.957	2.636	0.889	0.2	0.246
5/15	0.497	0.015	0.006	1.707	0.61	1.386	2.044	1.38	0.722	0.227
5/16	2.445	0.015	0.006	1.2	0.466	1.109	1.42	1.258	0.521	0.209
5/17	2.189	0.015	0.006	0.808	0.377	3.308	1.158	0.906	0.342	0.199
5/18	1.543	0.015	0.006	2.653	0.321	2.524	0.835	0.733	0.226	0.232
5/19	1.352	0.015	0.006	4.498	0.283	1.703	0.61	0.747	0.152	0.506
5/20	0.991	0.015	0.006	2.965	0.261	1.146	0.478	0.533	0.132	0.359

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	0.692	0.015	0.006	1.957	0.207	0.772	1.054	0.375	0.159	0.292
5/22	0.489	0.015	0.005	1.293	0.27	0.522	0.778	0.257	0.18	0.24
5/23	0.344	0.015	0.005	0.857	1.199	0.355	0.562	2.59	0.212	0.164
5/24	0.257	0.015	0.005	0.569	0.834	0.3	1.798	4.956	0.21	0.114
5/25	0.288	0.015	0.022	0.38	0.552	0.264	2.49	4.765	0.142	0.082
5/26	0.255	0.015	0.113	0.256	0.367	0.263	0.017	3.547	0.098	0.06
5/27	0.213	0.015	0.079	0.174	0.246	0.237	0.017	2.415	0.069	0.046
5/28	0.201	0.015	0.055	0.12	0.168	0.236	0.017	1.625	0.051	0.036
5/29	0.207	0.015	0.04	0.085	0.116	0.252	0.017	1.095	0.039	0.03
5/30	0.225	0.015	0.029	0.062	0.082	0.282	0.017	0.74	0.032	0.026
5/31	0.26	0.015	0.022	0.046	0.06	0.273	0.017	0.503	0.027	0.024
6/1	0.289	0.015	0.017	0.036	0.046	0.261	0.017	0.343	0.024	0.022
6/2	0.355	0.015	0.013	0.03	0.037	0.264	0.018	0.236	0.022	0.021
6/3	0.422	0.015	0.011	0.025	0.031	0.192	0.018	0.165	0.021	0.019
6/4	0.47	0.015	0.009	0.022	0.027	0.141	0.018	0.117	0.02	0.019
6/5	0.506	0.014	0.008	0.021	0.019	0.105	0.018	0.085	0.019	0.019
6/6	0.556	0.014	0.008	0.019	0.019	0.08	0.018	0.063	0.019	0.019
6/7	0.48	0.014	0.007	0.018	0.019	0.062	0.018	0.049	0.019	0.019
6/8	0.347	0.014	0.007	0.018	0.019	0.05	0.018	0.039	0.018	0.019
6/9	0.253	0.014	0.006	0.017	0.019	0.041	0.019	0.032	0.018	0.019
6/10	0.186	0.014	0.006	0.017	0.019	0.035	0.019	0.028	0.018	0.019
6/11	0.138	0.014	0.006	0.017	0.019	0.03	0.019	0.025	0.018	0.019
6/12	0.104	0.014	0.006	0.017	0.019	0.027	0.019	0.023	0.018	0.019
6/13	0.08	0.014	0.005	0.027	0.019	0.025	0.019	0.019	0.018	0.019
6/14	0.063	0.014	0.005	0.553	0.019	0.024	0.019	0.019	0.018	0.019
6/15	0.051	0.013	0.005	0.724	0.019	0.023	0.019	0.019	0.018	0.019
6/16	0.042	0.013	0.005	0.538	0.019	0.022	0.019	0.019	0.018	0.019
6/17	0.036	0.013	0.005	0.401	0.019	0.022	0.019	0.019	0.018	0.018
6/18	0.031	0.013	0.005	0.301	0.019	0.021	0.019	0.019	0.018	0.018
6/19	0.028	0.013	0.005	0.226	0.019	0.021	0.019	0.019	0.018	0.018
6/20	0.026	0.012	0.004	0.172	0.019	0.021	0.019	0.019	0.018	0.018
6/21	0.024	0.012	0.004	0.131	0.019	0.021	0.019	0.019	0.018	0.018
6/22	0.023	0.012	0.004	0.101	0.019	0.021	0.019	0.018	0.018	0.017
6/23	0.022	0.011	0.004	0.079	0.019	0.02	0.019	0.018	0.017	0.017
6/24	0.022	0.011	0.004	0.063	0.019	0.02	0.019	0.018	0.017	0.017
6/25	0.021	0.011	0.003	0.79	0.019	0.02	0.019	0.018	0.017	0.017
6/26	0.021	0.011	0.003	2.267	0.019	0.02	0.019	0.018	0.017	0.016
6/27	0.021	0.01	0.003	1.675	0.019	0.02	0.018	0.018	0.017	0.016
6/28	0.02	0.01	0.003	1.239	0.019	0.02	0.018	0.018	0.016	0.016
6/29	0.02	0.01	0.003	0.918	0.018	0.02	0.018	0.018	0.016	0.016
6/30	0.02	0.01	0.003	0.682	0.018	0.02	0.018	0.018	0.016	0.015
7/1	0.02	0.009	0.003	0.507	0.018	0.019	0.018	0.018	0.015	0.015
7/2	0.019	0.009	0.003	0.379	0.018	0.019	0.018	0.018	0.015	0.015
7/3	0.019	0.009	0.003	0.284	0.018	0.019	0.017	0.017	0.015	0.014
7/4	0.019	0.009	0.003	0.212	0.018	0.019	0.017	0.017	0.014	0.014
7/5	0.019	0.009	0.003	0.174	0.018	0.019	0.017	0.017	0.014	0.014
7/6	0.019	0.008	0.003	0.139	0.017	0.019	0.017	0.017	0.014	0.013
7/7	0.018	0.008	0.003	0.112	0.017	0.018	0.016	0.017	0.013	0.013

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.018	0.008	0.003	0.091	0.017	0.018	0.016	0.017	0.013	0.013
7/9	0.018	0.008	0.003	0.075	0.017	0.018	0.016	0.017	0.013	0.012
7/10	0.018	0.008	0.003	0.137	0.017	0.018	0.016	0.017	0.012	0.012
7/11	0.018	0.007	0.003	0.112	0.017	0.017	0.016	0.016	0.012	0.012
7/12	0.018	0.007	0.003	0.091	0.016	0.017	0.015	0.016	0.012	0.012
7/13	0.017	0.007	0.003	0.074	0.016	0.017	0.015	0.016	0.011	0.012
7/14	0.018	0.007	0.003	0.062	0.016	0.016	0.015	0.117	0.011	0.011
7/15	0.028	0.006	0.003	0.052	0.015	0.016	0.015	0.302	0.011	0.011
7/16	0.025	0.006	0.003	0.049	0.015	0.016	0.015	0.239	0.011	0.011
7/17	0.023	0.005	0.003	0.045	0.015	0.015	0.015	0.19	0.216	0.011
7/18	0.022	0.005	0.003	0.039	0.014	0.015	0.015	0.152	0.261	0.011
7/19	0.02	0.005	0.002	0.034	0.014	0.015	0.015	0.122	0.204	0.011
7/20	0.017	0.005	0.002	0.031	0.014	0.014	0.015	0.099	0.16	0.01
7/21	0.016	0.005	0.002	0.028	0.013	0.014	0.015	0.081	0.126	0.01
7/22	0.016	0.005	0.002	0.026	0.034	0.014	0.015	0.067	0.1	0.01
7/23	0.016	0.005	0.002	0.024	0.013	0.014	0.015	0.055	0.079	0.01
7/24	0.016	0.004	0.002	0.023	0.013	0.013	0.014	0.047	0.063	0.009
7/25	0.016	0.004	0.002	0.022	0.013	0.013	0.014	0.04	0.051	0.009
7/26	0.016	0.004	0.002	0.021	0.013	0.013	0.014	0.035	0.011	0.009
7/27	0.016	0.004	0.002	0.02	0.013	0.013	0.014	0.031	0.011	0.008
7/28	0.016	0.004	0.002	0.02	0.013	0.013	0.014	0.027	0.011	0.008
7/29	0.015	0.004	0.002	0.019	0.013	0.013	0.014	0.025	0.011	0.008
7/30	0.015	0.004	0.002	0.019	0.013	0.013	0.014	0.023	0.011	0.008
7/31	0.015	0.004	0.002	0.019	0.013	0.013	0.013	0.016	0.011	0.008
8/1	0.015	0.004	0.002	0.019	0.013	0.013	0.013	0.016	0.011	0.008
8/2	0.015	0.004	0.002	0.019	0.013	0.013	0.013	0.016	0.011	0.008
8/3	0.014	0.004	0.002	0.02	0.012	0.013	0.013	0.016	0.011	0.058
8/4	0.014	0.004	0.002	0.02	0.012	0.013	0.013	0.015	0.011	0.145
8/5	0.014	0.004	0.002	0.02	0.012	0.013	0.014	0.015	0.011	0.144
8/6	0.014	0.004	0.002	0.02	0.012	0.012	0.014	0.015	0.01	0.116
8/7	0.014	0.084	0.002	0.02	0.011	0.012	0.014	0.015	0.01	0.093
8/8	0.014	0.004	0.002	0.02	0.011	0.012	0.014	0.015	0.01	0.076
8/9	0.013	0.003	0.002	0.02	0.011	0.012	0.014	0.015	0.01	0.062
8/10	0.013	0.003	0.002	0.02	0.011	0.012	0.014	0.015	0.01	0.051
8/11	0.013	0.003	0.002	0.019	0.01	0.012	0.014	0.015	0.01	0.042
8/12	0.013	0.003	0.002	0.019	0.01	0.012	0.014	0.015	0.01	0.035
8/13	0.013	0.003	0.002	0.019	0.01	0.012	0.014	0.015	0.009	0.029
8/14	0.013	0.003	0.001	0.019	0.01	0.011	0.014	0.014	0.009	0.008
8/15	0.013	0.003	0.001	0.019	0.009	0.011	0.014	0.014	0.009	0.008
8/16	0.013	0.003	0.001	0.146	0.009	0.011	0.014	0.014	0.009	0.008
8/17	0.013	0.003	0.001	0.282	0.009	0.011	0.014	0.014	0.009	0.008
8/18	0.014	0.003	0.001	0.228	0.009	0.011	0.014	0.014	0.009	0.008
8/19	0.014	0.003	0.001	0.186	0.009	0.011	0.013	0.013	0.008	0.008
8/20	0.014	0.003	0.001	0.152	0.073	0.01	0.013	0.013	0.008	0.008
8/21	0.014	0.003	0.001	0.02	0.106	0.01	0.013	0.013	0.008	0.007
8/22	0.014	0.003	0.001	0.021	0.087	0.01	0.013	0.013	0.008	0.007
8/23	0.014	0.003	0.001	0.021	0.072	0.01	0.013	0.012	0.008	0.007
8/24	0.015	0.003	0.001	0.021	0.06	0.01	0.013	0.012	0.008	0.007

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.015	0.003	0.001	0.021	0.05	0.01	0.013	0.012	0.008	0.007
8/26	0.015	0.003	0.001	0.021	0.042	0.01	0.013	0.012	0.008	0.007
8/27	0.015	0.003	0.001	0.022	0.036	0.01	0.013	0.011	0.008	0.007
8/28	0.015	0.002	0.001	0.022	0.031	0.009	0.013	0.011	0.008	0.007
8/29	0.015	0.002	0.001	0.022	0.027	0.009	0.012	0.011	0.008	0.007
8/30	0.015	0.002	0.001	0.022	0.023	0.009	0.012	0.011	0.008	0.006
8/31	0.015	0.002	0.001	0.022	0.02	0.009	0.012	0.011	0.008	0.006
9/1	0.015	0.002	0.001	0.022	0.018	0.009	0.012	0.011	0.008	0.006
9/2	0.015	0.002	0.001	0.021	0.016	0.009	0.012	0.011	0.008	0.006
9/3	0.015	0.002	0.000985	0.022	0.015	0.009	0.012	0.011	0.007	0.006
9/4	0.015	0.002	0.000965	0.022	0.014	0.008	0.012	0.011	0.007	0.006
9/5	0.015	0.002	0.000946	0.022	0.013	0.008	0.012	0.011	0.007	0.006
9/6	0.015	0.002	0.000926	0.022	0.012	0.008	0.011	0.011	0.007	0.006
9/7	0.015	0.002	0.000908	0.022	0.011	0.008	0.011	0.011	0.007	0.006
9/8	0.015	0.002	0.000889	0.022	0.011	0.007	0.011	0.011	0.007	0.005
9/9	0.015	0.002	0.000871	0.022	0.01	0.007	0.011	0.011	0.007	0.005
9/10	0.015	0.002	0.000853	0.022	0.01	0.007	0.011	0.011	0.007	0.005
9/11	0.015	0.002	0.000836	0.022	0.01	0.007	0.01	0.011	0.007	0.005
9/12	0.015	0.002	0.000819	0.022	0.009	0.007	0.01	0.011	0.006	0.005
9/13	0.015	0.002	0.000802	0.022	0.009	0.006	0.01	0.011	0.006	0.005
9/14	0.015	0.002	0.000786	0.022	0.009	0.006	0.01	0.011	0.006	0.005
9/15	0.015	0.002	0.00077	0.465	0.009	0.006	0.01	0.011	0.006	0.005
9/16	0.015	0.002	0.000754	1.291	0.009	0.006	0.01	0.011	0.006	0.005
9/17	0.015	0.002	0.000739	1.078	0.009	0.006	0.01	0.011	0.006	0.005
9/18	0.015	0.002	0.000724	0.834	0.009	0.005	0.01	0.01	0.006	0.004
9/19	0.015	0.002	0.000709	0.647	0.009	0.005	0.01	0.01	0.006	0.004
9/20	0.716	0.002	0.000693	0.503	0.008	0.005	0.01	0.01	0.006	0.004
9/21	0.881	0.002	0.000678	0.55	0.009	0.005	0.01	0.01	0.005	0.004
9/22	0.691	0.001	0.000665	0.772	0.081	0.005	0.01	0.01	0.005	0.004
9/23	0.542	0.001	0.000651	0.727	0.392	0.005	0.15	0.01	0.005	0.004
9/24	0.427	0.001	0.000638	1.381	0.307	0.005	0.296	0.01	0.005	0.004
9/25	0.336	0.001	0.000625	1.073	0.241	0.005	0.528	0.01	0.005	0.004
9/26	0.266	0.001	0.000612	0.831	0.561	0.005	0.749	0.009	1.097	0.004
9/27	0.211	0.001	0.0006	0.645	2.822	0.005	0.589	0.009	2.559	0.004
9/28	0.168	0.001	0.000588	0.502	2.429	0.005	0.533	0.009	1.987	0.004
9/29	0.135	0.001	0.000576	0.392	1.888	0.005	0.807	0.009	1.898	0.004
9/30	0.107	0.001	0.000564	0.307	1.468	0.005	1.139	0.009	2.606	0.004
10/1	0.132	0.001	0.000552	0.242	1.142	0.004	0.982	0.009	2.113	0.004
10/2	0.113	0.001	0.000541	0.192	0.889	0.004	1.536	0.009	2.033	0.005
10/3	0.091	0.001	0.00053	0.153	0.662	0.004	1.838	0.008	1.573	0.005
10/4	0.074	0.001	0.000519	0.124	0.506	0.004	1.893	0.008	1.217	0.027
10/5	0.087	0.001	0.000509	0.101	0.378	0.004	2.443	0.008	0.942	0.777
10/6	0.084	0.001	0.000499	0.083	1.031	0.004	2.533	0.008	0.008	0.619
10/7	0.067	0.001	0.000488	0.07	2.123	0.004	1.948	0.008	0.009	0.462
10/8	0.055	0.001	0.000478	0.026	1.995	0.004	1.479	0.008	0.009	0.346
10/9	0.045	0.001	0.000469	0.026	1.493	0.004	1.124	0.008	0.009	0.259
10/10	0.064	0.001	0.000459	0.026	1.111	0.004	0.855	0.008	0.009	0.195
10/11	0.063	0.001	0.00045	0.026	0.828	0.004	0.651	0.008	0.009	0.154

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.051	0.000984	0.000441	0.026	0.617	0.004	0.497	0.008	0.009	0.705
10/13	0.043	0.000964	0.000432	0.026	0.487	0.004	0.381	0.007	0.009	1.115
10/14	0.036	0.000944	0.000425	0.026	0.394	0.004	0.292	0.007	0.009	0.929
10/15	0.032	0.000925	0.000417	0.026	1.322	0.004	0.48	0.007	0.009	0.694
10/16	0.028	0.000906	0.000408	0.026	1.007	0.004	0.718	0.007	0.009	0.519
10/17	0.025	0.000888	0.0004	0.026	1.695	0.004	0.533	0.007	0.009	0.418
10/18	0.023	0.00087	0.000392	0.025	2.751	0.004	0.388	0.331	0.009	1.14
10/19	0.022	0.000851	0.000384	0.025	2.044	0.004	0.284	0.496	0.009	0.94
10/20	0.021	0.000834	0.000376	0.025	1.52	0.004	0.208	0.362	0.009	0.717
10/21	0.02	0.000817	0.000368	0.025	1.132	0.004	0.154	0.265	0.009	0.536
10/22	0.019	0.0008	0.000361	0.025	0.843	0.004	0.116	0.195	0.009	0.408
10/23	0.019	0.000784	0.007	0.025	0.63	0.004	0.088	0.143	0.009	0.812
10/24	0.018	0.000768	0.432	0.025	0.501	0.004	0.068	0.106	0.009	0.861
10/25	0.018	0.000752	0.394	0.025	1.226	0.004	0.054	0.079	0.008	0.912
10/26	0.018	0.000737	0.285	0.025	1.62	0.004	0.043	0.06	0.008	0.764
10/27	0.018	0.000722	0.205	0.025	1.735	0.004	0.036	0.046	0.008	0.545
10/28	0.097	0.000707	0.148	0.025	1.431	0.004	0.031	0.036	0.008	0.752
10/29	0.371	0.000693	0.107	0.024	1.018	0.004	0.027	0.028	0.008	1.556
10/30	0.45	0.000679	0.077	0.024	0.726	0.004	0.024	0.073	0.008	1.223
10/31	0.325	0.000665	0.056	0.024	0.519	0.004	0.022	0.221	0.008	0.871
11/1	0.352	0.000651	0.04	0.024	0.373	0.004	0.021	0.163	0.008	0.621
11/2	0.596	0.000638	0.029	0.024	0.401	0.004	0.03	0.598	0.008	0.444
11/3	0.961	0.000625	1.65	0.024	0.964	0.004	0.716	1.507	0.008	0.318
11/4	0.929	0.000612	2.453	0.024	0.687	0.005	1.215	1.076	0.008	0.229
11/5	0.86	0.0006	2.677	0.024	0.492	0.251	1.352	1.461	0.008	0.166
11/6	0.792	0.000588	2.061	0.023	0.354	0.649	1.124	1.203	0.008	0.121
11/7	0.57	0.000576	1.439	0.023	0.256	0.8	0.812	0.842	0.008	0.089
11/8	0.41	0.000564	1.017	0.023	0.187	0.574	0.588	0.591	0.008	0.069
11/9	0.297	0.000553	0.708	0.023	0.294	0.411	0.427	0.415	0.008	0.056
11/10	0.216	0.000541	0.493	0.023	0.233	0.328	0.299	0.434	0.008	0.043
11/11	0.159	0.00053	0.343	0.023	0.171	0.75	0.227	0.507	0.008	0.156
11/12	0.118	0.000524	0.239	0.023	0.126	0.742	0.243	0.36	0.008	0.277
11/13	0.089	0.000514	0.166	0.023	0.095	0.531	0.174	0.254	0.008	0.2
11/14	0.069	0.000503	0.116	0.023	0.073	0.38	0.126	0.18	0.008	0.145
11/15	0.054	0.000493	0.081	0.023	0.057	0.258	0.109	0.129	0.008	0.106
11/16	0.044	0.000483	0.056	0.023	0.046	0.185	0.266	0.093	0.801	0.72
11/17	0.035	0.132	0.039	0.023	0.038	0.129	0.234	0.068	2.072	1.53
11/18	0.03	0.116	0.028	0.141	0.033	0.09	0.198	0.051	1.637	1.029
11/19	0.026	0.08	0.019	0.153	0.029	0.064	0.373	0.038	1.156	0.737
11/20	0.024	0.067	0.014	0.114	0.357	0.135	0.722	0.03	1.141	0.507
11/21	0.022	0.434	0.011	0.087	0.389	0.188	0.506	0.024	0.91	0.35
11/22	0.021	0.377	0.013	0.068	0.282	0.131	0.356	0.02	0.808	0.243
11/23	0.179	0.26	0.009	0.054	0.198	0.092	0.252	0.017	0.624	0.17
11/24	0.181	0.18	0.114	0.045	0.141	0.065	0.191	0.015	0.429	0.12
11/25	0.13	0.124	0.2	0.037	0.178	0.046	0.337	0.014	0.293	0.086
11/26	0.183	0.702	0.249	0.033	0.269	0.034	0.24	0.013	0.201	0.063
11/27	1.573	0.833	0.915	0.073	0.252	0.025	0.172	0.013	0.139	0.047
11/28	1.286	0.641	0.699	0.738	0.517	0.019	0.178	0.042	0.65	0.036
11/29	0.887	0.442	0.487	1.761	0.483	0.015	1.001	0.263	2.13	0.029
11/30	0.626	0.305	0.339	2.021	1.088	0.012	0.813	0.185	2.206	0.06
12/1	0.564	0.91	0.225	1.447	1.628	0.01	0.687	0.653	1.505	0.887
12/2	0.392	0.955	0.154	0.981	1.114	0.009	0.529	1.05	1.021	1.746
12/3	0.274	0.659	0.829	0.667	0.765	0.008	0.372	0.804	0.694	1.221
12/4	0.454	0.455	1.4	0.456	0.527	0.008	0.25	0.565	0.473	0.838
12/5	0.426	0.314	1.254	0.314	0.381	0.007	0.178	0.667	0.323	0.577
12/6	0.298	0.204	1.485	0.218	0.358	0.007	0.124	0.477	0.222	0.398
12/7	0.21	1.824	1.113	0.154	0.25	0.007	0.089	0.326	0.153	0.276
12/8	0.176	1.916	0.741	0.111	0.177	0.007	0.066	1.832	0.107	0.193
12/9	0.365	1.262	0.493	0.082	0.127	0.007	0.05	2.21	0.076	0.136
12/10	0.301	0.831	0.333	0.062	0.093	0.007	0.087	1.595	0.055	0.097
12/11	0.206	0.547	0.546	0.049	0.07	0.006	1.016	1.243	0.04	0.071
12/12	0.142	0.361	0.38	0.04	0.055	0.006	1.075	0.864	0.031	0.053
12/13	0.099	0.238	0.253	0.035	0.107	0.006	0.774	0.582	0.024	0.778
12/14	0.072	0.157	0.169	0.031	0.286	0.006	0.519	0.393	0.02	1.286
12/15	0.053	0.103	0.259	0.028	0.197	0.007	0.35	0.266	0.017	0.966
12/16	0.042	0.068	0.607	0.026	0.135	0.303	0.239	0.182	0.015	0.794
12/17	0.034	0.045	0.914	0.902	0.139	0.255	0.444	0.126	0.013	0.544
12/18	0.18	0.03	0.648	0.884	0.661	0.169	0.36	0.088	0.013	0.403
12/19	0.343	0.02	0.431	0.022	1.093	0.375	0.245	0.063	0.012	0.27
12/20	0.26	0.013	0.299	0.022	1.636	1.228	0.169	0.046	0.012	0.181
12/21	0.213	0.009	0.825	0.022	1.193	1.122	0.119	0.035	0.011	0.122
12/22	0.158	0.008	0.63	0.022	0.779	0.75	0.086	0.027	0.011	0.149
12/23	0.11	0.007	0.42	0.022	0.523	0.493	0.064	0.022	0.011	0.314
12/24	0.079	0.004	0.28	0.022	0.973	0.325	0.244	0.018	0.011	0.248
12/25	0.168	0.003	0.177	0.022	0.703	0.215	0.271	0.016	0.011	0.169
12/26	0.463	0.002	0.12	0.022	0.462	0.143	0.206	0.015	0.226	0.115
12/27	0.341	0.002	0.078	0.022	0.306	0.096	0.143	0.014	0.343	0.242
12/28	0.229	0.001	0.051	0.022	0.205	0.065	0.141	0.013	0.247	0.336
12/29	0.156	0.000988	0.034	0.022	0.14	0.045	2.077	0.013	0.932	0.433
12/30	0.109	0.000669	0.022	0.022	0.098	0.032	4.567	0.013	0.723	0.303
12/31	0.078	0.000699	0.015	0.022	0.071	0.465	3.333	0.311	0.471	0.202

Table AE.4: Daily Average Streamflow for 10 years for Kerry Creek.

Day	Kerry Creek Average Daily Streamflow (cms)									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1/1	0.356	0.285	0.461	6.90E-04	0.00E+00	0.046	0.291	0.459	0.029	1.265
1/2	0.335	0.267	0.437	6.69E-04	0	0.092	0.272	0.432	0.029	3.514
1/3	0.328	0.261	0.429	1.80E-02	0	0.411	0.266	0.424	0.03	5.658
1/4	0.323	0.255	1.72	1.32E-01	0	0.313	0.261	0.418	0.03	2.318
1/5	0.318	0.25	4.132	1.33E+00	0	0.84	0.256	0.411	0.031	0.869
1/6	0.313	0.245	1.938	3.59E+00	0	0.231	0.251	0.405	0.031	0.519
1/7	0.308	0.24	0.788	8.95E-01	0	0.092	0.246	0.398	0.032	0.43
1/8	0.303	0.236	0.512	2.23E-01	0	0.058	0.242	0.392	0.032	0.407
1/9	0.297	0.231	0.441	5.70E-02	0	0.06	0.237	0.385	0.032	0.4
1/10	0.292	0.227	0.421	1.60E-02	0	0.84	0.232	0.379	0.032	0.396
1/11	0.287	0.222	0.413	5.00E-03	0	1.103	0.228	0.373	0.032	0.393
1/12	0.282	0.218	0.409	2.00E-03	0	0.387	0.224	0.369	0.032	0.39
1/13	0.594	0.214	0.404	1.00E-03	0	0.143	0.219	0.365	0.032	0.386
1/14	2.905	0.21	0.4	1.00E-03	0	0.074	0.215	0.361	0.032	0.382
1/15	4.82	0.206	0.395	2.00E-03	0	0.054	0.211	0.357	0.032	0.378
1/16	2.101	0.202	0.391	2.00E-03	0	0.048	0.208	0.353	0.031	0.373
1/17	0.813	0.198	0.386	2.00E-03	0	0.046	0.204	0.348	0.031	0.369
1/18	0.434	1.419	0.38	2.00E-03	0	0.045	0.2	0.344	0.031	0.364
1/19	0.332	3.218	0.375	2.00E-03	0	0.045	0.197	0.339	0.031	0.359
1/20	1.381	1.039	0.37	3.00E-03	0	0.045	0.194	0.333	0.03	0.354
1/21	2.548	0.432	0.364	3.00E-03	0	0.046	0.19	0.329	0.03	0.349
1/22	0.908	0.262	0.485	3.00E-03	0	0.047	0.187	0.324	0.03	0.344
1/23	0.461	0.213	0.83	3.00E-03	0.149	0.048	0.183	0.325	0.029	0.339
1/24	0.332	0.23	0.495	3.00E-03	0.767	0.049	0.18	0.394	0.029	0.334
1/25	0.294	0.358	0.395	3.00E-03	0.22	0.05	0.177	0.336	0.029	0.329
1/26	0.282	0.239	0.362	3.00E-03	0.065	0.051	0.173	0.589	0.028	0.324
1/27	0.277	0.247	0.35	4.00E-03	0.02	0.051	0.17	1.545	0.028	0.318
1/28	0.274	0.21	0.343	4.00E-03	0.006	0.052	0.167	2.521	0.028	0.313
1/29	0.272	0.199	0.339	4.00E-03	0.002	0.052	0.164	1.899	0.027	0.308
1/30	0.27	0.195	0.335	4.00E-03	0.000443	0.052	0.161	0.781	0.027	0.303
1/31	0.268	0.194	0.331	4.00E-03	2.69E-05	0.052	0.158	0.451	0.026	0.298
2/1	0.266	0.193	0.327	4.00E-03	0	0.052	0.156	0.348	0.026	0.293
2/2	0.263	0.192	0.323	4.00E-03	0	0.052	0.153	0.315	0.026	0.288
2/3	0.261	0.191	0.319	4.00E-03	0	0.052	0.151	0.303	0.029	0.283
2/4	0.259	0.19	0.34	4.00E-03	0	0.052	0.148	0.298	0.374	0.279
2/5	0.256	0.189	0.751	4.00E-03	0	0.051	0.145	0.295	0.15	0.274
2/6	0.254	0.187	0.472	4.00E-03	0	0.051	0.143	0.292	0.062	0.269
2/7	0.251	0.185	0.355	4.00E-03	0	0.05	0.141	0.289	0.036	0.264
2/8	0.248	0.184	0.318	4.00E-03	0	0.05	0.138	0.286	0.025	0.26
2/9	0.245	0.182	0.304	5.00E-03	0	0.05	2.674	0.283	0.024	0.255
2/10	0.242	0.289	0.298	5.00E-03	0	0.049	5.339	0.28	0.024	0.251
2/11	0.239	0.574	0.293	5.00E-03	0	0.048	1.7	0.277	0.024	0.246
2/12	0.235	0.315	0.289	5.00E-03	0	0.048	0.628	0.274	0.024	0.242
2/13	0.232	0.223	0.286	5.00E-03	0	0.047	0.292	0.271	0.023	0.238
2/14	0.229	0.193	0.282	5.00E-03	0	0.047	0.183	0.268	0.023	0.233
2/15	0.226	0.183	0.278	5.00E-03	0	0.046	0.148	0.265	0.023	0.229
2/16	0.224	0.18	0.276	5.00E-03	0	0.046	0.136	0.264	0.023	0.226
2/17	0.222	0.179	0.275	2.20E-02	0	0.045	0.132	0.264	0.023	0.224
2/18	0.221	0.179	0.279	1.88E-01	0	0.045	0.131	0.263	0.023	0.222
2/19	0.233	0.18	0.541	7.50E-02	0	0.045	0.131	0.265	0.022	0.22
2/20	0.329	0.18	2.517	2.80E-02	0	0.044	0.131	4.194	0.022	0.218
2/21	0.257	0.246	9.567	1.30E-02	0	0.044	0.13	6.484	0.022	0.217
2/22	0.232	0.773	8.751	8.00E-03	0	0.044	0.13	3.184	0.022	0.215
2/23	0.224	1.544	3.133	6.00E-03	0	0.819	0.13	1.252	0.022	0.214
2/24	0.221	4.797	1.273	5.00E-03	0	2.626	0.13	0.706	0.022	0.213
2/25	0.22	6.581	0.631	5.00E-03	0	4.451	1.057	1.178	0.022	0.211
2/26	0.219	6.054	0.524	5.00E-03	0	1.605	2.807	1.988	0.022	0.21
2/27	0.219	6.133	1.809	5.00E-03	0	0.566	1.009	0.841	0.022	0.421
2/28	0.218	4.349	1.619	5.00E-03	0	0.228	0.432	0.468	0.021	1.661
2/29		1.565				0.116				5.404
3/1	0.218	0.664	1.926	0.005	0.00E+00	0.858	0.238	0.342	0.021	5.245
3/2	0.217	0.361	3.576	0.005	0	1.081	0.172	0.365	0.021	4.67
3/3	0.217	0.258	1.385	0.005	0	0.385	0.149	1.013	0.021	2.876
3/4	0.216	0.223	0.666	0.005	0	0.173	0.142	0.532	0.021	1.854
3/5	0.215	0.212	0.421	0.005	0	0.104	0.14	0.365	0.021	7.086
3/6	0.214	0.209	0.335	0.005	0	0.082	0.14	0.309	0.021	3.919
3/7	3.627	0.208	0.305	0.005	0	0.076	0.14	0.29	0.02	1.405
3/8	7.185	0.208	0.295	0.005	0	0.075	0.141	1.377	0.02	0.617
3/9	2.408	0.209	0.291	2.281	0	0.122	0.142	7.458	0.02	0.434
3/10	0.936	0.21	0.29	2.483	0	0.19	0.142	9.855	0.02	0.478
3/11	0.684	0.21	0.289	0.75	0	0.114	0.143	3.116	0.02	0.308
3/12	4.967	0.216	0.289	0.242	0	0.092	0.143	1.169	0.02	0.257
3/13	7.896	0.846	0.289	0.082	0	0.086	0.211	0.713	0.02	0.242
3/14	7.239	1.335	0.289	0.031	0	0.609	1.094	2.102	0.019	0.237
3/15	2.627	2.57	0.289	0.015	0	1.699	2.379	3.154	0.9	0.239
3/16	1.018	1.767	0.292	0.009	0	1.837	2.638	3.462	7.083	0.245
3/17	0.498	0.687	0.715	0.008	0	0.697	0.875	1.247	9.382	0.251
3/18	0.328	1.006	2.194	0.025	0	0.3	0.387	0.605	6.372	0.258
3/19	0.276	3.64	0.866	0.454	0	0.172	1.03	0.419	3.856	0.264
3/20	0.351	3.927	0.487	1.765	0	0.133	3.979	0.63	5.061	0.303
3/21	0.733	1.339	0.989	0.598	2.18E-09	0.125	4.942	1.04	5.589	0.408
3/22	0.291	0.602	2.121	0.195	6.74E-07	0.126	3.685	0.554	4.642	0.326
3/23	0.276	0.386	0.862	0.071	0.072	0.13	1.815	0.421	2.4	0.308
3/24	0.285	0.326	0.512	0.033	0.484	0.134	0.956	0.387	2.215	0.937
3/25	0.294	2.347	1.228	0.053	0.142	0.139	0.445	0.383	1.252	6.641
3/26	0.301	4.864	7.433	0.079	0.045	0.144	0.304	0.388	0.499	5.714
3/27	0.309	1.643	7.63	0.036	0.015	1.432	0.268	0.395	0.216	3.426
3/28	0.315	0.739	11.143	0.024	0.005	1.658	0.263	0.575	0.135	1.289
3/29	0.321	0.614	12.591	0.021	0.002	1.314	0.268	0.882	1.469	0.662
3/30	0.326	3.255	10.96	0.021	0.000706	0.51	0.276	2.05	1.144	2.006
3/31	0.33	6.585	5.172	0.021	0.000391	0.284	0.286	3.904	0.441	2.074
4/1	0.333	3.549	1.887	0.021	0.000421	0.218	0.295	3.278	0.287	0.913
4/2	0.335	1.342	3.671	0.022	0.000484	0.201	0.303	1.726	0.256	0.582

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
4/3	0.338	0.713	9.71	0.023	0.000544	0.198	0.31	1.203	0.227	0.487
4/4	0.341	0.53	10.887	0.023	0.000598	0.417	0.329	0.816	0.239	0.464
4/5	0.345	0.48	5.136	0.024	0.00065	0.539	1.517	0.627	0.206	0.461
4/6	0.348	0.47	2.125	0.024	0.000701	0.31	6.546	0.578	0.204	0.464
4/7	0.352	0.473	1.149	0.024	0.00075	0.254	12.546	0.577	0.208	0.468
4/8	0.356	0.478	0.781	0.024	0.000791	0.246	16.24	4.387	0.215	0.473
4/9	0.361	0.485	0.666	0.024	0.000825	0.24	12.826	12.298	0.281	0.477
4/10	0.364	0.505	0.634	0.023	0.000847	0.242	8.716	6.57	0.403	0.478
4/11	0.365	0.518	0.629	0.023	1.275	0.246	11.275	2.535	0.299	0.478
4/12	0.365	1.681	0.634	0.022	2.273	0.251	14.215	1.511	0.272	0.475
4/13	0.369	5.648	0.641	0.022	0.712	0.256	6.376	1.769	0.268	0.471
4/14	0.375	4.065	0.65	0.021	0.226	0.264	2.473	1.019	0.268	0.469
4/15	0.382	2.263	0.655	0.02	0.074	0.268	1.206	0.796	0.268	0.461
4/16	0.382	2.685	0.653	0.02	0.025	0.267	0.847	0.725	0.265	0.449
4/17	0.378	1.328	0.647	0.019	0.009	0.264	0.978	0.699	0.258	0.438
4/18	0.396	0.88	0.64	0.018	0.002	0.259	0.715	0.686	0.251	3.662
4/19	0.414	0.734	0.63	0.017	0.002	0.251	0.635	1.501	0.246	3.028
4/20	0.39	0.689	0.617	0.016	0.002	0.612	0.607	1.076	0.242	1.283
4/21	2.463	0.681	0.603	0.015	0.002	2.058	0.596	0.806	0.238	0.796
4/22	2.351	0.829	0.591	0.014	0.003	0.848	0.596	0.721	0.236	0.593
4/23	1.06	0.874	0.579	0.013	0.003	0.47	0.598	0.691	0.234	0.476
4/24	0.642	0.749	0.566	0.013	0.003	0.34	0.594	0.675	0.23	0.431
4/25	0.494	0.716	0.552	0.012	0.003	0.29	0.586	0.662	0.222	0.409
4/26	0.438	0.769	0.539	0.011	0.003	0.266	0.574	0.652	0.213	0.399
4/27	0.431	0.722	0.525	0.01	0.003	0.252	0.564	0.642	0.204	0.396
4/28	0.446	0.706	0.513	0.009	0.003	0.241	0.558	0.633	0.195	0.391
4/29	0.454	0.698	0.501	0.009	0.003	0.231	0.55	0.642	0.186	0.382
4/30	0.452	0.71	0.488	0.009	0.003	0.223	0.537	0.652	0.177	0.371
5/1	0.444	0.708	0.475	0.008	0.003	0.214	0.525	0.651	0.397	0.361
5/2	0.433	0.703	0.463	0.008	0.003	0.207	0.512	0.645	1.299	0.383
5/3	0.42	0.7	0.611	0.008	0.003	0.199	0.498	0.646	0.65	0.428
5/4	0.408	0.698	0.625	0.008	0.002	0.191	0.485	0.641	0.383	0.432
5/5	0.396	0.695	0.536	0.007	0.002	0.183	0.472	0.63	0.294	0.438
5/6	0.384	0.69	0.511	0.007	0.002	0.174	0.46	0.615	0.275	0.444
5/7	0.372	0.68	0.501	0.007	0.002	0.166	0.446	0.604	0.278	0.44
5/8	0.36	0.666	0.49	0.007	0.002	0.158	0.435	0.595	0.275	0.433
5/9	0.349	0.657	0.481	0.006	0.002	0.151	0.425	0.584	0.267	0.445
5/10	0.34	0.662	0.488	0.006	0.002	0.147	0.413	0.592	0.257	0.467
5/11	0.333	0.68	0.504	0.006	0.002	0.154	0.402	0.593	0.302	0.479
5/12	0.328	0.686	0.508	0.006	0.002	0.604	0.402	0.588	0.511	0.479
5/13	0.319	0.68	0.505	0.006	0.002	5.584	0.4	0.601	0.534	0.47
5/14	0.308	0.668	0.496	0.006	0.002	1.657	0.391	0.616	0.447	0.457
5/15	0.297	0.653	0.486	0.005	0.002	0.617	0.378	0.618	0.399	0.448
5/16	0.285	0.637	0.491	0.005	0.002	0.328	0.366	1.035	0.393	0.441
5/17	0.276	0.621	0.506	0.005	0.002	0.25	0.353	0.906	0.388	0.43
5/18	0.274	0.604	0.512	0.005	0.002	4.491	0.34	0.742	0.38	0.419
5/19	0.269	0.588	0.507	0.005	0.002	2.371	0.328	0.683	0.368	0.41
5/20	0.259	0.744	0.499	0.005	0.001	0.905	0.316	0.646	0.356	0.398

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
5/21	0.25	3.539	0.487	0.004	0.001	0.513	0.304	0.631	0.351	0.385
5/22	0.24	1.541	0.473	0.004	0.001	0.395	0.294	0.616	0.345	1.326
5/23	0.229	0.932	0.459	0.004	0.001	0.353	0.297	0.601	0.335	4.48
5/24	0.22	0.758	0.444	0.004	0.001	0.354	0.302	0.586	0.338	3.972
5/25	0.212	0.704	0.431	0.004	0.001	0.362	0.302	0.571	0.374	1.555
5/26	0.204	0.679	0.418	0.004	0.001	0.365	0.315	0.558	0.386	0.837
5/27	0.194	0.659	0.405	0.004	0.001	0.358	0.325	0.543	0.382	0.638
5/28	0.184	0.642	0.391	0.004	0.001	0.346	0.327	0.527	0.381	0.575
5/29	0.176	0.625	0.378	0.003	0.001	0.334	0.329	0.512	0.378	0.548
5/30	0.169	0.608	0.366	0.003	0.001	0.323	0.325	0.496	0.368	0.529
5/31	0.162	0.591	0.355	0.003	0.001	0.312	0.315	0.482	0.356	0.513
6/1	0.152	0.575	0.343	0.003	0.001	0.3	0.303	0.47	0.346	0.5
6/2	0.233	0.558	0.33	0.003	0.000997	0.29	0.293	0.456	0.334	0.488
6/3	6.988	0.544	0.317	0.003	0.000967	0.28	0.283	0.443	0.321	0.473
6/4	2.713	0.529	0.303	0.003	0.000937	0.27	0.274	0.429	0.308	0.458
6/5	1.081	0.515	0.288	0.003	0.0009	0.259	0.264	0.417	0.304	0.443
6/6	0.54	0.501	0.274	0.003	0.000873	0.248	0.252	0.404	0.307	0.429
6/7	0.347	0.491	0.258	0.003	0.000847	0.238	0.24	0.39	0.303	0.414
6/8	0.273	0.499	0.241	0.003	0.000821	0.227	0.229	0.376	0.293	0.4
6/9	0.24	0.507	0.227	0.002	0.000795	0.217	0.217	0.362	0.302	0.387
6/10	0.221	0.5	0.216	0.002	0.000771	0.209	0.207	0.348	0.317	0.375
6/11	0.207	0.487	0.201	0.002	0.000747	0.2	0.201	0.335	0.315	0.364
6/12	0.195	0.483	0.182	0.002	0.000724	0.193	0.201	0.325	0.307	0.351
6/13	0.183	0.488	0.166	0.002	0.000702	0.882	0.195	0.318	0.299	0.338
6/14	0.172	0.482	0.149	0.002	0.00068	1.107	0.185	0.308	0.294	0.325
6/15	0.162	0.468	0.134	0.002	0.000659	0.602	0.173	0.298	0.286	0.317
6/16	0.151	0.453	0.119	0.002	0.000639	0.451	0.164	0.299	0.273	0.307
6/17	0.14	0.438	0.107	0.002	0.000619	0.389	0.161	0.318	0.261	0.294
6/18	0.128	0.428	0.098	0.002	0.0006	0.359	0.167	0.322	0.248	0.282
6/19	0.115	0.436	0.087	0.002	0.000582	0.342	0.164	0.313	0.245	0.27
6/20	0.103	0.444	0.074	0.002	0.000564	0.327	0.155	0.3	0.253	0.259
6/21	0.089	0.443	0.074	0.002	0.000547	0.316	0.147	0.288	0.248	0.247
6/22	0.073	0.442	0.126	0.002	0.00053	0.316	0.173	0.278	0.236	0.243
6/23	0.057	0.462	0.122	0.002	0.000513	0.31	0.219	0.275	0.224	0.255
6/24	0.066	0.469	0.112	0.002	0.000498	0.298	0.227	0.268	0.212	0.259
6/25	0.893	0.498	0.101	0.001	0.000482	5.871	0.218	0.256	0.2	0.272
6/26	0.276	0.505	0.09	0.001	0.000468	3.786	0.205	0.244	0.188	0.275
6/27	0.166	0.494	0.08	0.001	0.000453	1.78	0.193	0.238	0.178	0.265
6/28	0.191	0.478	0.071	0.001	0.000439	0.987	0.181	0.238	0.168	0.254
6/29	0.204	0.462	0.062	0.001	0.000415	0.653	0.169	0.234	0.156	0.244
6/30	0.208	0.448	0.053	0.001	0.000403	0.514	0.157	0.223	0.145	0.232
7/1	0.208	0.433	0.046	0.001	0.00039	0.446	0.148	0.211	0.133	0.22
7/2	0.202	0.418	0.044	0.001	0.000378	0.407	0.143	0.198	0.123	0.207
7/3	0.191	0.405	0.041	0.001	0.000367	0.383	0.135	0.186	0.113	0.195
7/4	0.179	0.391	0.039	0.001	0.000356	0.366	0.126	0.174	0.102	0.183
7/5	0.167	0.375	0.037	0.001	0.000345	0.35	0.116	0.162	0.091	0.174
7/6	0.156	0.36	0.035	0.001	0.000334	0.334	0.104	0.151	0.082	0.164
7/7	0.147	0.345	0.033	0.001	0.000324	0.319	0.094	0.141	0.073	0.154

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
7/8	0.143	0.331	0.031	0.000999	0.000314	0.305	0.086	0.132	0.068	0.15
7/9	0.142	0.321	0.029	0.000968	0.000304	0.293	0.077	0.123	0.061	0.143
7/10	0.138	0.313	0.027	0.000938	0.000295	0.296	0.068	0.115	0.052	0.132
7/11	0.127	0.301	0.025	0.000909	0.000286	0.294	0.058	0.106	0.046	0.121
7/12	0.116	0.287	0.023	0.000881	0.000277	0.283	0.047	0.094	0.043	0.111
7/13	0.104	0.273	0.021	0.000854	0.000268	0.27	0.038	0.082	0.041	0.1
7/14	0.102	0.259	0.019	0.000828	0.00026	0.26	0.031	0.07	0.034	1.438
7/15	0.103	0.248	0.017	0.000802	0.000252	0.262	0.026	0.056	0.027	0.814
7/16	0.095	0.242	0.017	0.000778	0.000244	0.26	0.023	0.044	0.024	0.431
7/17	0.086	0.233	0.016	0.000754	0.000237	0.251	0.02	0.038	0.023	0.275
7/18	0.079	0.221	0.015	0.000731	0.00023	0.246	0.016	0.034	0.022	0.203
7/19	0.074	0.21	0.013	0.000708	0.000222	0.241	0.014	0.031	0.02	0.176
7/20	0.068	0.203	0.011	0.000686	0.000216	0.232	0.013	0.028	0.018	0.155
7/21	0.084	0.191	0.01	0.000665	0.000209	0.223	0.669	0.024	0.016	0.147
7/22	0.086	0.18	0.009	0.000645	0.000203	0.215	1.612	0.02	0.014	0.136
7/23	0.083	0.17	0.009	0.000625	0.000198	0.205	0.693	0.017	0.012	0.125
7/24	0.103	0.162	0.009	0.000606	0.000192	0.195	0.318	0.015	0.011	0.114
7/25	0.111	0.152	0.008	0.000587	0.000186	0.184	0.152	0.013	0.01	0.103
7/26	0.104	0.142	0.008	0.000569	0.00018	0.174	0.076	0.012	0.009	0.092
7/27	0.094	0.134	0.008	0.000552	0.000175	0.164	0.041	0.012	0.009	0.082
7/28	0.083	0.125	0.008	0.000535	0.000169	0.155	0.024	0.012	0.009	0.075
7/29	0.076	0.115	0.007	0.000519	0.000164	0.155	0.016	0.011	0.009	0.069
7/30	0.069	0.11	0.007	0.000503	0.000159	0.166	0.013	0.011	0.008	0.06
7/31	0.058	0.107	0.007	0.000488	0.000154	0.168	0.011	0.011	0.008	0.051
8/1	0.049	0.103	0.007	0.000473	0.000149	0.571	0.009	0.01	0.008	0.044
8/2	0.04	0.095	0.006	0.000458	0.000145	0.792	0.009	0.01	0.008	0.038
8/3	0.031	0.085	0.006	0.000444	0.00014	0.502	0.008	0.01	0.094	0.035
8/4	0.036	0.076	0.006	0.000431	0.000136	0.366	0.008	0.009	0.161	0.033
8/5	0.062	0.066	0.006	0.000417	0.000132	0.296	0.008	0.009	0.08	0.032
8/6	0.115	0.057	0.006	0.000405	0.000128	0.257	0.008	0.009	0.044	0.03
8/7	0.144	0.049	0.006	0.000392	0.000124	0.235	0.007	0.009	0.027	0.027
8/8	0.144	0.045	0.005	0.00038	0.00012	0.22	0.007	0.008	0.018	0.025
8/9	0.134	0.044	0.005	0.000368	0.000116	0.209	0.007	0.008	0.012	0.023
8/10	0.123	0.042	0.005	0.000357	0.000113	0.199	0.007	0.008	0.009	0.021
8/11	1.04	0.04	0.005	0.000346	0.000109	0.188	0.006	0.008	0.007	0.019
8/12	0.889	0.038	0.005	0.000335	0.000106	0.177	0.006	0.007	0.006	0.018
8/13	0.256	0.035	0.005	0.000325	0.000103	0.167	0.006	0.007	0.006	0.016
8/14	0.234	0.032	0.004	0.000315	9.95E-05	0.156	0.006	0.007	0.005	0.015
8/15	0.246	0.029	0.004	0.000305	9.65E-05	0.147	0.006	0.007	0.005	0.013
8/16	0.251	0.026	0.004	0.000296	9.89E-05	0.161	0.006	0.006	0.005	0.011
8/17	0.243	0.023	0.004	0.000287	9.59E-05	0.228	0.005	0.006	0.005	0.008
8/18	0.233	0.019	0.004	0.000278	0.000093	0.292	0.005	0.006	0.005	0.007
8/19	0.223	0.016	0.004	0.00027	9.01E-05	0.301	0.308	0.006	0.005	0.007
8/20	0.212	0.012	0.004	0.000261	8.73E-05	0.294	1.435	0.006	0.004	0.007
8/21	0.2	0.009	0.004	0.000257	8.47E-05	0.282	0.674	0.006	0.004	0.007
8/22	0.188	0.009	0.003	0.00025	8.21E-05	0.269	0.321	0.005	0.004	0.006
8/23	0.177	0.008	0.003	0.000242	7.95E-05	0.273	0.158	0.005	0.004	0.006
8/24	0.165	0.008	0.003	0.000235	7.71E-05	0.303	0.08	0.005	0.004	0.006

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
8/25	0.154	0.008	0.003	0.000228	7.47E-05	0.306	0.042	0.005	0.004	0.006
8/26	0.143	0.008	0.003	0.000221	7.24E-05	0.296	0.023	0.005	0.004	0.006
8/27	0.132	0.809	0.003	0.000214	7.02E-05	0.285	0.014	0.005	0.004	0.006
8/28	0.121	0.626	0.003	0.000207	0.000068	0.275	0.01	0.004	0.003	0.005
8/29	0.111	0.296	0.003	0.000201	6.59E-05	0.262	0.008	0.004	0.003	0.005
8/30	0.099	0.148	0.003	0.000195	6.39E-05	0.249	0.006	0.004	0.003	0.005
8/31	0.089	0.073	0.003	0.000189	6.19E-05	0.236	0.005	0.004	0.003	0.005
9/1	0.082	0.038	0.003	0.000183	0.00006	0.224	0.005	0.004	0.003	0.005
9/2	0.071	0.021	0.002	0.000177	5.82E-05	0.214	0.004	0.004	0.003	0.005
9/3	0.059	0.013	0.002	0.000172	5.64E-05	0.237	0.004	0.004	0.003	0.004
9/4	0.049	0.009	0.002	0.000167	5.47E-05	0.25	0.004	0.004	0.003	0.004
9/5	0.038	0.007	0.002	0.000161	0.000053	0.245	0.004	0.003	0.003	0.004
9/6	0.027	0.006	0.002	0.000156	5.13E-05	0.234	0.004	0.003	0.003	0.004
9/7	0.02	0.018	0.002	0.000152	4.98E-05	0.222	0.004	0.003	0.002	0.179
9/8	0.015	0.249	0.002	0.000147	4.82E-05	0.211	0.004	0.003	0.002	0.147
9/9	0.013	0.156	0.002	0.000142	4.95E-05	0.199	0.004	0.003	0.002	0.065
9/10	0.011	0.117	0.002	0.000138	0.000048	0.188	0.003	0.003	0.002	0.031
9/11	0.01	0.104	0.002	0.000134	4.65E-05	0.178	0.003	0.003	0.002	0.016
9/12	0.008	0.099	0.002	0.00013	4.51E-05	0.17	0.003	0.003	0.002	0.009
9/13	0.007	0.123	0.002	0.000126	4.37E-05	0.164	0.003	0.003	0.002	0.006
9/14	0.006	6.042	0.002	0.000119	4.23E-05	0.161	0.003	0.003	0.002	0.005
9/15	0.006	6.824	0.002	0.000115	0.000041	1.089	0.003	0.003	0.002	0.004
9/16	0.006	3.368	0.002	0.000112	3.98E-05	1.216	0.003	0.002	0.002	0.003
9/17	0.006	1.806	0.002	0.000108	3.85E-05	0.797	0.003	0.002	0.002	0.003
9/18	0.006	1.096	0.002	0.000105	3.74E-05	0.611	0.003	0.002	0.002	0.003
9/19	0.005	0.756	0.001	0.000102	3.62E-05	0.514	0.003	0.002	0.012	0.003
9/20	0.005	0.588	0.001	9.84E-05	3.51E-05	0.459	0.003	0.002	0.026	0.003
9/21	0.005	0.5	0.001	9.54E-05	0.000034	0.444	0.007	0.002	0.012	0.003
9/22	0.005	0.449	0.001	9.25E-05	0.000033	0.479	0.054	0.002	0.043	0.003
9/23	0.005	0.417	0.001	8.96E-05	0.000032	0.532	0.025	0.002	0.172	0.003
9/24	0.005	0.39	0.001	8.69E-05	0.000031	0.574	0.012	0.002	0.072	0.002
9/25	0.005	0.374	0.001	8.42E-05	0.00003	0.584	0.008	0.002	0.042	0.002
9/26	0.004	0.36	0.001	8.16E-05	2.91E-05	0.575	1.138	0.002	0.022	0.002
9/27	0.004	0.346	0.001	7.91E-05	2.82E-05	0.56	4.647	0.002	0.012	0.002
9/28	0.004	0.333	0.001	7.66E-05	2.73E-05	0.543	2.036	0.002	0.012	0.002
9/29	0.004	0.319	0.001	7.43E-05	2.65E-05	0.524	0.834	0.002	0.02	0.002
9/30	0.004	0.307	0.029	0.000072	2.57E-05	0.506	0.358	0.002	0.052	0.002
10/1	0.004	0.298	0.152	6.98E-05	2.49E-05	0.489	0.161	0.002	0.273	0.002
10/2	0.004	0.289	0.073	6.76E-05	2.41E-05	0.472	0.079	0.001	1.154	0.002
10/3	0.004	0.281	0.03	6.56E-05	1.98E-05	0.455	0.044	0.001	0.682	0.002
10/4	0.003	0.273	0.013	6.35E-05	1.92E-05	0.44	0.029	0.001	0.805	0.002
10/5	0.028	0.262	0.006	6.16E-05	1.86E-05	0.428	0.03	0.001	0.779	0.002
10/6	0.51	0.252	0.003	5.97E-05	0.000018	0.416	0.855	0.001	0.578	0.002
10/7	0.226	0.242	0.002	5.79E-05	1.75E-05	0.498	1.051	0.001	0.517	0.002
10/8	0.089	0.232	0.001	4.95E-05	1.69E-05	0.774	0.526	0.001	0.487	0.002
10/9	0.037	0.222	0.000837	0.000048	1.64E-05	0.609	0.335	0.001	0.467	0.002
10/10	0.017	0.213	0.000753	4.65E-05	1.59E-05	0.55	0.254	0.001	0.451	0.002
10/11	0.008	0.207	0.00073	4.51E-05	1.54E-05	0.517	0.216	0.001	0.436	0.001

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
10/12	0.005	0.2	0.000708	4.37E-05	1.49E-05	0.495	0.213	0.001	0.423	0.001
10/13	0.004	0.192	0.000683	4.23E-05	1.45E-05	0.478	0.216	0.001	0.411	0.001
10/14	0.003	0.186	0.000664	0.000041	0.000014	0.462	0.214	0.001	0.399	0.001
10/15	0.003	0.18	0.000644	3.98E-05	1.36E-05	0.448	0.237	0.000991	0.414	0.001
10/16	0.003	0.172	0.000625	3.85E-05	1.32E-05	0.436	0.299	0.00096	0.449	0.001
10/17	0.003	0.165	0.000612	3.74E-05	1.28E-05	0.425	1.125	0.000931	0.462	0.001
10/18	0.003	1.81	0.000597	3.62E-05	1.24E-05	0.413	0.684	0.000902	0.46	0.001
10/19	0.003	2.153	0.000579	3.51E-05	0.000012	0.4	0.507	0.000874	0.454	0.001
10/20	0.003	0.894	0.000561	0.000034	1.16E-05	0.388	0.444	0.000847	0.447	0.001
10/21	0.003	0.509	0.000544	0.000033	1.13E-05	0.376	0.42	0.000821	0.438	0.001
10/22	0.003	0.376	0.000529	0.000032	1.09E-05	0.364	0.406	0.000796	0.428	0.001
10/23	0.007	0.326	0.000539	0.000031	1.06E-05	0.353	0.396	0.000772	0.418	0.001
10/24	0.014	0.303	0.000589	0.00003	1.03E-05	0.343	0.414	0.000748	0.408	0.000849
10/25	0.019	0.295	0.00065	2.91E-05	9.95E-06	0.334	0.657	0.000725	0.4	0.000821
10/26	0.02	0.294	0.000707	2.82E-05	9.65E-06	0.325	0.554	0.000702	0.399	0.000795
10/27	0.096	0.289	0.000756	2.73E-05	0	0.315	0.562	0.000681	0.401	0.000771
10/28	0.137	0.282	0.000809	2.65E-05	0	0.307	0.54	0.000661	0.4	0.000747
10/29	0.148	0.275	0.00092	2.57E-05	0	0.299	0.531	0.000649	0.398	0.000724
10/30	0.144	0.268	0.001	2.49E-05	0	0.29	0.521	0.000637	0.399	0.000702
10/31	0.15	0.263	0.001	2.41E-05	0	0.281	0.51	0.00062	0.395	0.00068
11/1	0.157	0.262	0.001	1.98E-05	0	0.272	0.501	0.000623	0.387	0.000659
11/2	0.181	0.258	0.002	1.92E-05	1.815	0.263	0.681	0.000666	0.64	0.653
11/3	0.202	0.255	0.002	1.86E-05	7.109	0.256	0.654	0.000761	0.801	0.375
11/4	0.221	0.265	0.002	0.000018	2.526	0.25	0.573	0.000918	0.571	0.125
11/5	0.231	0.281	0.002	1.75E-05	0.839	0.244	0.545	0.001	0.498	0.08
11/6	0.235	0.291	0.002	1.69E-05	0.282	0.237	0.529	0.001	0.481	0.027
11/7	0.235	0.294	0.002	1.64E-05	0.097	0.229	0.516	0.002	0.475	0.01
11/8	0.244	2.467	0.003	1.59E-05	0.035	0.222	0.505	0.002	0.469	0.005
11/9	0.257	1.894	0.003	1.54E-05	0.014	0.216	0.503	0.002	0.46	0.004
11/10	0.271	0.851	0.003	1.49E-05	0.008	0.214	0.507	0.002	0.451	0.006
11/11	3.962	0.521	0.003	1.45E-05	0.006	0.225	0.505	0.003	0.442	0.008
11/12	4.661	0.414	0.003	0.000014	0.006	0.235	0.498	0.003	0.441	0.009
11/13	1.746	0.384	0.003	1.36E-05	0.006	0.239	0.489	0.003	0.44	0.01
11/14	0.847	0.375	0.003	1.32E-05	0.007	0.24	0.479	0.004	0.438	0.011
11/15	0.553	0.372	0.003	1.28E-05	0.008	0.242	0.47	0.004	0.435	0.011
11/16	0.457	0.37	0.003	1.24E-05	0.009	0.247	0.463	0.004	0.434	0.011
11/17	0.408	0.368	0.003	0.000012	0.009	0.254	0.458	0.004	0.434	0.011
11/18	0.407	0.373	0.003	1.16E-05	0.009	0.264	0.451	0.005	0.431	0.011
11/19	0.407	0.385	0.003	1.13E-05	0.009	0.274	0.444	0.005	0.428	0.011
11/20	0.405	0.396	0.003	1.09E-05	0.01	0.28	0.449	0.005	0.43	0.011
11/21	0.402	0.403	0.003	1.06E-05	0.01	0.284	0.461	0.005	0.433	0.012

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
11/22	0.398	0.406	0.002	1.03E-05	0.011	0.285	0.471	0.005	0.433	0.012
11/23	0.393	0.408	0.002	9.95E-06	0.012	0.285	0.476	0.006	0.431	0.012
11/24	0.389	0.407	0.002	9.65E-06	0.012	0.284	0.476	0.006	0.427	0.013
11/25	0.384	0.405	0.002	0	0.013	0.282	0.476	0.006	0.426	0.014
11/26	0.379	0.402	0.002	0	0.014	0.279	0.479	0.007	0.426	0.015
11/27	0.374	0.398	0.002	0	0.016	0.282	0.702	0.008	0.424	0.016
11/28	0.372	0.394	0.002	0	0.017	0.713	0.737	0.009	0.421	0.018
11/29	0.376	0.389	0.002	0	0.019	1.129	0.565	0.01	0.423	0.024
11/30	0.378	0.385	0.002	0	0.02	0.726	0.516	0.011	0.43	0.029
12/1	0.379	1.2	0.002	0	0.022	0.468	0.501	0.012	0.435	0.04
12/2	0.378	1.877	0.002	0	0.022	0.401	0.497	0.012	0.437	0.055
12/3	0.377	0.846	0.002	0	0.096	0.386	0.494	0.013	0.438	0.066
12/4	0.375	0.562	0.002	0	0.381	0.384	0.491	0.013	0.437	0.087
12/5	0.374	0.478	0.002	0	0.515	0.385	0.486	0.013	0.436	0.119
12/6	0.374	0.456	0.002	0	0.391	0.386	0.482	0.013	0.434	0.118
12/7	0.375	0.452	0.002	0	0.145	0.385	0.48	0.014	0.431	1.096
12/8	0.378	0.451	0.002	0	0.068	0.384	0.477	0.014	0.428	1.569
12/9	0.379	0.45	0.001	0	0.047	0.382	0.473	0.014	0.424	0.548
12/10	0.379	0.448	0.001	0	0.041	0.379	0.469	0.014	0.427	0.277
12/11	0.378	0.446	0.001	0	0.039	0.376	0.464	0.014	0.501	0.203
12/12	0.377	0.467	0.001	0	0.04	0.373	0.459	0.014	0.497	0.187
12/13	0.374	0.744	0.001	0	0.04	0.369	0.454	0.014	0.452	0.188
12/14	0.371	0.682	0.001	0	0.041	0.365	0.452	0.014	0.442	0.191
12/15	0.368	0.544	0.001	0	0.286	0.359	0.45	0.014	0.441	0.194
12/16	0.364	0.615	0.001	0	0.957	0.354	0.447	0.014	0.439	0.197
12/17	0.36	3.482	0.001	0	0.26	0.35	0.645	0.014	0.439	0.199
12/18	0.357	3.015	0.001	0	0.098	0.349	0.704	0.015	0.441	0.2
12/19	0.353	1.114	0.001	0	0.059	0.348	0.522	0.461	0.442	0.201
12/20	0.349	0.646	0.001	0	0.055	0.346	1.204	2.215	0.442	0.201
12/21	0.346	0.525	0.001	0	0.075	0.344	0.795	1.133	0.441	0.201
12/22	0.342	0.494	0.000992	0	0.054	0.341	0.552	0.02	0.439	0.2
12/23	0.338	0.619	0.000961	0	0.05	0.339	0.659	0.021	0.437	0.199
12/24	0.333	3.011	0.000886	0	0.049	0.335	0.875	0.023	0.434	0.198
12/25	0.329	1.164	0.000859	0	0.049	0.332	0.581	0.024	0.432	0.197
12/26	0.325	0.668	0.000832	0	0.049	0.329	0.51	0.025	0.428	0.195
12/27	0.321	0.541	0.000807	0	0.049	0.325	0.485	0.026	0.425	0.194
12/28	0.316	0.508	0.000782	0	0.049	0.321	0.487	0.027	0.423	0.192
12/29	0.312	0.498	0.000758	0	0.049	0.317	0.487	0.027	3.752	0.19
12/30	0.308	0.494	0.000735	0	0.048	0.314	0.486	0.028	6.565	0.188
12/31	0.304	0.492	7.12E-04	0	0.048	0.31	0.485	0.029	2.048	0.312

Table AE.5: Daily Average Streamflow for 10 years for Nine Mile River.

Day	Nine Mile River Average Daily Streamflow (cms)									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	5.004	2.683	0.557	2.189	2.244	4.295	1.793	16.317	2.177	2.41
1/2	4.649	2.552	0.56	2.106	2.16	4.064	2.427	14.69	3.695	2.241
1/3	4.501	2.48	0.562	3.029	2.114	3.926	2.02	16.169	5.307	2.727
1/4	5.806	2.646	0.565	4.233	2.088	3.825	1.684	24.367	9.859	4.299
1/5	10.641	4.273	0.568	6.805	2.065	3.739	1.455	23.861	9.772	6.827
1/6	18.359	11.337	0.571	7.312	2.041	3.662	1.296	18.498	8.498	8.397
1/7	17.116	20.428	0.574	5.785	2.018	3.593	1.183	14.349	6.725	6.923
1/8	13.475	18.987	0.576	4.739	1.994	3.531	1.1	11.427	5.382	5.512
1/9	10.772	16.397	0.579	4.016	1.97	3.475	1.039	9.319	4.437	4.546
1/10	8.622	13.713	0.582	3.494	1.946	3.432	1.082	7.766	3.754	4.024
1/11	7.537	11.966	0.584	5.079	1.922	3.563	1.329	6.604	3.25	3.544
1/12	6.644	9.85	0.586	5.703	1.9	4.164	1.226	5.724	2.891	3.429
1/13	5.949	8.079	0.588	4.686	1.875	4.283	1.118	5.049	3.359	5.165
1/14	5.402	6.759	0.589	3.938	1.85	3.969	1.044	4.527	7.208	7.323
1/15	4.967	5.758	0.59	3.412	1.83	3.73	0.99	4.12	14.369	12.05
1/16	4.617	4.989	0.591	3.029	1.833	3.552	0.95	3.799	13.999	10.621
1/17	4.333	4.39	0.591	2.744	1.88	3.415	0.919	3.543	11.128	8.401
1/18	4.101	3.919	0.591	2.17	1.995	3.303	0.895	3.338	8.879	7.067
1/19	3.908	3.547	0.593	1.821	1.937	3.211	0.876	3.172	7.227	9.378
1/20	3.747	3.251	0.602	1.789	1.863	3.131	0.861	3.036	5.99	8.922
1/21	3.611	3.011	0.599	1.778	1.803	3.061	0.848	2.715	5.05	9.625
1/22	3.497	2.816	0.599	1.767	1.755	2.998	0.837	2.542	4.325	10.253
1/23	3.564	2.657	1.107	1.756	1.713	2.94	0.828	2.514	3.76	8.597
1/24	3.852	2.537	3.487	1.744	1.677	2.97	0.82	2.49	3.316	6.978
1/25	3.645	2.594	4.897	1.732	1.644	3.239	0.813	2.465	2.964	5.855
1/26	3.464	3.007	4.703	1.72	1.615	3.372	0.805	2.44	2.683	4.942
1/27	3.325	3.04	3.678	1.707	1.587	4.388	0.799	2.415	2.458	4.228
1/28	3.215	2.724	2.971	1.694	1.561	6.951	0.793	2.39	2.276	3.681
1/29	3.123	2.889	2.63	1.681	1.536	10.141	0.787	2.365	2.129	3.445
1/30	3.045	3.588	2.305	1.667	1.514	10.186	0.781	2.34	2.008	6.716
1/31	2.977	3.815	1.971	1.653	1.577	8.663	0.776	2.315	1.908	14.465
2/1	2.917	3.782	1.68	1.639	1.843	7.304	0.77	2.289	1.826	15.88
2/2	2.871	3.736	1.455	1.625	2.096	6.303	0.768	2.264	1.757	12.697
2/3	2.823	3.312	2.27	1.611	2	5.544	0.848	2.238	1.699	10.285
2/4	2.828	2.983	3.162	1.596	1.837	4.916	2.873	2.213	1.65	11.306
2/5	3.246	2.732	3.011	1.581	1.723	4.405	5.736	2.187	1.611	13.08
2/6	4.216	2.537	2.481	1.566	1.629	3.999	4.53	2.162	1.581	10.736
2/7	4.901	2.384	2.112	1.551	1.791	3.671	3.595	2.136	1.555	8.749
2/8	4.487	2.262	1.844	1.536	2.314	3.421	2.93	2.11	1.805	7.25
2/9	4.002	2.222	1.606	1.52	2.253	3.477	2.443	2.085	2.487	6.1
2/10	3.644	2.282	1.595	1.504	10.025	4.025	2.077	2.059	2.585	5.204
2/11	3.373	2.232	1.995	1.493	26.357	4.866	1.797	2.033	2.305	4.498
2/12	3.163	2.906	4.186	1.475	22.122	6.246	1.58	2.008	2.079	3.936
2/13	2.994	4.512	6.73	1.459	17.205	5.651	1.408	1.982	1.915	3.485
2/14	2.857	3.928	7.582	1.443	13.622	5.057	1.272	1.96	1.791	3.12
2/15	2.742	3.383	5.947	1.427	10.962	4.447	1.162	1.933	1.697	2.824
2/16	2.646	2.985	4.79	1.411	8.944	3.941	1.073	1.908	1.939	2.586
2/17	2.567	2.843	4.894	1.397	7.392	3.846	1.002	1.888	2.985	3.314
2/18	2.503	4.066	6.765	1.385	6.183	4.598	0.945	1.87	2.742	8.858
2/19	2.459	6.721	6.232	1.373	5.231	4.298	0.905	1.853	2.412	8.111
2/20	2.764	6.246	5.102	1.361	4.474	4.133	0.87	1.836	2.171	6.569
2/21	4.84	5.433	4.195	1.35	3.869	10.793	0.846	1.927	1.992	5.438
2/22	12.48	4.609	3.501	1.34	3.381	20.694	1.003	2.437	1.856	4.596
2/23	20.112	4.018	2.963	1.355	2.988	19.581	1.627	2.362	1.751	3.957
2/24	16.793	3.527	2.542	2.25	2.669	15.703	1.517	2.311	1.668	3.463
2/25	13.361	3.145	2.211	4.656	2.441	12.258	1.315	2.2	1.603	3.078
2/26	11.008	2.845	1.966	10.901	3.866	17.514	1.172	2.093	1.55	2.773
2/27	9.167	2.61	1.771	13.347	7.428	29.457	1.068	2.03	1.507	2.519
2/28	11.5	2.454	1.649	15.118	6.451	24.911	0.992	2.239	1.473	2.31
2/29				13.053				3.064		
3/1	11.954	2.429	3.491	10.551	5.17E+00	19.723	0.935	3.989	1.445	2.169
3/2	10.893	2.294	4.395	10.069	4.194	15.874	0.891	5.666	1.423	2.045
3/3	12.511	2.373	3.855	12.052	3.602	13.567	0.858	10.975	1.404	1.944
3/4	10.627	2.74	3.893	10.115	3.161	15.388	0.832	14.512	1.392	1.862
3/5	8.792	2.791	3.268	8.267	2.95	13.286	0.812	15.091	1.379	1.796
3/6	7.408	2.548	2.758	6.933	2.75	10.914	0.798	22.293	1.365	1.743
3/7	6.347	2.344	2.373	5.56	2.457	9.105	0.785	29.83	1.758	1.703
3/8	5.522	2.206	2.078	5.308	2.226	7.805	0.776	25.295	6.421	1.7
3/9	4.874	2.434	1.849	6.623	2.048	9.239	0.77	21.423	18.145	2.909
3/10	4.362	6.818	1.67	9.049	1.911	17.439	0.765	17.132	16.739	12.616
3/11	4.263	14.873	1.529	10.833	1.804	26.715	0.762	14.729	13.014	23.678
3/12	5.032	12.722	1.411	9.131	1.715	22.439	0.76	12.913	10.302	23.999
3/13	4.523	10.172	1.396	7.406	1.645	17.835	0.759	11.65	8.32	24.516
3/14	4.02	8.298	1.432	6.108	1.827	14.596	0.759	9.781	6.839	31.966
3/15	3.667	6.902	1.327	6.838	2.497	13.671	0.763	8.195	5.715	34.975
3/16	4.525	5.843	1.421	12.893	3.543	14.379	1.288	7.451	4.85	27.927
3/17	4.671	5.077	2.07	12.593	4.621	14.95	4.554	6.374	4.178	22.195
3/18	4.131	4.299	5.021	10.249	3.895	12.67	11.979	5.457	3.652	17.806
3/19	3.729	4.03	7.174	8.266	3.318	10.982	20.901	4.755	3.243	14.472
3/20	3.425	10.082	5.657	6.811	3.189	10.045	23.321	4.249	2.936	11.912
3/21	3.196	16.326	4.544	5.75	3.725	10.794	23.91	4.657	2.686	9.923
3/22	3.084	17.659	4.259	4.919	3.944	14.009	26.429	6.814	2.505	8.364
3/23	3.04	14.28	5.129	4.269	4.318	14.948	22.412	6.028	2.695	7.315
3/24	2.908	11.321	4.729	3.764	4.649	12.77	18.006	5.113	3.597	6.178
3/25	2.818	9.215	4.051	3.37	4.955	10.415	14.77	4.793	3.336	5.45
3/26	5.838	7.906	3.416	3.062	4.227	8.744	13.761	8.937	3.065	4.817
3/27	9.815	7.394	2.954	2.816	3.696	7.437	13.177	16.486	2.795	4.347
3/28	13.035	8.487	2.617	2.992	3.284	6.431	10.792	18.924	2.612	4.565
3/29	25.48	8.474	2.402	4.737	2.983	5.703	9.9	16.564	2.541	6.243
3/30	44.289	7.318	2.35	8.408	2.779	6.297	15.261	14.826	5.165	10.958
3/31	49.028	6.196	2.576	7.22	2.631	11.646	16.438	19.081	14.389	15.266
4/1	39.704	5.362	3.591	6.006	2.505	17.084	13.322	20.355	25.279	13.61
4/2	31.034	4.786	5.367	5.129	2.513	16.358	10.621	17.183	25.38	17.792

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	28	4.507	7.718	4.485	2.799	13.363	8.717	13.807	21.652	16.519
4/4	31.561	4.402	9.587	4.005	3.4	11.107	7.229	12.013	21.061	14.207
4/5	26.731	4.041	10.673	3.709	5.33	9.431	6.13	10.301	17.36	14.426
4/6	23.213	3.741	13.243	3.466	8.844	8.188	5.318	8.851	15.124	12.509
4/7	23.559	3.514	11.451	3.23	17.99	7.212	4.638	7.723	14.829	10.726
4/8	24.337	3.339	9.311	3.085	28.34	6.403	4.028	6.858	14.84	11.749
4/9	19.895	3.221	7.778	2.972	35.785	6.111	3.637	6.163	13.012	13.645
4/10	16.314	3.151	6.598	2.859	41.051	10.081	3.481	5.63	11.867	11.376
4/11	13.636	3.065	5.714	2.775	33.116	11.192	3.355	5.206	11.963	9.535
4/12	11.604	3	6.2	2.708	27.616	10.16	3.144	4.875	12.206	8.65
4/13	10.053	2.933	8.898	2.692	25.887	11.784	2.984	4.624	11.292	11.023
4/14	8.84	2.867	7.815	2.693	23.274	16.725	2.871	4.441	10.307	18.876
4/15	8.04	2.815	6.605	2.658	19.593	16.411	2.872	4.28	9.683	20.176
4/16	7.278	2.802	5.715	2.633	16.618	16.618	3.706	4.191	8.441	19.061
4/17	6.73	2.855	5.065	2.606	15.961	19.096	4.715	4.384	7.414	16.573
4/18	6.282	3.067	4.74	2.577	16.9	21.917	4.603	5.198	6.647	14.761
4/19	5.91	3.014	4.406	2.545	14.497	23.918	4.42	10.564	6.062	13.664
4/20	5.602	2.946	4.087	2.519	12.382	30.966	5.332	15.081	5.607	13.482
4/21	5.368	2.894	3.842	2.953	10.802	31.751	7.708	14.695	5.248	13.793
4/22	5.203	2.845	3.659	3.636	10.111	26.68	9.863	13.771	4.993	14.714
4/23	5.136	2.792	4.217	3.411	12.284	22.55	9.46	13.569	4.786	16.044
4/24	5.177	2.737	6.207	3.222	13.555	19.018	8.065	11.761	4.653	21.147
4/25	5.389	2.683	5.609	3.09	14.316	16.319	7.056	10.233	4.63	21.349
4/26	5.637	2.63	5.004	2.977	12.794	14.431	6.373	8.955	4.87	17.887
4/27	5.939	2.577	4.567	2.878	11.657	12.931	5.97	8.066	5.598	15.195
4/28	6.365	2.526	4.234	2.786	12.713	11.661	5.893	7.465	6.566	13.146
4/29	7.95	2.474	3.954	2.703	12.186	12.545	5.969	6.966	6.308	11.568
4/30	8.612	2.422	3.728	2.629	11.797	13.164	5.661	6.561	6.083	10.331
5/1	9.355	2.37	3.564	2.564	12.815	11.731	5.409	6.248	5.781	9.34
5/2	10.326	2.316	3.424	2.547	15.926	10.558	9.728	6.072	5.565	8.534
5/3	10.3	2.415	3.307	2.499	19.787	9.868	12.2	6.33	5.442	7.876
5/4	13.767	2.548	3.208	2.435	23.927	9.272	10.338	6.392	5.342	7.336
5/5	18.976	2.441	3.123	2.376	27.108	8.685	8.912	6.207	5.25	6.891
5/6	16.817	2.338	3.049	2.32	28.414	8.229	8.002	6.126	5.16	6.52
5/7	16.14	2.249	3.007	2.265	27.253	7.917	7.393	6.014	5.077	6.21
5/8	15.156	2.17	2.98	2.211	24.873	7.567	6.858	5.919	4.992	5.948
5/9	13.912	2.1	2.926	2.177	21.566	7.332	6.444	5.985	4.907	5.724
5/10	16.784	2.041	2.883	2.241	19.143	7.274	6.111	6.266	4.825	5.5
5/11	18.291	2.006	2.825	2.318	16.619	7.156	5.872	6.634	4.747	5.296
5/12	16.685	2.01	2.77	2.276	15.046	7.021	5.944	6.487	4.673	5.217
5/13	16.211	1.954	2.719	4.472	13.489	7.219	6.558	6.337	4.601	5.089
5/14	17.052	1.875	2.668	8.75	11.949	7.65	6.837	6.211	4.557	4.966
5/15	14.77	1.799	2.618	7.256	10.715	7.573	7.559	6.143	4.63	4.87
5/16	14.376	1.727	2.568	6.105	9.807	7.399	7.184	6.118	4.599	4.779
5/17	17.415	1.658	2.524	5.478	9.136	8.649	6.865	6.032	4.515	4.702
5/18	15.735	1.59	2.613	5.284	8.634	11.092	6.641	5.95	4.427	4.638
5/19	13.597	1.522	2.664	15.114	8.242	10.057	6.435	5.906	4.341	4.687
5/20	12.114	1.454	2.581	18.463	7.911	9.247	6.262	5.865	4.259	4.631

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	10.969	1.385	2.488	14.341	7.63	8.698	6.184	5.785	4.184	4.582
5/22	10.127	1.315	2.405	11.44	7.403	8.289	6.128	5.697	4.111	4.556
5/23	9.511	1.248	2.335	9.448	7.396	7.964	6.018	6.443	4.041	4.473
5/24	9.055	1.184	2.272	8.059	7.4	7.704	5.962	9.951	3.994	4.391
5/25	8.714	1.122	2.299	7.238	7.284	7.504	6.449	16.963	3.921	4.315
5/26	8.443	1.164	3.14	6.54	7.168	7.316	6.481	17.081	3.841	4.244
5/27	8.195	1.203	3.719	5.964	7.063	7.157	6.356	14.645	3.759	4.193
5/28	7.97	1.137	3.384	5.498	6.988	7.003	6.346	12.636	3.675	4.126
5/29	7.769	1.072	3.118	5.113	6.934	6.86	6.281	11.222	3.587	4.054
5/30	7.588	1.108	2.906	4.789	6.884	6.728	6.188	10.187	3.496	3.983
5/31	7.444	1.101	2.734	4.508	6.787	6.626	6.097	9.396	3.403	3.922
6/1	7.302	1.053	2.657	4.267	6.677	6.557	6.02	8.779	3.303	3.981
6/2	7.132	1.033	2.579	4.068	6.598	6.489	5.914	8.297	3.175	3.885
6/3	7.003	0.969	2.521	3.922	6.514	6.379	5.799	7.88	3.029	3.787
6/4	6.884	0.912	2.434	3.764	6.425	6.243	5.685	7.521	2.877	3.785
6/5	6.763	0.863	2.343	3.613	6.317	6.17	5.669	7.214	2.723	3.749
6/6	6.637	0.821	2.253	3.474	6.193	6.054	5.694	6.949	2.584	3.639
6/7	6.505	0.783	2.166	3.344	6.08	5.916	5.61	6.716	2.494	3.535
6/8	6.379	0.748	2.083	3.225	5.965	5.783	5.499	6.506	2.398	3.436
6/9	6.285	0.717	2.005	3.116	5.85	5.652	5.525	6.315	2.298	3.342
6/10	6.175	0.689	1.928	3.103	5.742	5.523	5.546	6.162	2.192	3.25
6/11	6.05	0.663	1.861	3.072	5.702	5.394	5.466	6.028	2.126	3.158
6/12	5.912	0.644	1.794	2.993	5.698	5.321	5.389	5.895	2.026	3.067
6/13	5.777	0.725	1.719	2.928	5.558	5.347	5.311	5.709	1.921	2.974
6/14	5.625	0.716	1.649	4.556	5.414	5.198	5.271	5.589	1.87	2.878
6/15	5.442	0.662	1.735	6.724	5.28	5.046	5.167	5.587	1.878	2.779
6/16	5.249	0.62	1.678	6.467	5.169	4.964	5.034	5.447	1.871	2.677
6/17	5.134	0.586	1.563	5.809	5.103	5.024	4.887	5.265	1.782	2.568
6/18	5.002	0.558	1.462	5.294	5.062	4.921	4.741	5.087	1.701	2.44
6/19	4.846	0.533	1.372	4.889	4.917	4.788	4.696	4.957	1.629	2.361
6/20	4.692	0.511	1.308	4.542	4.765	4.642	4.719	4.82	1.565	2.355
6/21	4.662	0.496	1.258	4.235	4.633	4.493	4.596	4.666	1.506	2.273
6/22	4.584	0.479	1.213	4.032	4.569	4.352	4.447	4.553	1.458	2.197
6/23	4.484	0.462	1.17	3.834	4.777	4.348	4.288	4.585	1.415	2.127
6/24	4.302	0.446	1.128	3.619	4.717	4.247	4.13	4.48	1.36	2.059
6/25	4.132	0.431	1.115	3.657	4.61	4.095	3.976	4.458	1.307	1.992
6/26	3.994	0.417	1.209	10.289	4.482	3.947	3.825	4.381	1.257	1.927
6/27	3.843	0.418	1.154	12.238	4.34	3.841	3.705	4.255	1.208	1.875
6/28	3.697	0.421	1.099	10.424	4.192	3.806	3.618	4.115	1.164	1.823
6/29	3.554	0.402	1.056	9.016	4.058	3.7	3.474	3.999	1.124	1.769
6/30	3.411	0.384	1.005	8.016	3.913	3.557	3.33	3.862	1.088	1.719
7/1	3.264	0.409	0.96	7.212	3.787	3.41	3.19	3.717	1.052	1.667
7/2	3.085	0.446	0.969	6.527	3.776	3.265	3.049	3.574	1.022	1.613
7/3	2.887	0.417	1.02	5.947	3.695	3.123	2.908	3.434	0.986	1.561
7/4	2.745	0.39	0.957	5.416	3.586	2.984	2.775	3.294	0.955	1.511
7/5	2.682	0.399	0.899	5.029	3.455	2.847	2.649	3.232	0.925	1.463
7/6	2.6	0.387	0.85	4.723	3.307	2.709	2.515	3.168	0.896	1.417
7/7	2.527	0.362	0.809	4.425	3.161	2.568	2.369	3.05	0.867	1.372

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	2.48	0.388	0.772	4.154	3.021	2.43	2.307	3.016	0.84	1.329
7/9	2.452	0.411	0.739	3.905	2.898	2.328	2.206	2.928	0.814	1.288
7/10	2.432	0.377	0.732	3.99	2.77	2.283	2.088	2.793	0.789	1.249
7/11	2.333	0.344	0.721	4.004	2.634	2.209	2.02	2.648	0.764	1.297
7/12	2.243	0.319	0.695	3.806	2.497	2.135	2.01	2.504	0.74	1.28
7/13	2.162	0.297	0.665	3.597	2.376	2.061	2.042	2.366	0.717	1.289
7/14	2.087	0.28	0.637	3.397	2.277	1.989	1.989	2.334	0.695	1.247
7/15	2.304	0.267	0.612	3.244	2.182	1.918	1.899	3.335	0.69	1.181
7/16	2.357	0.249	0.589	3.192	2.087	1.851	1.848	3.567	0.669	1.124
7/17	2.217	0.238	0.567	3.339	2.015	1.79	1.835	3.433	1.129	1.074
7/18	2.102	0.228	0.547	3.266	1.945	1.743	1.754	3.284	2.434	1.03
7/19	1.998	0.218	0.528	3.16	1.877	1.688	1.676	3.16	2.249	0.993
7/20	1.918	0.211	0.521	3.035	1.815	1.639	1.605	3.071	1.905	0.955
7/21	1.834	0.208	0.546	2.896	1.756	1.59	1.558	2.925	1.637	0.922
7/22	1.796	0.2	0.525	2.794	1.779	1.539	1.516	2.766	1.426	0.885
7/23	1.744	0.192	0.498	2.703	2.21	1.502	1.452	2.6	1.256	0.854
7/24	1.67	0.184	0.475	2.584	2.351	1.55	1.391	2.439	1.115	0.825
7/25	1.601	0.176	0.454	2.468	2.192	1.508	1.345	2.285	1.073	0.797
7/26	1.538	0.17	0.436	2.357	2.033	1.44	1.296	2.139	1.035	0.771
7/27	1.483	0.163	0.419	2.25	1.9	1.42	1.244	1.999	1.003	0.803
7/28	1.43	0.157	0.403	2.165	1.785	1.389	1.196	1.888	1.003	0.942
7/29	1.41	0.152	0.388	2.122	1.685	1.368	1.15	1.827	0.919	0.892
7/30	1.367	0.146	0.374	2.229	1.596	1.348	1.105	1.718	0.831	0.83
7/31	1.311	0.141	0.376	2.306	1.517	1.334	1.066	1.646	0.756	0.781
8/1	1.26	0.136	0.379	2.361	1.445	1.315	1.15	1.613	0.694	0.743
8/2	1.213	0.132	0.383	2.557	1.379	1.282	1.144	1.569	0.64	0.706
8/3	1.17	0.127	0.391	2.89	1.32	1.212	1.118	1.51	0.593	0.766
8/4	1.151	0.123	0.372	2.877	1.264	1.151	1.183	1.503	0.553	1.48
8/5	1.176	0.119	0.366	2.783	1.213	1.105	1.69	1.452	0.519	2.308
8/6	1.127	0.117	0.402	2.672	1.165	1.077	1.778	1.391	0.508	2.125
8/7	1.075	0.179	0.388	2.57	1.12	1.03	1.585	1.327	0.483	1.823
8/8	1.03	0.835	0.374	2.472	1.078	0.985	1.45	1.269	0.452	1.582
8/9	0.988	1.231	0.4	2.365	1.038	0.944	1.325	1.215	0.425	1.388
8/10	0.95	1.075	0.404	2.284	1.003	0.906	1.217	1.166	0.4	1.23
8/11	0.915	0.902	0.376	2.182	0.974	0.878	1.125	1.136	0.38	1.099
8/12	0.895	0.765	0.359	2.081	0.939	0.847	1.068	1.097	0.363	0.989
8/13	0.884	0.655	0.334	1.987	0.905	0.817	1.04	1.057	0.357	0.896
8/14	1.028	0.565	0.321	1.896	0.872	0.788	0.976	1.013	0.354	0.832
8/15	1.032	0.492	0.368	1.811	0.842	0.762	0.909	0.972	0.359	0.773
8/16	0.984	0.431	0.365	1.837	0.815	0.747	0.85	0.934	0.34	0.756
8/17	1.011	0.38	0.333	2.536	0.807	0.723	0.799	0.897	0.318	0.705
8/18	0.952	0.34	0.305	2.599	0.833	0.697	0.755	0.864	0.299	0.65
8/19	0.887	0.318	0.282	2.572	0.801	0.672	0.715	0.833	0.28	0.602
8/20	0.832	0.285	0.262	2.591	1.022	0.653	0.679	0.804	0.292	0.562
8/21	0.795	0.254	0.245	2.538	2.085	0.665	0.645	0.777	0.329	0.552
8/22	0.853	0.228	0.231	2.444	2.222	0.644	0.629	0.751	0.373	0.521
8/23	0.945	0.204	0.218	2.38	1.951	0.643	0.684	0.726	0.347	0.485
8/24	1	0.211	0.206	2.538	1.72	0.69	0.661	0.706	0.317	0.453

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.946	0.222	0.196	2.616	1.532	0.66	0.618	0.684	0.292	0.425
8/26	0.904	0.199	0.189	2.593	1.376	0.62	0.581	0.66	0.27	0.408
8/27	0.849	0.177	0.207	2.534	1.245	0.586	0.549	0.674	0.252	0.411
8/28	0.801	0.158	0.205	2.475	1.133	0.557	0.52	0.726	0.253	0.428
8/29	0.79	0.148	0.194	2.401	1.037	0.53	0.495	0.73	0.268	0.411
8/30	0.753	0.165	0.182	2.309	0.954	0.507	0.479	0.714	0.374	0.381
8/31	0.713	0.154	0.171	2.208	0.881	0.486	0.46	0.723	0.352	0.355
9/1	0.682	0.131	0.162	2.105	0.816	0.466	0.44	0.68	0.316	0.332
9/2	0.651	0.129	0.153	2.003	0.759	0.448	0.421	0.637	0.298	0.312
9/3	0.621	0.13	0.146	2.042	0.709	0.431	0.403	0.601	0.271	0.295
9/4	0.593	0.125	0.139	2.149	0.669	0.415	0.387	0.569	0.246	0.316
9/5	0.567	0.137	0.133	2.136	0.651	0.402	0.371	0.542	0.225	0.32
9/6	0.543	0.136	0.127	2.094	0.614	0.391	0.357	0.517	0.208	0.298
9/7	0.527	0.12	0.141	2.037	0.576	0.377	0.343	0.491	0.193	0.273
9/8	0.559	0.106	0.199	1.97	0.548	0.363	0.331	0.593	0.181	0.272
9/9	0.537	0.097	0.294	1.893	0.539	0.351	0.319	0.641	0.17	0.26
9/10	0.501	0.087	0.294	1.809	0.549	0.339	0.307	0.591	0.164	0.25
9/11	0.575	0.084	0.258	1.746	0.635	0.327	0.297	0.544	0.157	0.239
9/12	0.583	0.081	0.226	1.721	0.583	0.319	0.286	0.505	0.143	0.227
9/13	0.545	0.074	0.207	1.672	0.538	0.312	0.276	0.472	0.13	0.215
9/14	0.519	0.067	0.199	1.62	0.52	0.301	0.267	0.445	0.124	0.208
9/15	0.488	0.062	0.212	2.737	0.478	0.29	0.257	0.42	0.117	0.222
9/16	0.461	0.059	0.221	6.009	0.442	0.281	0.334	0.399	0.112	0.217
9/17	0.438	0.057	0.198	6.249	0.411	0.276	0.455	0.377	0.165	0.201
9/18	0.43	0.058	0.176	5.537	0.387	0.267	0.424	0.373	0.231	0.187
9/19	0.404	0.066	0.157	4.993	0.369	0.257	0.377	0.356	0.2	0.189
9/20	1.696	0.065	0.142	4.579	0.401	0.248	0.414	0.34	0.174	0.202
9/21	4.105	0.058	0.124	4.361	0.591	0.25	0.653	0.326	0.154	0.261
9/22	3.644	0.053	0.111	4.934	0.942	0.297	0.67	0.312	0.137	0.262
9/23	3.022	0.048	0.102	4.89	1.699	0.375	0.868	0.299	0.174	0.252
9/24	2.569	0.047	0.095	6.568	1.714	0.347	1.935	0.288	0.205	0.236
9/25	2.216	0.038	0.125	6.693	1.452	0.312	2.011	0.277	0.156	0.268
9/26	1.937	0.038	0.152	6.104	1.483	0.284	2.979	0.267	2.685	0.297
9/27	1.716	0.057	0.135	5.651	6.927	0.262	2.573	0.257	9.679	0.28
9/28	1.54	0.057	0.117	5.293	9.457	0.24	2.244	0.248	9.849	0.258
9/29	1.398	0.097	0.105	5.002	7.838	0.239	2.256	0.239	8.291	0.237
9/30	1.294	0.148	0.106	4.757	6.491	0.236	3.356	0.231	10.415	0.248
10/1	1.423	0.13	0.293	4.546	5.458	0.232	3.436	0.223	9.715	0.251
10/2	1.593	0.104	0.43	4.352	4.654	0.221	3.982	0.215	8.988	0.313
10/3	1.469	0.093	0.415	4.171	4.125	0.22	5.917	0.224	7.744	0.306
10/4	1.374	0.088	0.362	4.013	3.443	0.215	5.929	0.266	6.499	0.328
10/5	1.282	0.092	0.361	3.932	3.054	0.228	8.102	0.307	5.517	1.766
10/6	1.285	0.129	0.401	3.821	3.161	0.232	10.083	0.279	4.779	2.768
10/7	1.265	0.126	0.356	3.804	6.479	0.23	9.19	0.255	4.021	2.199
10/8	1.266	0.121	0.299	4.582	8.548	0.281	7.753	0.235	3.45	1.753
10/9	1.26	0.103	0.253	5.684	7.761	0.262	6.658	0.22	2.97	1.425
10/10	1.272	0.128	0.242	5.313	6.55	0.262	5.814	0.215	2.586	1.179
10/11	1.376	0.147	0.22	4.969	5.644	0.258	5.152	0.24	2.277	1.007

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	1.382	0.123	0.187	4.714	5.001	0.229	4.624	0.221	2.026	1.407
10/13	1.358	0.099	0.162	4.519	4.565	0.204	4.206	0.2	1.822	3.111
10/14	1.336	0.085	0.257	4.361	4.219	0.19	3.861	0.183	1.655	3.328
10/15	1.374	0.084	0.387	4.227	5.051	0.175	3.83	0.17	1.519	2.729
10/16	1.379	0.077	0.311	4.114	5.885	0.18	4.744	0.197	1.423	2.231
10/17	1.365	0.112	0.257	4.027	5.673	0.176	4.515	0.299	1.36	1.862
10/18	1.349	0.123	0.225	3.931	11.029	0.161	4.045	1.388	1.29	2.658
10/19	1.331	0.091	0.188	3.835	11.879	0.154	3.763	3.425	1.259	3.597
10/20	1.313	0.088	0.16	3.744	10.048	0.161	3.523	2.785	1.19	3.07
10/21	1.295	0.088	0.14	3.656	8.676	0.173	3.331	2.15	1.135	2.656
10/22	1.302	0.083	0.133	3.571	7.649	0.223	3.18	1.695	1.097	2.344
10/23	1.341	0.079	0.243	3.488	6.862	0.225	3.061	1.36	1.061	2.469
10/24	1.383	0.087	0.87	3.409	6.351	0.2	2.964	1.116	1.031	3.247
10/25	1.422	0.085	1.212	3.36	6.425	0.17	2.881	0.949	1.006	3.618
10/26	1.424	0.077	0.965	3.289	9.238	0.165	2.862	0.789	0.985	3.595
10/27	1.431	0.063	0.78	3.217	9.643	0.23	2.88	0.662	0.968	3.172
10/28	1.518	0.051	0.645	3.191	9.685	0.211	2.836	0.56	0.952	2.974
10/29	1.923	0.041	0.546	3.128	8.454	0.2	2.817	0.484	0.939	5.324
10/30	2.383	0.034	0.472	3.059	7.482	0.172	2.849	0.467	0.924	5.768
10/31	2.329	0.029	0.417	2.992	6.777	0.148	2.813	0.78	0.911	4.814
11/1	2.27	0.025	0.376	2.933	6.26	0.221	2.779	0.784	0.918	4.135
11/2	2.458	0.022	0.351	2.863	5.861	0.631	2.752	0.853	1.036	3.659
11/3	3.322	0.019	2.505	2.794	6.972	0.592	3.501	4.119	0.998	3.316
11/4	4.271	0.017	6.941	2.724	6.967	0.505	5.235	4.231	0.959	3.061
11/5	4.006	0.015	8.3	2.693	6.37	0.718	6.552	3.886	0.931	2.869
11/6	4.287	0.014	8.958	2.643	5.936	1.208	6.619	4.554	0.911	2.72
11/7	3.88	0.016	7.295	2.581	5.611	2.238	5.785	3.525	0.906	2.603
11/8	3.491	0.022	5.687	2.521	5.362	2.266	5.149	2.746	0.893	2.604
11/9	3.213	0.027	4.517	2.474	5.339	1.761	4.692	2.2	0.884	2.689
11/10	3.009	0.054	3.656	2.463	5.35	1.387	4.351	1.849	0.94	2.595
11/11	2.874	0.076	3.07	2.579	5.159	1.519	4.068	1.825	0.926	2.545
11/12	2.782	0.096	2.623	2.538	5.005	2.562	4.06	1.761	0.91	2.82
11/13	2.698	0.105	2.278	2.481	4.88	2.218	3.937	1.483	0.907	2.764
11/14	2.621	0.08	2.028	2.441	4.776	1.745	3.757	1.271	0.94	2.65
11/15	2.56	0.063	1.82	2.427	4.69	1.447	3.624	1.112	0.935	2.564
11/16	2.513	0.052	1.678	2.532	4.644	1.197	3.675	0.993	1.979	2.8
11/17	2.476	0.374	1.556	2.827	4.581	1.001	3.722	0.902	7.131	6.335
11/18	2.446	1.104	1.46	3.068	4.524	0.848	3.678	0.84	7.631	5.943
11/19	2.424	0.896	1.389	3.083	4.473	0.737	3.655	0.807	6.009	4.935
11/20	2.404	0.678	1.362	2.934	4.714	0.681	4.743	0.786	5.267	4.307
11/21	2.406	1.056	1.434	2.804	5.138	0.77	4.78	0.796	5.188	3.86
11/22	2.428	1.695	1.472	2.709	5.034	0.8	4.373	0.8	4.625	3.541
11/23	2.458	1.288	1.432	2.636	4.847	0.711	4.093	0.793	4.395	3.309
11/24	2.54	0.962	1.421	2.58	4.71	0.64	3.894	0.815	3.704	3.134
11/25	2.503	0.738	1.696	2.533	4.628	0.59	3.943	0.85	3.206	3.001
11/26	2.477	1.093	1.65	2.49	4.817	0.555	3.937	0.875	2.811	2.898
11/27	4.023	2.83	2.617	2.472	4.899	0.53	3.783	0.879	2.521	2.816
11/28	5.996	2.534	3.092	2.639	5.435	0.514	3.7	0.982	2.363	2.749
11/29	5.381	1.928	2.664	3.941	5.539	0.503	4.932	1.217	4.451	2.695
11/30	4.851	1.469	2.351	5.767	6.345	0.497	6.009	1.282	10.746	2.648
12/1	4.644	1.713	2.135	5.712	9.352	0.494	5.354	1.454	10.868	3.931
12/2	4.289	3.588	1.96	4.795	8.653	0.493	5.006	3.574	8.56	7.493
12/3	3.865	2.845	2.33	4.169	7.464	0.494	4.603	3.266	6.865	7.512
12/4	3.814	2.149	5.048	3.742	6.661	0.497	4.308	2.783	5.664	6.185
12/5	4.229	1.671	5.676	3.439	6.096	0.5	4.067	2.728	4.791	5.281
12/6	3.844	1.338	6.851	3.218	5.8	0.504	3.896	2.692	4.143	4.647
12/7	3.545	3.015	6.683	3.051	5.524	0.508	3.765	2.288	3.653	4.189
12/8	3.341	8.882	5.461	2.924	5.249	0.513	3.664	4.676	3.278	3.849
12/9	3.323	6.817	4.503	2.824	5.036	0.517	3.584	8.496	2.989	3.591
12/10	3.404	5.031	3.832	2.745	4.867	0.523	3.531	8.551	2.765	3.392
12/11	3.232	3.819	3.827	2.681	4.73	0.527	4.487	7.255	2.59	3.236
12/12	3.081	2.967	3.736	2.628	4.618	0.531	6.007	6.182	2.452	3.107
12/13	2.974	2.352	3.254	2.583	4.545	0.535	5.735	5.01	2.345	3.238
12/14	2.89	1.899	2.911	2.545	4.702	0.539	5.039	4.168	2.259	4.651
12/15	2.826	1.561	2.779	2.51	4.703	0.556	4.564	3.556	2.192	5.131
12/16	2.777	1.305	3.265	2.478	4.545	0.623	4.235	3.099	2.138	5.529
12/17	2.738	1.111	5.032	2.821	4.42	0.684	4.099	2.757	2.083	5.326
12/18	2.734	0.964	4.958	3.611	4.993	0.658	4.143	2.497	2.044	5.086
12/19	2.831	0.854	4.148	2.944	6.468	0.657	3.925	2.298	2.016	4.787
12/20	2.902	0.775	3.582	2.4	7.973	1.212	3.756	2.145	1.993	4.228
12/21	2.831	0.71	4.144	2.357	9.162	2.736	3.631	2.028	1.975	3.83
12/22	2.793	0.673	4.835	2.351	7.712	2.467	3.534	1.952	1.961	3.607
12/23	2.736	0.649	4.097	2.345	6.693	1.945	3.458	1.875	1.949	4.277
12/24	2.691	0.613	3.563	2.338	6.743	1.596	3.439	1.82	1.939	4.674
12/25	2.665	0.589	3.167	2.331	7.103	1.363	3.5	1.773	1.951	4.19
12/26	3.085	0.573	2.888	2.323	6.269	1.204	3.468	1.739	1.988	3.809
12/27	3.405	0.563	2.681	2.315	5.665	1.093	3.392	1.714	2.061	3.604
12/28	3.162	0.557	2.526	2.307	5.232	1.014	3.343	1.696	2.098	4.224
12/29	2.98	0.555	2.41	2.298	4.912	0.958	3.874	1.683	2.496	4.293
12/30	2.858	0.554	2.322	2.288	4.669	0.918	11.885	1.674	2.925	4.332
12/31	2.772	0.554	2.256	2.278	4.481	0.96	19.592	1.692	2.626	3.875

Table AE.6: Daily Average Streamflow for 10 years for Gully #64.

Day	Gully #64 Average Daily Streamflow (cms)									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1/1	0.001	0.001	0.002	0.00E+00	0.00E+00	0	0.001	0.002	8.03E-06	0.005
1/2	0.001	0.001	0.001	0.00E+00	0	0.005	0.001	0.001	1.27E-05	0.051
1/3	0.001	0.001	0.001	1.00E-03	0	0.000767	0.001	0.001	1.71E-05	0.02
1/4	0.001	0.001	0.034	1.18E-04	0	0.009	0.001	0.001	2.09E-05	0.002
1/5	0.001	0.000992	0.02	3.00E-02	0	0.000385	0.001	0.001	2.42E-05	0.002
1/6	0.001	0.000978	0.002	8.00E-03	0	0	0.001	0.001	0.000027	0.002
1/7	0.001	0.000964	0.001	0.00E+00	0	0	0.001	0.001	2.94E-05	0.002
1/8	0.001	0.00095	0.001	0.00E+00	0	0	0.000991	0.001	3.15E-05	0.002
1/9	0.001	0.000937	0.001	5.91E-05	0	0.003	0.000977	0.001	3.34E-05	0.001
1/10	0.001	0.000923	0.001	2.10E-05	0	0.02	0.000963	0.001	3.53E-05	0.001
1/11	0.001	0.00091	0.001	0.00E+00	0	0.003	0.000949	0.001	3.69E-05	0.001
1/12	0.001	0.000897	0.001	0.00E+00	0	4.75E-05	0.000936	0.001	3.82E-05	0.001
1/13	0.013	0.000884	0.001	0.00E+00	0	0	0.000923	0.001	3.94E-05	0.001
1/14	0.037	0.000871	0.001	0.00E+00	0	0	0.00091	0.001	4.03E-05	0.001
1/15	0.018	0.000859	0.001	0.00E+00	0	0	0.000897	0.001	4.08E-05	0.001
1/16	0.005	0.000846	0.001	0.00E+00	0	0	0.000884	0.001	4.17E-05	0.001
1/17	0.000974	0.000834	0.001	0.00E+00	0	0	0.000872	0.001	4.22E-05	0.001
1/18	0.000969	0.03	0.001	0.00E+00	0	0	0.000861	0.001	4.26E-05	0.001
1/19	0.003	0.006	0.001	0.00E+00	0	0	0.000849	0.001	4.29E-05	0.001
1/20	0.031	0.000812	0.001	0.00E+00	0	0	0.000837	0.001	4.31E-05	0.001
1/21	0.002	0.000807	0.001	0.00E+00	0	0	0.000826	0.001	4.33E-05	0.001
1/22	0.00095	0.000802	0.011	0.00E+00	0	0	0.000814	0.001	4.33E-05	0.001
1/23	0.000945	0.000796	0.002	0.00E+00	0.009	0	0.000803	0.002	4.33E-05	0.001
1/24	0.00094	0.004	0.001	0.00E+00	0.000823	0	0.000791	0.002	4.33E-05	0.001
1/25	0.000934	0.001	0.001	0.00E+00	0	0	0.000781	0.001	4.32E-05	0.001
1/26	0.000928	0.002	0.001	0.00E+00	0	0	0.000769	0.016	4.31E-05	0.001
1/27	0.000921	0.002	0.001	0.00E+00	0	0	0.000758	0.023	4.29E-05	0.001
1/28	0.000914	0.000776	0.001	0.00E+00	0	0	0.000747	0.018	4.27E-05	0.001
1/29	0.000907	0.000772	0.001	0.00E+00	0	0	0.000736	0.002	4.25E-05	0.001
1/30	0.000899	0.000768	0.001	0.00E+00	0	0	0.000725	0.001	4.22E-05	0.001
1/31	0.000891	0.000764	0.001	0.00E+00	0	0	0.000715	0.001	4.19E-05	0.001
2/1	0.000883	0.00076	0.001	0.00E+00	0	0	0.000705	0.001	4.16E-05	0.001
2/2	0.000875	0.000755	0.001	0.00E+00	0	0	0.000696	0.001	4.13E-05	0.001
2/3	0.000867	0.000749	0.001	0.00E+00	0	0	0.000686	0.001	0.001	0.001
2/4	0.000859	0.000744	0.006	0.00E+00	0	0	0.000676	0.001	0.003	0.001
2/5	0.000851	0.000738	0.005	0.00E+00	0	0	0.000667	0.001	4.12E-05	0.001
2/6	0.000843	0.000732	0.001	0.00E+00	0	0	0.000657	0.001	4.17E-05	0.001
2/7	0.000834	0.000725	0.001	0.00E+00	0	0	0.000648	0.001	4.22E-05	0.001
2/8	0.000825	0.000718	0.001	0.00E+00	0	0	0.000639	0.001	4.16E-05	0.001
2/9	0.000816	0.000889	0.001	0.00E+00	0	0	0.058	0.001	4.27E-05	0.001
2/10	0.000807	0.011	0.001	0.00E+00	0	0	0.002	0.001	0.000043	0.001
2/11	0.000798	0.002	0.001	0.00E+00	0	0	0.000616	0.001	4.31E-05	0.000993
2/12	0.000789	0.000879	0.001	0.00E+00	0	0	0.000611	0.000992	4.31E-05	0.000979
2/13	0.00078	0.000691	0.001	0.00E+00	0	0	0.000605	0.000982	4.32E-05	0.000964
2/14	0.00077	0.000686	0.000994	0.00E+00	0	0	0.000599	0.000971	4.31E-05	0.00095
2/15	0.000761	0.000681	0.000982	0.00E+00	0	0	0.000593	0.00096	0.000043	0.000935
2/16	0.000756	0.00068	0.000977	0.00E+00	0	0	0.00059	0.000956	4.32E-05	0.000928
2/17	0.000755	0.000681	0.000976	3.00E-03	0	0	0.00059	0.000955	4.35E-05	0.000923
2/18	0.000753	0.000682	0.003	1.86E-04	0	0	0.00059	0.000955	4.37E-05	0.000919
2/19	0.003	0.000684	0.014	0.00E+00	0	0	0.00059	0.003	0.000044	0.000915
2/20	0.001	0.000685	0.037	0.00E+00	0	0	0.000589	0.077	4.42E-05	0.00091
2/21	0.000754	0.009	0.103	0.00E+00	0	0	0.000589	0.021	4.44E-05	0.000907
2/22	0.000755	0.017	0.005	0.00E+00	0	0.000106	0.000588	0.001	4.47E-05	0.000904
2/23	0.000755	0.015	0.000974	0.00E+00	0	0.02	0.000587	0.000955	4.51E-05	0.000901
2/24	0.000756	0.051	0.000974	0.00E+00	0	0.041	0.000587	0.008	4.54E-05	0.000898
2/25	0.000757	0.039	0.000974	0.00E+00	0	0.012	0.03	0.018	4.57E-05	0.000895
2/26	0.000758	0.031	0.01	0.00E+00	0	0	0.003	0.002	0.000046	0.000892
2/27	0.000758	0.036	0.019	0.00E+00	0	0	0.000588	0.000956	4.62E-05	0.011
2/28	0.000758	0.002	0.002	0.00E+00	0	0	0.00059	0.000956	4.64E-05	0.029
2/29		0.000699				0				0.051
3/1	7.58E-04	7.00E-04	0.034	0.00E+00	0.00E+00	0.017	5.92E-04	9.57E-04	4.66E-05	0.024
3/2	0.000758	0.000702	0.004	0	0	4.66E-06	0.000594	0.01	4.68E-05	0.023
3/3	0.000758	0.000703	0.000975	0	0	0	0.000595	0.003	0.000047	0.006
3/4	0.000758	0.000705	0.000975	0	0	0	0.000597	0.000965	4.82E-05	0.014
3/5	0.000757	0.000706	0.000975	0	0	0	0.000599	0.000957	4.73E-05	0.057
3/6	0.000756	0.000707	0.000975	0	0	0	0.0006	0.000958	4.74E-05	0.000893
3/7	0.079	0.000708	0.000975	0	0	0	0.000602	0.000958	4.75E-05	0.000893
3/8	0.005	0.000709	0.000975	0	0	0	0.000604	0.044	4.75E-05	0.000894
3/9	0.000757	0.00071	0.000974	0.036	0	0.003	0.000605	0.089	4.76E-05	0.007
3/10	0.000758	0.00071	0.000974	5.65E-06	0	1.26E-05	0.000607	0.004	4.76E-05	0.001
3/11	0.017	0.000711	0.000972	0	0	0	0.000608	0.001	4.77E-05	0.000896
3/12	0.06	0.002	0.000973	0	0	0	0.000609	0.000959	4.77E-05	0.000896
3/13	0.057	0.016	0.000972	0	0	0	0.009	0.013	4.77E-05	0.000897
3/14	0.015	0.021	0.000971	0	0	0.021	0.025	0.019	4.77E-05	0.000897
3/15	0.000764	0.015	0.00097	0	0	0.013	0.024	0.028	0.031	0.00091
3/16	0.000776	0.001	0.000982	0	0	0.005	0.002	0.002	0.075	0.00093
3/17	0.000793	0.002	0.021	0	0	0	0.00064	0.000994	0.048	0.000951
3/18	0.000812	0.019	0.003	0.003	0	0	0.002	0.001	0.022	0.000972
3/19	0.000832	0.038	0.001	0.021	0	0	0.027	0.004	0.019	0.000994
3/20	0.007	0.003	0.001	0.005	0	0.00014	0.035	0.012	0.042	0.006
3/21	0.005	0.000839	0.027	7.14E-06	0	0	0.028	0.002	0.033	0.001
3/22	0.000894	0.000861	0.002	0	0	0	0.008	0.001	0.013	0.001
3/23	0.000916	0.000883	0.001	0	0.007	0	0.006	0.001	0.009	0.001
3/24	0.000939	0.000905	0.001	0	0.000303	0	0.000791	0.001	0.012	0.034
3/25	0.000962	0.055	0.021	0.003	0	0	0.000794	0.001	0.003	0.046
3/26	0.000984	0.004	0.066	0	0	0	0.000817	0.001	0.000101	0.038
3/27	0.001	0.000979	0.066	0	0	0.019	0.00084	0.001	0.000114	0.001
3/28	0.001	0.001	0.075	0	0	0.016	0.000863	0.007	0.002	0.001
3/29	0.001	0.014	0.074	0	0	1.51E-05	0.000886	0.016	0.024	0.002
3/30	0.001	0.048	0.038	0	0	0	0.00091	0.029	0.000168	0.033
3/31	0.001	0.036	0.002	0	0	0	0.000936	0.028	0.000189	0.002

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
4/1	0.001	0.001	0.001	0	0	0	0.000962	0.009	0.003	0.001
4/2	0.001	0.001	0.071	0	0	0	0.000986	0.008	0.000234	0.001
4/3	0.001	0.001	0.061	0	0	0	0.001	0.005	0.002	0.001
4/4	0.001	0.001	0.047	0	0	0.007	0.005	0.002	0.000283	0.001
4/5	0.001	0.001	0.005	0	0	0	0.044	0.002	0.000308	0.001
4/6	0.001	0.001	0.004	0	0	0	0.064	0.002	0.000332	0.001
4/7	0.001	0.001	0.002	0	0	0.000333	0.117	0.005	0.000355	0.002
4/8	0.001	0.001	0.002	0	0	0	0.09	0.103	0.000376	0.002
4/9	0.001	0.001	0.002	0	0	0	0.037	0.055	0.005	0.002
4/10	0.001	0.003	0.002	0	0	0	0.055	0.002	0.001	0.002
4/11	0.001	0.001	0.002	0	0.03	0	0.085	0.002	0.000455	0.002
4/12	0.001	0.04	0.002	0	0.002	0	0.058	0.013	0.000487	0.002
4/13	0.001	0.051	0.002	0	0	0	0.001	0.002	0.000512	0.002
4/14	0.001	0.002	0.002	0	0	0	0.001	0.002	0.00053	0.002
4/15	0.001	0.025	0.002	0	0	0	0.001	0.002	0.000542	0.002
4/16	0.001	0.005	0.002	0	0	0	0.01	0.002	0.000545	0.002
4/17	0.001	0.002	0.002	0	0	0	0.003	0.002	0.000541	0.001
4/18	0.002	0.002	0.002	0	0	0	0.002	0.002	0.000529	0.043
4/19	0.001	0.002	0.002	0	0	0	0.002	0.012	0.000525	0.001
4/20	0.001	0.002	0.002	0	0	0.019	0.002	0.002	0.000522	0.001
4/21	0.035	0.002	0.002	0	0	0.000517	0.002	0.002	0.00052	0.004
4/22	0.001	0.009	0.002	0	0	0	0.002	0.002	0.00052	0.001
4/23	0.001	0.002	0.002	0	0	0	0.002	0.002	0.00052	0.001
4/24	0.001	0.002	0.002	0	0	0	0.002	0.002	0.000512	0.001
4/25	0.001	0.003	0.002	0	0	0	0.002	0.002	0.000491	0.001
4/26	0.001	0.002	0.002	0	0	0	0.002	0.002	0.000466	0.001
4/27	0.002	0.002	0.002	0	0	0	0.002	0.002	0.00044	0.001
4/28	0.002	0.002	0.002	0	0	0	0.002	0.002	0.000414	0.001
4/29	0.002	0.002	0.002	0	0	0	0.002	0.002	0.000389	0.001
4/30	0.002	0.002	0.002	0	0	0	0.002	0.002	0.000363	0.001
5/1	0.002	0.002	0.001	0	0	0	0.001	0.002	0.006	0.001
5/2	0.002	0.002	0.001	0	0	0	0.001	0.002	0.013	0.003
5/3	0.002	0.002	0.006	0	0	0	0.001	0.002	0.000472	0.001
5/4	0.002	0.002	0.001	0	0	0	0.001	0.002	0.000524	0.001
5/5	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000545	0.002
5/6	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000594	0.002
5/7	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000646	0.002
5/8	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000664	0.002
5/9	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000659	0.002
5/10	0.001	0.002	0.002	0	0	0	0.001	0.002	0.000635	0.002
5/11	0.001	0.002	0.002	0	0	0	0.001	0.002	0.001	0.002
5/12	0.001	0.002	0.002	0	0	0.045	0.001	0.002	0.011	0.002
5/13	0.001	0.002	0.002	0	0	0.005	0.001	0.002	0.002	0.002
5/14	0.001	0.002	0.002	0	0	0	0.001	0.002	0.001	0.002
5/15	0.001	0.002	0.002	0	0	0	0.001	0.002	0.001	0.002
5/16	0.001	0.002	0.002	0	0	0	0.001	0.01	0.001	0.002
5/17	0.001	0.002	0.002	0	0	0	0.001	0.002	0.001	0.002

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
5/18	0.001	0.002	0.002	0	0	0.06	0.000991	0.002	0.001	0.002
5/19	0.001	0.002	0.002	0	0	0	0.000956	0.002	0.001	0.002
5/20	0.001	0.03	0.002	0	0	0	0.00092	0.002	0.001	0.002
5/21	0.001	0.017	0.002	0	0	0	0.000885	0.002	0.001	0.002
5/22	0.001	0.002	0.002	0	0	0	0.000861	0.002	0.001	0.03
5/23	0.000978	0.002	0.002	0	0	2.37E-05	0.000879	0.002	0.000978	0.028
5/24	0.000953	0.002	0.002	0	0	7.16E-06	0.000899	0.002	0.001	0.028
5/25	0.000929	0.002	0.002	0	0	0.000032	0.000914	0.002	0.001	0.002
5/26	0.000898	0.002	0.002	0	0	6.77E-05	0.000968	0.002	0.001	0.002
5/27	0.000863	0.002	0.001	0	0	7.59E-05	0.001	0.002	0.001	0.002
5/28	0.000829	0.002	0.001	0	0	6.29E-05	0.001	0.002	0.001	0.002
5/29	0.000803	0.002	0.001	0	0	0.000044	0.001	0.002	0.001	0.002
5/30	0.000781	0.002	0.001	0	0	0.000023	0.001	0.002	0.001	0.002
5/31	0.000752	0.002	0.001	0	0	6.7E-06	0.001	0.002	0.001	0.002
6/1	0.000718	0.002	0.001	0	0	6.51E-07	0.000977	0.002	0.001	0.002
6/2	0.024	0.002	0.001	0	0	5.91E-08	0.000945	0.002	0.001	0.002
6/3	0.049	0.002	0.001	0	0	5.36E-09	0.000913	0.002	0.001	0.002
6/4	0.000879	0.002	0.001	0	0	4.86E-10	0.000885	0.002	0.000981	0.002
6/5	0.000968	0.002	0.001	0	0	4.41E-11	0.000852	0.002	0.000981	0.002
6/6	0.000986	0.002	0.001	0	0	4E-12	0.000815	0.001	0.000998	0.002
6/7	0.000966	0.002	0.000932	0	0	3.63E-13	0.000778	0.001	0.000991	0.001
6/8	0.00093	0.002	0.000866	0	0	3.29E-14	0.000741	0.001	0.000965	0.001
6/9	0.000891	0.002	0.00082	0	0	2.99E-15	0.000704	0.001	0.001	0.001
6/10	0.000853	0.002	0.000782	0	0	2.71E-16	0.000671	0.001	0.001	0.001
6/11	0.000815	0.002	0.000732	0	0	2.46E-17	0.00066	0.001	0.001	0.001
6/12	0.000777	0.002	0.000669	0	0	2.23E-18	0.000672	0.001	0.001	0.001
6/13	0.00074	0.002	0.000616	0	0	0.034	0.00066	0.001	0.001	0.001
6/14	0.000702	0.002	0.000552	0	0	0.00015	0.000627	0.001	0.001	0.001
6/15	0.000665	0.002	0.000486	0	0	0.000036	0.000591	0.001	0.000994	0.001
6/16	0.000628	0.002	0.000422	0	0	0.000101	0.000562	0.001	0.000956	0.001
6/17	0.000585	0.002	0.00038	0	0	0.000124	0.000557	0.001	0.000916	0.001
6/18	0.000523	0.002	0.000345	0	0	0.000118	0.00058	0.001	0.000876	0.001
6/19	0.000455	0.002	0.000304	0	0	0.000106	0.000574	0.001	0.000875	0.001
6/20	0.000388	0.002	0.000251	0	0	8.62E-05	0.000544	0.001	0.000898	0.000996
6/21	0.000321	0.002	0.001	0	0	7.18E-05	0.000512	0.001	0.000885	0.000956
6/22	0.000253	0.002	0.000389	0	0	8.82E-05	0.003	0.001	0.000849	0.000959
6/23	0.000194	0.002	0.00046	0	0	8.82E-05	0.000702	0.001	0.00081	0.000999
6/24	0.000256	0.002	0.000483	0	0	7.07E-05	0.000761	0.001	0.00077	0.001
6/25	0.025	0.002	0.000465	0	0	0.084	0.000757	0.001	0.00073	0.001
6/26	0.000476	0.002	0.00043	0	0	0.000204	0.000723	0.001	0.000691	0.001
6/27	0.000585	0.002	0.000393	0	0	0.000298	0.000684	0.001	0.000658	0.001
6/28	0.000675	0.002	0.000356	0	0	0.000335	0.000645	0.001	0.000621	0.001
6/29	0.00073	0.002	0.00032	0	0	0.000338	0.000605	0.001	0.000582	0.000992
6/30	0.000757	0.002	0.000283	0	0	0.000353	0.000566	0.000983	0.000543	0.00095
7/1	0.000763	0.002	0.000251	0	0	0.00034	0.000537	0.000941	0.000504	0.000908
7/2	0.000746	0.002	0.000222	0	0	0.000306	0.000528	0.000898	0.000467	0.000865
7/3	0.000709	0.002	0.000188	0	0	0.000274	0.000505	0.000856	0.000427	0.000823

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
7/4	0.000669	0.002	0.000163	0	0	0.000242	0.000475	0.000814	0.000389	0.000782
7/5	0.000628	0.001	0.000149	0	0	0.000206	0.000438	0.000772	0.000337	0.000747
7/6	0.000588	0.001	0.000136	0	0	0.000169	0.000399	0.000731	0.000287	0.000707
7/7	0.000555	0.001	0.000126	0	0	0.000134	0.000362	0.000689	0.00024	0.000682
7/8	0.000548	0.001	0.000116	0	0	0.000107	0.000332	0.000642	0.000212	0.00068
7/9	0.000554	0.001	0.000107	0	0	8.73E-05	0.000295	0.000595	0.000176	0.000658
7/10	0.000537	0.001	9.69E-05	0	0	0.000111	0.000257	0.000558	0.000141	0.00062
7/11	0.0005	0.001	8.43E-05	0	0	0.000121	0.000219	0.000512	0.000118	0.000579
7/12	0.00046	0.001	7.16E-05	0	0	0.000103	0.000181	0.000445	0.000109	0.000538
7/13	0.00042	0.001	5.88E-05	0	0	7.89E-05	0.000141	0.00037	0.000121	0.000497
7/14	0.000416	0.001	4.76E-05	0	0	0.000058	0.000105	0.000294	0.000106	0.019
7/15	0.000416	0.001	4.32E-05	0	0	7.39E-05	7.83E-05	0.00022	8.47E-05	0.000578
7/16	0.000388	0.001	4.31E-05	0	0	8.02E-05	5.74E-05	0.000171	7.86E-05	0.000644
7/17	0.000355	0.000995	3.91E-05	0	0	6.07E-05	3.83E-05	0.000143	7.59E-05	0.000667
7/18	0.000334	0.000955	0.000028	0	0	5.91E-05	1.46E-05	0.00012	6.59E-05	0.000655
7/19	0.000317	0.000922	1.58E-05	0	0	5.31E-05	1.74E-06	0.000106	5.36E-05	0.000668
7/20	0.000301	0.000891	4.39E-06	0	0	0.000036	1.58E-07	8.48E-05	4.19E-05	0.000668
7/21	0.000352	0.000852	4.3E-07	0	0	1.87E-05	0.025	6.02E-05	3.33E-05	0.00064
7/22	0.000364	0.000813	3.9E-08	0	0	3.81E-06	0.000243	0.000036	2.27E-05	0.000602
7/23	0.000358	0.000776	3.54E-09	0	0	3.47E-07	1.18E-10	2.29E-05	1.18E-05	0.000563
7/24	0.000429	0.00074	3.21E-10	0	0	3.14E-08	1.07E-11	1.23E-05	5.83E-06	0.000525
7/25	0.00046	0.000701	2.91E-11	0	0	2.85E-09	9.71E-13	2.6E-06	8.46E-07	0.000487
7/26	0.000441	0.000663	2.64E-12	0	0	2.59E-10	8.81E-14	2.37E-07	0	0.000448
7/27	0.000405	0.000628	2.4E-13	0	0	2.35E-11	8E-15	2.15E-08	0	0.000413
7/28	0.000368	0.00059	2.18E-14	0	0	2.13E-12	7.25E-16	1.95E-09	0	0.000388
7/29	0.000349	0.000554	1.97E-15	0	0	1.93E-13	6.58E-17	1.77E-10	0	0.000353
7/30	0.000323	0.000528	1.79E-16	0	0	1.75E-14	5.97E-18	1.61E-11	0	0.000316
7/31	0.000287	0.000519	1.62E-17	0	0	1.59E-15	5.42E-19	0	0	0.000281
8/1	0.00025	0.000512	1.47E-18	0	0	0.013	4.91E-20	0	0	0.000248
8/2	0.000213	0.00048	0	0	0	0.000109	4.46E-21	0	0	0.000211
8/3	0.000178	0.000442	0	0	0	0.00015	4.04E-22	0	0.005	0.00018
8/4	0.000198	0.000404	0	0	0	0.000147	3.67E-23	0	1.14E-05	0.000156
8/5	0.000292	0.000367	0	0	0	0.000123	0	0	3.79E-05	0.000145
8/6	0.000475	0.000329	0	0	0	9.94E-05	0	0	4.26E-05	0.000132
8/7	0.000585	0.000292	0	0	0	8.06E-05	0	0	3.88E-05	0.00012
8/8	0.000599	0.000264	0	0	0	6.22E-05	0	0	2.79E-05	0.000107
8/9	0.000571	0.000241	0	0	0	0.000048	0	0	1.61E-05	0.000095
8/10	0.000533	0.000214	0	0	0	2.97E-05	0	0	5.15E-06	8.33E-05
8/11	0.018	0.000196	0	0	0	8.58E-06	0	0	5.38E-07	7.29E-05
8/12	0.000685	0.000183	0	0	0	8.4E-07	0	0	4.88E-08	6.66E-05
8/13	0.000836	0.00017	0	0	0	7.62E-08	0	0	4.43E-09	5.58E-05
8/14	0.000882	0.000151	0	0	0	6.92E-09	0	0	4.02E-10	4.67E-05
8/15	0.000942	0.000131	0	0	0	6.27E-10	0	0	3.65E-11	3.75E-05
8/16	0.000962	0.000111	0	0	0	9.94E-06	0	0	3.31E-12	1.83E-05
8/17	0.00094	8.76E-05	0	0	0	0.000179	0	0	3E-13	2.89E-06
8/18	0.000906	6.48E-05	0	0	0	0.000385	0	0	2.72E-14	2.62E-07
8/19	0.000872	4.19E-05	0	0	0	0.000454	0.026	0	0	2.38E-08

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
8/20	0.000833	1.94E-05	0	0	0	0.000457	0.002	0	0	2.16E-09
8/21	0.000794	3.76E-06	0	0	0	0.000428	0	0	0	1.96E-10
8/22	0.000755	3.42E-07	0	0	0	0.000393	0	0	0	1.78E-11
8/23	0.000716	3.1E-08	0	0	0	0.000433	0	0	0	1.61E-12
8/24	0.000678	2.81E-09	0	0	0	0.000538	0	0	0	1.46E-13
8/25	0.000641	2.55E-10	0	0	0	0.000564	0	0	0	1.33E-14
8/26	0.000604	2.31E-11	0	0	0	0.000547	0	0	0	1.2E-15
8/27	0.000567	0.019	0	0	0	0.000518	0	0	0	1.09E-16
8/28	0.000531	2.59E-06	0	0	0	0.000487	0	0	0	9.91E-18
8/29	0.000489	7.38E-06	0	0	0	0.000452	0	0	0	8.99E-19
8/30	0.000431	7.48E-06	0	0	0	0.000417	0	0	0	8.15E-20
8/31	0.000375	3.92E-06	0	0	0	0.000382	0	0	0	7.4E-21
9/1	0.000336	3.61E-07	0	0	0	0.000348	0	0	0	6.71E-22
9/2	0.00028	3.28E-08	0	0	0	0.000326	0	0	0	6.09E-23
9/3	0.000217	2.97E-09	0	0	0	0.000407	0	0	0	5.52E-24
9/4	0.000154	2.7E-10	0	0	0	0.000468	0	0	0	5.01E-25
9/5	9.82E-05	2.45E-11	0	0	0	0.000477	0	0	0	4.54E-26
9/6	6.85E-05	2.22E-12	0	0	0	0.000457	0	0	0	0
9/7	0.000053	0.005	0	0	0	0.000425	0	0	0	0.004
9/8	4.66E-05	0.007	0	0	0	0.000393	0	0	0	0
9/9	3.72E-05	0.000103	0	0	0	0.000361	0	0	0	0
9/10	2.72E-05	0.000198	0	0	0	0.000329	0	0	0	0
9/11	1.75E-05	0.00029	0	0	0	0.000301	0	0	0	0
9/12	8.37E-06	0.000363	0	0	0	0.000275	0	0	0	0
9/13	1.47E-06	0.007	0	0	0	0.000262	0	0	0	0
9/14	1.33E-07	0.13	0	0	0	0.002	0	0	0	0
9/15	1.21E-08	0.01	0	0	0	0.041	0	0	0	0
9/16	1.1E-09	0.001	0	0	0	0.002	0	0	0	0
9/17	9.94E-11	0.001	0	0	0	0.000768	0	0	0	0
9/18	9.02E-12	0.001	0	0	0	0.000874	0	0	0	0
9/19	8.18E-13	0.001	0	0	0	0.00091	0	0	0.000997	0
9/20	7.42E-14	0.001	0	0	0	0.00091	0	0	0	0
9/21	6.73E-15	0.001	0	0	0	0.000964	0.007	0	0	0
9/22	6.11E-16	0.001	0	0	0	0.001	0.00024	0	0.007	0
9/23	5.54E-17	0.001	0	0	0	0.005	0	0	0.000251	0
9/24	5.03E-18	0.001	0	0	0	0.001	0	0	0	0
9/25	4.56E-19	0.000986	0	0	0	0.001	0	0	0.001	0
9/26	4.14E-20	0.000948	0	0	0	0.002	0.031	0	0	0
9/27	3.75E-21	0.000911	0	0	0	0.002	0.028	0	4.98E-06	0
9/28	3.4E-22	0.000875	0	0	0	0.002	0	0	2.81E-05	0
9/29	3.09E-23	0.00084	0	0	0	0.001	0	0	0.000065	0
9/30	0	0.000808	0.004	0	0	0.001	0	0	0.000117	0
10/1	0	0.000783	0.00011	0	0	0.001	0	0	0.03	0
10/2	0	0.000758	0	0	0	0.001	0	0	0.006	0
10/3	0	0.000737	0	0	0	0.001	0	0	0.003	0
10/4	0	0.000711	0	0	0	0.001	0	0	0.017	0
10/5	0.007	0.000682	0	0	0	0.001	0.002	0	0.000908	0

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
10/6	0.008	0.000654	0	0	0	0.001	0.039	0	0.001	0
10/7	0	0.000627	0	0	0	0.01	0.002	0	0.001	0
10/8	0	0.000601	0	0	0	0.002	0.000038	0	0.001	0
10/9	0	0.000575	0	0	0	0.001	7.41E-05	0	0.001	0
10/10	0	0.000552	0	0	0	0.001	8.85E-05	0	0.001	0
10/11	0	0.000534	0	0	0	0.002	9.32E-05	0	0.001	0
10/12	0	0.000513	0	0	0	0.001	0.000115	0	0.001	0
10/13	0	0.000492	0	0	0	0.001	0.00013	0	0.001	0
10/14	0	0.000476	0	0	0	0.001	0.000136	0	0.001	0
10/15	0	0.000458	0	0	0	0.001	0.000171	0	0.001	0
10/16	0	0.000438	0	0	0	0.001	0.013	0	0.001	0
10/17	0	0.000418	0	0	0	0.001	0.012	0	0.001	0
10/18	5.84E-07	0.042	0	0	0	0.001	0.000479	0	0.001	0
10/19	1.32E-06	0.000521	0	0	0	0.001	0.000565	0	0.001	0
10/20	1.39E-06	0.000617	0	0	0	0.001	0.000608	0	0.001	0
10/21	1.37E-06	0.000699	0	0	0	0.001	0.000637	0	0.001	0
10/22	6.93E-06	0.000741	0	0	0	0.001	0.000648	0	0.001	0
10/23	3.09E-05	0.000756	0	0	0	0.001	0.000654	0	0.001	0
10/24	4.82E-05	0.000757	0	0	0	0.001	0.004	0	0.001	0
10/25	5.52E-05	0.000768	0	0	0	0.001	0.003	0	0.001	0
10/26	5.59E-05	0.000781	0	0	0	0.001	0.004	0	0.001	0
10/27	0.002	0.000782	0	0	0	0.001	0.001	0	0.001	0
10/28	0.001	0.000774	0	0	0	0.001	0.001	0	0.001	0
10/29	0.003	0.000762	0	0	0	0.001	0.001	0	0.001	0
10/30	0.000327	0.000747	0	0	0	0.001	0.001	0	0.001	0
10/31	0.000405	0.000742	0	0	0	0.000981	0.001	0	0.001	0
11/1	0.00046	0.000742	0	0	0	0.000955	0.001	0	0.001	0
11/2	0.001	0.000739	0	0	0.079	0.000931	0.006	0	0.011	0.014
11/3	0.000609	0.000736	0	0	0.022	0.000912	0.001	0	0.005	0
11/4	0.000683	0.00077	0	0	0.002	0.000897	0.001	0	0.001	0.004
11/5	0.000738	0.00082	0	0	0	0.000882	0.001	0	0.001	0.000191
11/6	0.000769	0.000857	0	0	0	0.000862	0.001	0	0.001	0
11/7	0.00079	0.000877	0	0	0	0.00084	0.001	0	0.001	0
11/8	0.00083	0.028	0	0	0	0.000819	0.001	0	0.002	3.37E-07
11/9	0.000879	0.00096	0	0	0	0.000801	0.001	0	0.001	6.65E-06
11/10	0.000928	0.001	0	0	0	0.000799	0.001	0	0.001	2.04E-05
11/11	0.085	0.001	0	0	0	0.00083	0.001	0	0.001	0.000034
11/12	0.003	0.001	0	0	0	0.000855	0.001	0	0.001	4.21E-05
11/13	0.001	0.001	0	0	0	0.000869	0.001	0	0.001	4.57E-05
11/14	0.001	0.001	0	0	0	0.000876	0.001	0	0.001	4.65E-05
11/15	0.001	0.001	0	0	0	0.000891	0.001	0	0.001	4.62E-05
11/16	0.001	0.001	0	0	0	0.00091	0.001	0	0.001	4.59E-05
11/17	0.001	0.001	0	0	0	0.000937	0.001	0	0.001	0.000047
11/18	0.001	0.001	0	0	0	0.000973	0.001	0	0.001	4.53E-05

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
11/19	0.001	0.001	0	0	0	0.001	0.001	0	0.001	4.48E-05
11/20	0.001	0.001	0	0	0	0.001	0.001	0	0.002	4.45E-05
11/21	0.001	0.001	0	0	0	0.001	0.001	0	0.002	4.53E-05
11/22	0.001	0.001	0	0	0	0.001	0.001	0	0.002	4.65E-05
11/23	0.001	0.001	0	0	0	0.001	0.001	0	0.002	4.69E-05
11/24	0.001	0.001	0	0	0	0.001	0.001	0	0.002	4.97E-05
11/25	0.001	0.001	0	0	0	0.001	0.001	0	0.002	5.53E-05
11/26	0.001	0.001	0	0	0	0.001	0.001	0	0.002	6.16E-05
11/27	0.001	0.001	0	0	0	0.002	0.007	0	0.002	6.71E-05
11/28	0.001	0.001	0	0	0	0.024	0.001	0	0.002	7.39E-05
11/29	0.001	0.001	0	0	0	0.007	0.002	0	0.002	8.27E-05
11/30	0.001	0.001	0	0	0	0.001	0.002	0	0.002	9.05E-05
12/1	0.001	0.033	0	0	0	0.001	0.002	0	0.002	0.000669
12/2	0.001	0.003	0	0	0	0.001	0.002	0	0.002	0.000122
12/3	0.001	0.001	0	0	0.011	0.001	0.002	0	0.002	0.000157
12/4	0.001	0.001	0	0	0.001	0.001	0.002	0	0.002	0.003
12/5	0.001	0.001	0	0	0.013	0.001	0.002	0	0.002	0.001
12/6	0.001	0.002	0	0	0.002	0.001	0.002	0	0.002	0.000286
12/7	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.029
12/8	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.001
12/9	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000358
12/10	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000387
12/11	0.001	0.002	0	0	0	0.001	0.002	0	0.005	0.000414
12/12	0.001	0.005	0	0	0	0.001	0.002	0	0.002	0.00044
12/13	0.001	0.006	0	0	0	0.001	0.002	0	0.002	0.000463
12/14	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000482
12/15	0.001	0.007	0	0	0.013	0.001	0.002	0	0.002	0.000495
12/16	0.001	0.002	0	0	0.001	0.001	0.002	0	0.002	0.000508
12/17	0.001	0.044	0	0	0	0.001	0.008	0	0.002	0.000519
12/18	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000529
12/19	0.001	0.002	0	0	0	0.001	0.003	0.017	0.002	0.000538
12/20	0.001	0.002	0	0	0.001	0.001	0.013	0.012	0.002	0.000545
12/21	0.001	0.002	0	0	2.36E-05	0.001	0.002	0.000378	0.002	0.000551
12/22	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000556
12/23	0.001	0.02	0	0	0	0.001	0.013	0	0.002	0.00056
12/24	0.001	0.008	0	0	0	0.001	0.002	0	0.002	0.000563
12/25	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000566
12/26	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000568
12/27	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000569
12/28	0.001	0.002	0	0	0	0.001	0.002	0	0.002	0.000569
12/29	0.001	0.002	0	0	0	0.001	0.002	0	0.067	0.000569
12/30	0.001	0.002	0	0	0	0.001	0.002	5.5E-07	0.007	0.000569
12/31	0.001	0.002	0.00E+00	0	0	0.001	0.002	3.68E-06	0.011	0.007

Table AE.7: Daily Average Streamflow for 10 years for Gully #65.

Day	Gully #65 Average Daily Streamflow (cms)									
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
1/1	0.05	0.043	0.07	3.22E-04	0.00E+00	0.02	0.041	0.067	0.012	0.118
1/2	0.048	0.041	0.067	3.12E-04	0	0.051	0.039	0.064	0.012	0.769
1/3	0.047	0.04	0.066	1.10E-02	0	0.062	0.038	0.063	0.012	0.625
1/4	0.046	0.039	0.453	1.40E-02	0	0.102	0.037	0.062	0.012	0.113
1/5	0.046	0.039	0.476	3.83E-01	0	0.073	0.037	0.061	0.013	0.06
1/6	0.045	0.038	0.113	3.58E-01	0	0.02	0.036	0.06	0.013	0.059
1/7	0.044	0.037	0.066	6.00E-03	0	0.02	0.035	0.059	0.013	0.059
1/8	0.044	0.036	0.065	4.18E-04	0	0.02	0.035	0.058	0.013	0.059
1/9	0.043	0.036	0.065	4.71E-04	0	0.028	0.034	0.057	0.013	0.059
1/10	0.042	0.035	0.065	6.72E-04	0	0.24	0.033	0.057	0.013	0.059
1/11	0.042	0.034	0.064	5.03E-04	0	0.091	0.033	0.056	0.013	0.059
1/12	0.041	0.034	0.064	5.69E-04	0	0.027	0.032	0.055	0.012	0.058
1/13	0.152	0.033	0.063	6.39E-04	0	0.02	0.032	0.055	0.012	0.058
1/14	0.566	0.033	0.063	7.13E-04	0	0.02	0.031	0.054	0.012	0.057
1/15	0.565	0.032	0.062	7.88E-04	0	0.02	0.03	0.053	0.012	0.057
1/16	0.123	0.031	0.061	8.65E-04	0	0.02	0.03	0.053	0.012	0.056
1/17	0.042	0.031	0.061	9.40E-04	0	0.02	0.029	0.052	0.012	0.056
1/18	0.041	0.385	0.06	1.00E-03	0	0.02	0.029	0.051	0.012	0.055
1/19	0.047	0.325	0.059	1.00E-03	0	0.02	0.028	0.051	0.012	0.054
1/20	0.384	0.037	0.059	1.00E-03	0	0.02	0.028	0.05	0.012	0.054
1/21	0.217	0.03	0.058	1.00E-03	0	0.02	0.027	0.049	0.011	0.053
1/22	0.046	0.03	0.12	1.00E-03	0	0.02	0.027	0.048	0.011	0.052
1/23	0.041	0.03	0.102	1.00E-03	0.075	0.02	0.026	0.052	0.011	0.052
1/24	0.041	0.047	0.058	1.00E-03	0.069	0.02	0.026	0.061	0.011	0.051
1/25	0.041	0.052	0.056	2.00E-03	0.002	0.02	0.026	0.047	0.011	0.05
1/26	0.041	0.032	0.055	2.00E-03	2.32E-05	0.02	0.025	0.146	0.011	0.05
1/27	0.041	0.04	0.055	2.00E-03	0	0.019	0.025	0.31	0.011	0.049
1/28	0.041	0.03	0.054	2.00E-03	0	0.019	0.024	0.325	0.01	0.048
1/29	0.041	0.03	0.054	2.00E-03	0	0.019	0.024	0.132	0.01	0.048
1/30	0.041	0.03	0.053	2.00E-03	0	0.019	0.023	0.048	0.01	0.047
1/31	0.04	0.03	0.053	2.00E-03	0	0.019	0.023	0.045	0.01	0.046
2/1	0.04	0.03	0.052	2.00E-03	0	0.019	0.022	0.045	0.01	0.045
2/2	0.04	0.03	0.051	2.00E-03	0	0.018	0.022	0.045	0.01	0.045
2/3	0.04	0.029	0.051	2.00E-03	0	0.018	0.022	0.045	0.014	0.044
2/4	0.039	0.029	0.072	2.00E-03	0	0.018	0.021	0.044	0.066	0.043
2/5	0.039	0.029	0.116	2.00E-03	0	0.018	0.021	0.044	0.011	0.043
2/6	0.039	0.029	0.054	2.00E-03	0	0.017	0.021	0.044	0.009	0.042
2/7	0.038	0.029	0.049	2.00E-03	0	0.017	0.02	0.043	0.009	0.041
2/8	0.038	0.028	0.048	2.00E-03	0	0.017	0.02	0.043	0.009	0.041
2/9	0.038	0.028	0.048	2.00E-03	0	0.017	0.877	0.043	0.009	0.04
2/10	0.037	0.086	0.047	2.00E-03	0	0.017	0.455	0.042	0.009	0.039
2/11	0.037	0.072	0.047	2.00E-03	0	0.016	0.034	0.042	0.009	0.039
2/12	0.036	0.032	0.046	2.00E-03	0	0.016	0.02	0.041	0.009	0.038
2/13	0.036	0.028	0.046	2.00E-03	0	0.016	0.019	0.041	0.009	0.037
2/14	0.035	0.028	0.045	2.00E-03	0	0.016	0.019	0.041	0.009	0.037
2/15	0.035	0.027	0.044	2.00E-03	0	0.015	0.019	0.04	0.008	0.036
2/16	0.035	0.027	0.044	2.00E-03	0	0.015	0.019	0.04	0.008	0.036
2/17	0.034	0.027	0.044	1.90E-02	0	0.015	0.019	0.04	0.008	0.035
2/18	0.034	0.027	0.048	2.40E-02	0	0.015	0.019	0.04	0.008	0.035
2/19	0.044	0.028	0.138	3.00E-03	0	0.015	0.019	0.043	0.008	0.035
2/20	0.051	0.028	0.539	2.00E-03	0	0.014	0.019	1.186	0.008	0.034
2/21	0.035	0.065	2.096	2.00E-03	0	0.014	0.019	0.673	0.008	0.034
2/22	0.034	0.187	0.651	2.00E-03	0	0.015	0.019	0.139	0.008	0.034
2/23	0.034	0.254	0.07	2.00E-03	0	0.241	0.019	0.044	0.008	0.033
2/24	0.034	0.911	0.045	2.00E-03	0	0.583	0.019	0.083	0.008	0.033
2/25	0.034	0.888	0.044	2.00E-03	0	0.473	0.364	0.246	0.008	0.033
2/26	0.034	0.726	0.105	2.00E-03	0	0.04	0.269	0.188	0.008	0.033
2/27	0.034	0.877	0.322	2.00E-03	0	0.016	0.03	0.047	0.008	0.119
2/28	0.034	0.277	0.122	2.00E-03	0	0.015	0.02	0.041	0.008	0.364
2/29		0.04				0.015				0.996
3/1	0.033	0.031	0.454	0.002	0.00E+00	0.23	0.02	0.041	0.008	0.545
3/2	0.033	0.031	0.355	0.002	0	0.072	0.02	0.087	0.007	0.507
3/3	0.033	0.031	0.058	0.002	0	0.018	0.02	0.134	0.007	0.184
3/4	0.033	0.031	0.046	0.002	0	0.017	0.02	0.046	0.007	0.228
3/5	0.033	0.032	0.045	0.002	0	0.017	0.02	0.042	0.007	1.406
3/6	0.033	0.032	0.045	0.002	0	0.017	0.02	0.042	0.007	0.157
3/7	1.198	0.032	0.045	0.002	0	0.017	0.02	0.042	0.007	0.039
3/8	0.652	0.033	0.046	0.002	0	0.017	0.021	0.531	0.007	0.035
3/9	0.056	0.033	0.046	0.617	0	0.039	0.021	1.697	0.007	0.07
3/10	0.034	0.033	0.046	0.13	0	0.029	0.021	0.817	0.007	0.057
3/11	0.14	0.033	0.046	0.007	0	0.018	0.021	0.068	0.007	0.037
3/12	1.09	0.037	0.046	0.003	0	0.018	0.021	0.045	0.007	0.036
3/13	1.249	0.197	0.046	0.003	0	0.018	0.063	0.128	0.007	0.036
3/14	0.667	0.27	0.046	0.003	0	0.207	0.268	0.371	0.007	0.037
3/15	0.062	0.348	0.046	0.003	0	0.218	0.402	0.557	0.369	0.037
3/16	0.036	0.112	0.046	0.003	0	0.223	0.192	0.299	1.484	0.038
3/17	0.035	0.041	0.23	0.003	0	0.028	0.028	0.054	1.19	0.039
3/18	0.036	0.237	0.232	0.015	0	0.021	0.029	0.048	0.529	0.04
3/19	0.037	0.69	0.055	0.17	0	0.022	0.311	0.056	0.341	0.041
3/20	0.081	0.312	0.05	0.202	0	0.023	0.684	0.146	0.81	0.062
3/21	0.103	0.05	0.28	0.015	1.29E-09	0.024	0.617	0.113	0.776	0.061
3/22	0.041	0.044	0.202	0.005	2.96E-07	0.025	0.267	0.055	0.424	0.045
3/23	0.042	0.045	0.058	0.005	0.051	0.025	0.124	0.055	0.173	0.046
3/24	0.044	0.047	0.055	0.006	0.049	0.026	0.055	0.057	0.262	0.326
3/25	0.045	0.749	0.32	0.021	0.002	0.027	0.035	0.058	0.08	1.056
3/26	0.046	0.429	1.404	0.013	5.92E-05	0.028	0.036	0.06	0.022	0.715
3/27	0.047	0.063	1.146	0.008	0.000048	0.317	0.038	0.061	0.019	0.164
3/28	0.048	0.055	1.752	0.008	7.01E-05	0.22	0.039	0.117	0.024	0.058
3/29	0.049	0.127	1.815	0.008	9.47E-05	0.081	0.041	0.172	0.324	0.058
3/30	0.05	0.71	1.172	0.009	0.000121	0.033	0.043	0.405	0.067	0.453
3/31	0.05	0.908	0.214	0.009	0.000148	0.033	0.044	0.538	0.028	0.145
4/1	0.051	0.169	0.077	0.009	0.000175	0.034	0.046	0.266	0.048	0.068
4/2	0.051	0.07	0.983	0.01	0.000201	0.035	0.047	0.153	0.037	0.067

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
4/3	0.052	0.07	1.525	0.01	0.000225	0.035	0.048	0.122	0.046	0.069
4/4	0.052	0.072	1.415	0.01	0.000247	0.103	0.059	0.09	0.039	0.071
4/5	0.053	0.074	0.214	0.01	0.000269	0.057	0.47	0.083	0.037	0.072
4/6	0.053	0.075	0.108	0.01	0.00029	0.039	1.107	0.085	0.039	0.073
4/7	0.054	0.077	0.099	0.011	0.00031	0.041	2.388	0.094	0.04	0.074
4/8	0.055	0.078	0.094	0.01	0.000327	0.041	2.296	1.328	0.041	0.075
4/9	0.055	0.08	0.096	0.01	0.00034	0.041	1.196	1.689	0.072	0.076
4/10	0.056	0.086	0.098	0.01	0.000349	0.042	1.055	0.327	0.064	0.076
4/11	0.056	0.085	0.1	0.01	0.38	0.043	1.834	0.109	0.047	0.076
4/12	0.056	0.447	0.102	0.01	0.153	0.043	1.837	0.201	0.048	0.076
4/13	0.056	1.044	0.103	0.01	0.008	0.044	0.225	0.18	0.048	0.075
4/14	0.057	0.238	0.105	0.009	0.000708	0.045	0.091	0.11	0.049	0.075
4/15	0.058	0.285	0.106	0.009	0.000569	0.045	0.089	0.109	0.049	0.074
4/16	0.058	0.28	0.105	0.009	0.000664	0.045	0.128	0.11	0.049	0.072
4/17	0.057	0.11	0.105	0.008	0.000762	0.045	0.145	0.11	0.048	0.071
4/18	0.065	0.104	0.104	0.008	0.000859	0.044	0.097	0.11	0.047	0.882
4/19	0.06	0.106	0.102	0.007	0.00095	0.043	0.097	0.263	0.046	0.186
4/20	0.057	0.107	0.1	0.007	0.001	0.231	0.097	0.119	0.046	0.074
4/21	0.566	0.109	0.099	0.007	0.001	0.215	0.097	0.111	0.045	0.092
4/22	0.15	0.162	0.097	0.006	0.001	0.052	0.098	0.11	0.045	0.072
4/23	0.066	0.126	0.095	0.006	0.001	0.046	0.099	0.11	0.044	0.068
4/24	0.063	0.113	0.093	0.006	0.001	0.045	0.098	0.109	0.044	0.067
4/25	0.063	0.117	0.091	0.005	0.001	0.045	0.097	0.108	0.042	0.066
4/26	0.063	0.124	0.089	0.005	0.001	0.044	0.095	0.107	0.041	0.066
4/27	0.065	0.114	0.087	0.004	0.001	0.042	0.094	0.105	0.04	0.066
4/28	0.068	0.114	0.086	0.004	0.001	0.041	0.093	0.104	0.038	0.065
4/29	0.069	0.113	0.084	0.004	0.001	0.04	0.092	0.106	0.037	0.064
4/30	0.069	0.115	0.082	0.004	0.001	0.039	0.09	0.107	0.036	0.062
5/1	0.067	0.114	0.08	0.004	0.001	0.037	0.089	0.106	0.092	0.06
5/2	0.066	0.115	0.078	0.004	0.001	0.036	0.087	0.105	0.23	0.069
5/3	0.064	0.115	0.124	0.004	0.001	0.035	0.085	0.105	0.051	0.069
5/4	0.063	0.114	0.088	0.004	0.001	0.034	0.083	0.104	0.045	0.069
5/5	0.061	0.113	0.082	0.004	0.001	0.033	0.081	0.103	0.045	0.07
5/6	0.059	0.112	0.083	0.003	0.001	0.032	0.079	0.1	0.047	0.071
5/7	0.057	0.11	0.082	0.003	0.000978	0.03	0.077	0.099	0.048	0.071
5/8	0.056	0.108	0.081	0.003	0.000948	0.029	0.075	0.097	0.048	0.07
5/9	0.054	0.106	0.08	0.003	0.000919	0.028	0.074	0.096	0.047	0.072
5/10	0.053	0.107	0.081	0.003	0.000891	0.028	0.072	0.097	0.046	0.074
5/11	0.052	0.109	0.083	0.003	0.000863	0.029	0.07	0.097	0.056	0.076
5/12	0.051	0.11	0.083	0.003	0.000836	0.377	0.071	0.096	0.118	0.076
5/13	0.05	0.108	0.082	0.003	0.000811	0.616	0.07	0.098	0.071	0.074
5/14	0.048	0.107	0.081	0.003	0.000786	0.05	0.068	0.099	0.064	0.072
5/15	0.046	0.104	0.079	0.003	0.000761	0.038	0.066	0.099	0.064	0.071
5/16	0.045	0.102	0.08	0.002	0.000738	0.038	0.064	0.199	0.063	0.07
5/17	0.044	0.1	0.082	0.002	0.000715	0.038	0.062	0.112	0.063	0.068
5/18	0.043	0.097	0.083	0.002	0.000693	0.842	0.061	0.105	0.061	0.067
5/19	0.042	0.095	0.082	0.002	0.000672	0.095	0.059	0.104	0.06	0.065
5/20	0.041	0.219	0.08	0.002	0.000651	0.059	0.057	0.102	0.058	0.063

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
5/21	0.04	0.515	0.078	0.002	0.000631	0.059	0.055	0.1	0.057	0.062
5/22	0.038	0.117	0.076	0.002	0.000612	0.058	0.053	0.098	0.056	0.425
5/23	0.036	0.109	0.074	0.002	0.000593	0.056	0.054	0.095	0.055	0.548
5/24	0.035	0.109	0.072	0.002	0.000575	0.057	0.054	0.093	0.056	0.429
5/25	0.034	0.108	0.07	0.002	0.000557	0.059	0.054	0.091	0.061	0.094
5/26	0.033	0.106	0.068	0.002	0.00054	0.06	0.056	0.089	0.062	0.089
5/27	0.031	0.104	0.066	0.002	0.000523	0.058	0.057	0.087	0.061	0.088
5/28	0.03	0.102	0.064	0.002	0.000507	0.057	0.057	0.084	0.061	0.087
5/29	0.029	0.099	0.062	0.002	0.000492	0.055	0.057	0.082	0.06	0.085
5/30	0.028	0.096	0.06	0.002	0.000477	0.054	0.056	0.08	0.059	0.083
5/31	0.026	0.094	0.058	0.002	0.000462	0.052	0.054	0.078	0.057	0.081
6/1	0.025	0.091	0.056	0.002	0.000448	0.05	0.052	0.076	0.055	0.079
6/2	0.134	0.089	0.054	0.001	0.000434	0.049	0.051	0.074	0.054	0.077
6/3	1.194	0.087	0.052	0.001	0.000421	0.047	0.049	0.071	0.052	0.075
6/4	0.085	0.085	0.05	0.001	0.000408	0.046	0.048	0.069	0.05	0.073
6/5	0.043	0.082	0.048	0.001	0.000394	0.044	0.046	0.067	0.05	0.071
6/6	0.041	0.08	0.045	0.001	0.000381	0.043	0.044	0.065	0.05	0.069
6/7	0.04	0.079	0.043	0.001	0.00037	0.041	0.043	0.063	0.049	0.066
6/8	0.038	0.08	0.04	0.001	0.000358	0.04	0.041	0.061	0.047	0.064
6/9	0.037	0.081	0.038	0.001	0.000347	0.038	0.039	0.059	0.049	0.062
6/10	0.035	0.079	0.036	0.001	0.000337	0.037	0.037	0.057	0.051	0.061
6/11	0.034	0.077	0.034	0.001	0.000326	0.036	0.037	0.055	0.05	0.059
6/12	0.032	0.077	0.031	0.001	0.000316	0.035	0.036	0.053	0.049	0.057
6/13	0.031	0.077	0.029	0.001	0.000307	0.272	0.035	0.052	0.048	0.055
6/14	0.029	0.076	0.027	0.001	0.000297	0.109	0.033	0.05	0.047	0.053
6/15	0.027	0.074	0.025	0.000976	0.000288	0.057	0.032	0.049	0.045	0.052
6/16	0.026	0.071	0.023	0.000946	0.000279	0.057	0.03	0.05	0.044	0.05
6/17	0.024	0.069	0.021	0.000917	0.00027	0.056	0.03	0.052	0.042	0.048
6/18	0.022	0.068	0.02	0.000889	0.000262	0.054	0.031	0.052	0.04	0.046
6/19	0.02	0.069	0.019	0.000862	0.000254	0.053	0.03	0.05	0.04	0.045
6/20	0.018	0.07	0.017	0.000835	0.000246	0.051	0.028	0.048	0.041	0.043
6/21	0.016	0.069	0.022	0.000809	0.000239	0.05	0.027	0.046	0.039	0.041
6/22	0.014	0.069	0.024	0.000784	0.000231	0.05	0.038	0.045	0.038	0.041
6/23	0.012	0.071	0.02	0.00076	0.000224	0.049	0.036	0.044	0.036	0.042
6/24	0.014	0.073	0.02	0.000737	0.000217	0.047	0.037	0.043	0.034	0.043
6/25	0.266	0.077	0.019	0.000714	0.000211	1.224	0.036	0.041	0.032	0.045
6/26	0.023	0.077	0.018	0.000692	0.000204	0.196	0.034	0.039	0.031	0.044
6/27	0.028	0.075	0.017	0.000671	0.000198	0.077	0.032	0.039	0.029	0.043
6/28	0.032	0.072	0.016	0.00065	0.000192	0.068	0.03	0.039	0.028	0.041
6/29	0.033	0.07	0.015	0.00063	0.000187	0.067	0.029	0.038	0.026	0.04
6/30	0.034	0.068	0.014	0.000611	0.000181	0.067	0.027	0.036	0.024	0.038
7/1	0.033	0.066	0.013	0.000592	0.000176	0.065	0.026	0.034	0.022	0.036
7/2	0.032	0.064	0.012	0.000574	0.00017	0.063	0.025	0.032	0.021	0.034
7/3	0.031	0.062	0.012	0.000556	0.000165	0.061	0.023	0.03	0.019	0.032
7/4	0.029	0.06	0.011	0.000541	0.00016	0.059	0.022	0.028	0.018	0.031
7/5	0.027	0.057	0.011	0.000524	0.000155	0.057	0.02	0.027	0.016	0.029
7/6	0.026	0.055	0.01	0.000508	0.00015	0.055	0.019	0.025	0.015	0.028
7/7	0.025	0.053	0.01	0.000493	0.000146	0.053	0.017	0.024	0.014	0.026

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
7/8	0.024	0.051	0.009	0.000478	0.000141	0.051	0.016	0.023	0.013	0.026
7/9	0.024	0.049	0.009	0.000463	0.000137	0.049	0.015	0.022	0.012	0.024
7/10	0.023	0.048	0.009	0.000449	0.000133	0.05	0.014	0.021	0.011	0.023
7/11	0.022	0.046	0.008	0.000435	0.000128	0.049	0.013	0.02	0.011	0.021
7/12	0.02	0.044	0.008	0.000421	0.000125	0.047	0.012	0.018	0.01	0.02
7/13	0.018	0.042	0.007	0.000408	0.000121	0.045	0.011	0.017	0.01	0.019
7/14	0.018	0.04	0.007	0.000396	0.000117	0.044	0.01	0.015	0.009	0.282
7/15	0.018	0.038	0.007	0.000384	0.000113	0.044	0.009	0.013	0.008	0.045
7/16	0.017	0.037	0.006	0.000372	0.00011	0.044	0.009	0.012	0.008	0.028
7/17	0.015	0.036	0.006	0.00036	0.000107	0.042	0.008	0.011	0.008	0.026
7/18	0.014	0.034	0.006	0.000349	0.000103	0.042	0.007	0.01	0.007	0.026
7/19	0.014	0.032	0.005	0.000339	0.0001	0.04	0.007	0.01	0.007	0.026
7/20	0.013	0.031	0.005	0.000328	0.000097	0.039	0.006	0.009	0.006	0.026
7/21	0.015	0.029	0.005	0.000318	0.000094	0.038	0.25	0.009	0.006	0.024
7/22	0.015	0.028	0.005	0.000308	9.11E-05	0.036	0.153	0.008	0.006	0.022
7/23	0.015	0.027	0.004	0.000299	8.86E-05	0.035	0.02	0.007	0.005	0.021
7/24	0.018	0.026	0.004	0.00029	8.58E-05	0.033	0.007	0.007	0.005	0.019
7/25	0.018	0.024	0.004	0.000281	8.32E-05	0.032	0.006	0.007	0.005	0.018
7/26	0.017	0.023	0.004	0.000272	8.06E-05	0.03	0.005	0.006	0.005	0.016
7/27	0.016	0.022	0.004	0.000264	7.81E-05	0.029	0.005	0.006	0.005	0.015
7/28	0.014	0.021	0.004	0.000256	7.57E-05	0.028	0.005	0.006	0.004	0.014
7/29	0.013	0.02	0.004	0.000248	7.34E-05	0.028	0.005	0.006	0.004	0.013
7/30	0.012	0.019	0.004	0.00024	7.12E-05	0.029	0.005	0.006	0.004	0.012
7/31	0.011	0.019	0.003	0.000233	0.000069	0.029	0.005	0.005	0.004	0.011
8/1	0.01	0.018	0.003	0.000226	6.68E-05	0.157	0.004	0.005	0.004	0.01
8/2	0.009	0.017	0.003	0.000219	6.48E-05	0.083	0.004	0.005	0.004	0.01
8/3	0.008	0.016	0.003	0.000212	6.28E-05	0.046	0.004	0.005	0.043	0.009
8/4	0.008	0.015	0.003	0.000206	6.09E-05	0.04	0.004	0.005	0.015	0.009
8/5	0.012	0.014	0.003	0.000199	0.000059	0.038	0.004	0.005	0.005	0.009
8/6	0.019	0.013	0.003	0.000193	5.72E-05	0.037	0.004	0.004	0.004	0.008
8/7	0.022	0.012	0.003	0.000187	5.54E-05	0.035	0.004	0.004	0.004	0.008
8/8	0.022	0.011	0.003	0.000181	5.37E-05	0.034	0.004	0.004	0.004	0.007
8/9	0.02	0.011	0.003	0.000176	5.21E-05	0.033	0.003	0.004	0.003	0.007
8/10	0.019	0.011	0.003	0.00017	5.05E-05	0.031	0.003	0.004	0.003	0.006
8/11	0.237	0.01	0.002	0.000165	4.89E-05	0.03	0.003	0.004	0.003	0.006
8/12	0.066	0.01	0.002	0.00016	4.74E-05	0.028	0.003	0.004	0.003	0.006
8/13	0.034	0.009	0.002	0.000155	4.59E-05	0.027	0.003	0.004	0.003	0.006
8/14	0.035	0.009	0.002	0.00015	4.45E-05	0.025	0.003	0.003	0.003	0.005
8/15	0.037	0.008	0.002	0.000146	4.32E-05	0.024	0.003	0.003	0.003	0.005
8/16	0.037	0.008	0.002	0.000141	3.94E-05	0.027	0.003	0.003	0.002	0.004
8/17	0.036	0.007	0.002	0.000137	3.81E-05	0.037	0.003	0.003	0.002	0.004
8/18	0.035	0.006	0.002	0.000133	0.000037	0.044	0.003	0.003	0.002	0.004
8/19	0.033	0.006	0.002	0.000129	3.58E-05	0.045	0.16	0.003	0.002	0.004
8/20	0.032	0.005	0.002	0.000125	3.47E-05	0.044	0.181	0.003	0.002	0.004
8/21	0.03	0.005	0.002	0.000118	3.37E-05	0.042	0.024	0.003	0.002	0.003
8/22	0.029	0.004	0.002	0.000114	3.26E-05	0.04	0.005	0.003	0.002	0.003
8/23	0.027	0.004	0.002	0.000111	3.16E-05	0.042	0.003	0.003	0.002	0.003
8/24	0.025	0.004	0.002	0.000108	3.07E-05	0.045	0.003	0.003	0.002	0.003

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
8/25	0.024	0.004	0.002	0.000104	2.97E-05	0.045	0.003	0.002	0.002	0.003
8/26	0.022	0.004	0.002	0.000101	2.88E-05	0.043	0.003	0.002	0.002	0.003
8/27	0.021	0.219	0.001	9.79E-05	2.79E-05	0.042	0.002	0.002	0.002	0.003
8/28	0.019	0.042	0.001	9.49E-05	0.000027	0.04	0.002	0.002	0.002	0.003
8/29	0.017	0.008	0.001	0.000092	2.62E-05	0.039	0.002	0.002	0.002	0.003
8/30	0.016	0.004	0.001	8.91E-05	2.54E-05	0.037	0.002	0.002	0.002	0.003
8/31	0.014	0.003	0.001	8.64E-05	2.46E-05	0.035	0.002	0.002	0.002	0.002
9/1	0.013	0.003	0.001	8.37E-05	2.39E-05	0.033	0.002	0.002	0.001	0.002
9/2	0.012	0.003	0.001	8.11E-05	2.31E-05	0.032	0.002	0.002	0.001	0.002
9/3	0.01	0.003	0.001	7.87E-05	2.24E-05	0.035	0.002	0.002	0.001	0.002
9/4	0.008	0.003	0.001	7.62E-05	2.17E-05	0.037	0.002	0.002	0.001	0.002
9/5	0.007	0.003	0.001	7.39E-05	2.11E-05	0.036	0.002	0.002	0.001	0.002
9/6	0.006	0.003	0.001	7.16E-05	2.04E-05	0.034	0.002	0.002	0.001	0.002
9/7	0.005	0.013	0.001	6.94E-05	1.98E-05	0.033	0.002	0.002	0.001	0.055
9/8	0.005	0.068	0.001	6.73E-05	1.92E-05	0.031	0.002	0.002	0.001	0.009
9/9	0.005	0.014	0.000991	6.52E-05	1.97E-05	0.029	0.002	0.002	0.001	0.003
9/10	0.004	0.01	0.000961	6.32E-05	1.91E-05	0.028	0.002	0.001	0.001	0.002
9/11	0.004	0.011	0.000931	6.13E-05	1.85E-05	0.026	0.002	0.001	0.001	0.002
9/12	0.004	0.012	0.000902	5.94E-05	1.79E-05	0.025	0.002	0.001	0.001	0.002
9/13	0.003	0.027	0.000875	5.75E-05	1.74E-05	0.024	0.002	0.001	0.001	0.002
9/14	0.003	1.567	0.000848	0.000059	1.68E-05	0.026	0.001	0.001	0.000989	0.002
9/15	0.003	0.557	0.000822	5.72E-05	1.63E-05	0.321	0.001	0.001	0.000959	0.002
9/16	0.003	0.127	0.000796	5.55E-05	1.58E-05	0.137	0.001	0.001	0.000929	0.002
9/17	0.003	0.075	0.000772	5.38E-05	1.53E-05	0.066	0.001	0.001	0.0009	0.002
9/18	0.003	0.071	0.000748	5.21E-05	1.49E-05	0.062	0.001	0.001	0.000873	0.002
9/19	0.003	0.07	0.000728	5.05E-05	1.44E-05	0.061	0.001	0.001	0.005	0.001
9/20	0.003	0.068	0.000706	4.89E-05	0.000014	0.059	0.001	0.001	0.003	0.001
9/21	0.003	0.066	0.000684	4.74E-05	1.35E-05	0.06	0.016	0.001	0.000984	0.001
9/22	0.002	0.064	0.000663	0.000046	1.31E-05	0.066	0.012	0.001	0.027	0.001
9/23	0.002	0.062	0.000643	4.46E-05	1.27E-05	0.084	0.002	0.000987	0.027	0.001
9/24	0.002	0.06	0.000623	4.32E-05	1.23E-05	0.08	0.002	0.000957	0.003	0.001
9/25	0.002	0.058	0.000604	4.19E-05	1.19E-05	0.081	0.002	0.000927	0.006	0.001
9/26	0.002	0.056	0.000585	4.06E-05	1.16E-05	0.08	0.335	0.000899	0.002	0.001
9/27	0.002	0.054	0.000567	3.93E-05	1.12E-05	0.078	0.737	0.000871	0.002	0.001
9/28	0.002	0.053	0.00055	3.81E-05	1.09E-05	0.076	0.059	0.000844	0.003	0.001
9/29	0.002	0.051	0.000533	3.69E-05	1.05E-05	0.073	0.011	0.000818	0.004	0.001
9/30	0.002	0.049	0.022	3.58E-05	1.02E-05	0.071	0.009	0.000793	0.008	0.001
10/1	0.002	0.048	0.02	3.47E-05	9.89E-06	0.069	0.009	0.000769	0.138	0.001
10/2	0.002	0.047	0.002	3.36E-05	9.59E-06	0.066	0.008	0.000745	0.197	0.00098
10/3	0.002	0.046	0.000556	3.26E-05	9.84E-06	0.064	0.008	0.000722	0.055	0.00095
10/4	0.002	0.045	0.000456	3.16E-05	9.54E-06	0.062	0.008	0.0007	0.157	0.00092
10/5	0.023	0.043	0.000442	3.06E-05	9.24E-06	0.061	0.012	0.000678	0.081	0.000892
10/6	0.111	0.042	0.000428	2.97E-05	8.96E-06	0.059	0.284	0.000657	0.064	0.000865
10/7	0.008	0.04	0.000415	2.88E-05	8.68E-06	0.11	0.133	0.000637	0.065	0.000838
10/8	0.002	0.039	0.000402	2.95E-05	8.42E-06	0.104	0.038	0.000618	0.065	0.000812
10/9	0.001	0.037	0.00039	2.86E-05	8.16E-06	0.072	0.035	0.000599	0.064	0.000787
10/10	0.001	0.036	0.000378	2.77E-05	7.91E-06	0.071	0.036	0.00058	0.063	0.000763
10/11	0.001	0.035	0.000366	2.69E-05	7.66E-06	0.07	0.036	0.000561	0.061	0.00074

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
10/12	0.001	0.034	0.000355	0.000026	7.43E-06	0.069	0.038	0.000544	0.06	0.000717
10/13	0.001	0.033	0.000344	2.52E-05	7.2E-06	0.067	0.039	0.000527	0.059	0.000695
10/14	0.001	0.032	0.000334	2.45E-05	6.98E-06	0.065	0.039	0.000511	0.057	0.000673
10/15	0.001	0.031	0.000323	2.37E-05	6.76E-06	0.063	0.043	0.000495	0.06	0.000653
10/16	0.001	0.03	0.000314	0.000023	6.55E-06	0.062	0.082	0.00048	0.065	0.000633
10/17	0.001	0.029	0.000307	2.23E-05	6.35E-06	0.06	0.224	0.000465	0.067	0.000613
10/18	0.001	0.475	0.000299	2.16E-05	6.16E-06	0.059	0.069	0.000451	0.066	0.000594
10/19	0.001	0.144	0.00029	2.09E-05	5.97E-06	0.057	0.065	0.000437	0.066	0.000576
10/20	0.001	0.048	0.000281	2.03E-05	5.78E-06	0.055	0.065	0.000423	0.065	0.000558
10/21	0.001	0.048	0.000272	1.97E-05	5.61E-06	0.054	0.065	0.00041	0.064	0.000541
10/22	0.001	0.049	0.000265	1.91E-05	5.43E-06	0.052	0.064	0.000398	0.062	0.000524
10/23	0.002	0.048	0.000272	1.85E-05	5.27E-06	0.051	0.064	0.000385	0.061	0.000508
10/24	0.003	0.048	0.000292	1.79E-05	5.1E-06	0.049	0.075	0.000374	0.06	0.000492
10/25	0.003	0.048	0.000316	1.74E-05	4.95E-06	0.048	0.114	0.000362	0.059	0.000477
10/26	0.003	0.048	0.000337	1.68E-05	4.8E-06	0.047	0.082	0.000351	0.059	0.000462
10/27	0.026	0.047	0.000356	1.63E-05	0	0.045	0.086	0.00034	0.059	0.000448
10/28	0.015	0.046	0.000379	1.58E-05	0	0.044	0.081	0.000331	0.059	0.000434
10/29	0.023	0.045	0.000432	1.53E-05	0	0.043	0.081	0.000324	0.059	0.000421
10/30	0.017	0.044	0.000512	1.48E-05	0	0.042	0.08	0.000317	0.059	0.000408
10/31	0.02	0.043	0.000599	1.44E-05	0	0.04	0.079	0.000309	0.058	0.000395
11/1	0.021	0.043	0.000689	9.84E-06	0	0.039	0.078	0.000311	0.057	0.000383
11/2	0.027	0.042	0.000778	9.54E-06	0.717	0.038	0.129	0.000331	0.142	0.155
11/3	0.028	0.042	0.000859	9.24E-06	0.748	0.037	0.086	0.000374	0.107	0.013
11/4	0.031	0.043	0.000931	8.96E-06	0.062	0.036	0.082	0.000439	0.066	0.008
11/5	0.032	0.045	0.000993	8.68E-06	0.004	0.035	0.081	0.000519	0.067	0.008
11/6	0.033	0.046	0.001	8.42E-06	0.000675	0.034	0.081	0.000612	0.068	0.000937
11/7	0.033	0.047	0.001	8.16E-06	0.000851	0.033	0.079	0.000723	0.069	0.0008
11/8	0.034	0.55	0.001	7.91E-06	0.001	0.032	0.078	0.000845	0.068	0.000949
11/9	0.036	0.112	0.001	7.66E-06	0.001	0.031	0.078	0.000969	0.067	0.001
11/10	0.038	0.055	0.001	7.43E-06	0.002	0.031	0.078	0.001	0.066	0.002
11/11	0.974	0.055	0.001	7.2E-06	0.002	0.033	0.078	0.001	0.065	0.002
11/12	0.299	0.056	0.001	6.98E-06	0.002	0.034	0.077	0.001	0.065	0.002
11/13	0.062	0.057	0.001	6.76E-06	0.003	0.034	0.076	0.001	0.065	0.003
11/14	0.057	0.057	0.001	6.55E-06	0.003	0.035	0.074	0.002	0.064	0.003
11/15	0.059	0.057	0.001	6.35E-06	0.004	0.035	0.073	0.002	0.064	0.003
11/16	0.06	0.057	0.001	6.16E-06	0.004	0.036	0.072	0.002	0.064	0.003
11/17	0.061	0.057	0.001	5.97E-06	0.004	0.037	0.071	0.002	0.064	0.003
11/18	0.061	0.058	0.001	5.78E-06	0.004	0.038	0.07	0.002	0.063	0.003
11/19	0.061	0.059	0.001	5.61E-06	0.004	0.039	0.069	0.002	0.063	0.003
11/20	0.061	0.061	0.001	5.43E-06	0.004	0.04	0.07	0.002	0.063	0.003
11/21	0.061	0.062	0.001	5.27E-06	0.005	0.04	0.072	0.002	0.064	0.003

Day	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
11/22	0.06	0.062	0.001	5.1E-06	0.005	0.041	0.073	0.003	0.064	0.003
11/23	0.06	0.062	0.001	4.95E-06	0.005	0.041	0.073	0.003	0.063	0.004
11/24	0.059	0.062	0.001	4.8E-06	0.006	0.04	0.073	0.003	0.063	0.004
11/25	0.059	0.062	0.001	0	0.006	0.04	0.073	0.003	0.063	0.004
11/26	0.058	0.061	0.000982	0	0.006	0.04	0.073	0.003	0.062	0.004
11/27	0.057	0.061	0.000953	0	0.007	0.042	0.133	0.004	0.062	0.004
11/28	0.057	0.06	0.000924	0	0.008	0.202	0.085	0.004	0.062	0.004
11/29	0.058	0.06	0.000896	0	0.008	0.147	0.075	0.005	0.062	0.005
11/30	0.058	0.059	0.000866	0	0.009	0.069	0.075	0.005	0.063	0.006
12/1	0.058	0.326	0.000839	0	0.01	0.05	0.075	0.005	0.064	0.008
12/2	0.058	0.183	0.000813	0	0.01	0.051	0.075	0.005	0.064	0.009
12/3	0.058	0.067	0.000788	0	0.058	0.053	0.075	0.006	0.064	0.01
12/4	0.057	0.065	0.000764	0	0.058	0.053	0.074	0.006	0.064	0.02
12/5	0.057	0.066	0.000741	0	0.126	0.054	0.074	0.006	0.063	0.02
12/6	0.057	0.067	0.000718	0	0.037	0.054	0.073	0.006	0.063	0.017
12/7	0.057	0.068	0.000696	0	0.015	0.054	0.072	0.006	0.063	0.312
12/8	0.058	0.068	0.000674	0	0.015	0.054	0.072	0.006	0.062	0.104
12/9	0.058	0.068	0.000654	0	0.016	0.054	0.071	0.006	0.062	0.024
12/10	0.058	0.067	0.000633	0	0.016	0.053	0.071	0.006	0.065	0.024
12/11	0.057	0.067	0.000614	0	0.017	0.053	0.07	0.006	0.082	0.025
12/12	0.057	0.084	0.000595	0	0.017	0.052	0.069	0.006	0.069	0.027
12/13	0.057	0.125	0.000577	0	0.018	0.052	0.068	0.006	0.063	0.028
12/14	0.056	0.086	0.000559	0	0.018	0.051	0.068	0.006	0.063	0.028
12/15	0.056	0.089	0.000542	0	0.127	0.05	0.068	0.006	0.064	0.029
12/16	0.055	0.087	0.000525	0	0.087	0.05	0.067	0.006	0.063	0.029
12/17	0.055	0.706	0.000509	0	0.02	0.049	0.128	0.006	0.063	0.03
12/18	0.054	0.175	0.000493	0	0.019	0.049	0.084	0.007	0.064	0.03
12/19	0.054	0.072	0.000478	0	0.02	0.049	0.071	0.175	0.064	0.03
12/20	0.053	0.071	0.000463	0	0.024	0.049	0.227	0.28	0.064	0.03
12/21	0.052	0.072	0.000449	0	0.024	0.048	0.076	0.056	0.063	0.03
12/22	0.052	0.072	0.000435	0	0.021	0.048	0.069	0.009	0.063	0.03
12/23	0.051	0.192	0.000422	0	0.021	0.048	0.142	0.01	0.063	0.03
12/24	0.051	0.396	0.000413	0	0.021	0.047	0.108	0.01	0.063	0.03
12/25	0.05	0.08	0.000401	0	0.021	0.047	0.071	0.011	0.062	0.03
12/26	0.049	0.074	0.000388	0	0.021	0.046	0.071	0.011	0.062	0.03
12/27	0.049	0.075	0.000376	0	0.021	0.046	0.071	0.012	0.061	0.03
12/28	0.048	0.075	0.000365	0	0.021	0.045	0.072	0.012	0.062	0.029
12/29	0.047	0.075	0.000353	0	0.021	0.045	0.072	0.012	1.02	0.029
12/30	0.047	0.075	0.000343	0	0.021	0.044	0.071	0.012	0.586	0.029
12/31	0.046	0.074	3.32E-04	0	0.021	0.044	0.071	0.012	0.129	0.078

Table AE.8: Daily Average Streamflow for 10 years for Gully Creek.

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.058	0.061	0.028	0.02	0.057	0.055	0.04	0.112	0.052	0.046
1/2	0.057	0.059	0.027	0.02	0.054	0.053	0.039	0.761	1.269	0.045
1/3	0.096	0.058	0.027	0.019	0.054	0.052	0.038	0.237	0.829	0.044
1/4	0.763	0.058	0.027	0.019	0.054	0.052	0.038	0.069	0.121	0.063
1/5	1.836	0.146	0.027	0.019	0.053	0.052	0.038	0.052	0.057	0.786
1/6	0.64	0.808	0.027	0.019	0.053	0.052	0.038	0.05	0.05	0.208
1/7	0.111	0.154	0.027	0.019	0.053	0.051	0.038	0.049	0.049	0.059
1/8	0.06	1.082	0.026	0.019	0.052	0.051	0.037	0.049	0.049	0.045
1/9	0.055	0.387	0.026	0.019	0.052	0.051	0.037	0.049	0.049	0.043
1/10	0.054	0.147	0.026	0.188	0.052	0.05	0.037	0.048	0.048	0.043
1/11	0.054	0.066	0.026	0.341	0.051	0.05	0.037	0.048	0.048	0.043
1/12	0.053	0.056	0.026	0.049	0.051	0.05	0.037	0.048	0.161	0.048
1/13	0.053	0.055	0.026	0.022	0.05	0.049	0.036	0.047	0.91	0.213
1/14	0.053	0.054	0.026	0.019	0.05	0.049	0.036	0.047	0.969	0.627
1/15	0.052	0.054	0.026	0.019	0.05	0.049	0.036	0.047	0.128	0.112
1/16	0.052	0.054	0.025	0.019	0.049	0.048	0.036	0.047	0.059	0.05
1/17	0.052	0.053	0.025	0.019	0.049	0.048	0.035	0.046	0.048	0.042
1/18	0.051	0.053	0.031	0.019	0.049	0.048	0.035	0.046	0.046	0.074
1/19	0.051	0.053	0.026	0.019	0.048	0.047	0.035	0.046	0.046	0.046
1/20	0.051	0.052	0.025	0.019	0.048	0.047	0.035	0.045	0.046	0.041
1/21	0.05	0.052	0.025	0.019	0.048	0.047	0.034	0.045	0.045	0.04
1/22	0.071	0.052	0.11	0.019	0.047	0.046	0.034	0.045	0.045	0.04
1/23	0.246	0.051	0.531	0.019	0.047	0.046	0.034	0.045	0.045	0.04
1/24	0.075	0.051	0.288	0.018	0.047	0.046	0.034	0.044	0.044	0.04
1/25	0.052	0.05	0.06	0.018	0.046	0.045	0.033	0.044	0.044	0.039
1/26	0.049	0.05	0.029	0.018	0.046	0.09	0.033	0.044	0.044	0.039
1/27	0.048	0.05	0.025	0.018	0.045	0.438	0.033	0.043	0.043	0.039
1/28	0.048	0.049	0.024	0.018	0.045	0.119	0.033	0.043	0.043	0.039
1/29	0.048	0.069	0.024	0.018	0.045	0.073	0.032	0.043	0.043	1.982
1/30	0.047	0.082	0.023	0.018	0.044	0.047	0.032	0.042	0.042	2.943
1/31	0.047	0.058	0.023	0.018	0.044	0.044	0.032	0.042	0.042	0.394
2/1	0.047	0.058	0.023	0.018	0.044	0.043	0.032	0.042	0.042	0.082
2/2	0.046	0.093	0.023	0.018	0.043	0.043	0.031	0.041	0.041	0.043
2/3	0.046	0.096	0.023	0.018	0.043	0.042	0.031	0.041	0.041	0.038
2/4	0.105	0.057	0.023	0.017	0.043	0.042	0.116	0.041	0.041	0.037
2/5	1.102	0.048	0.023	0.017	0.042	0.042	0.05	0.04	0.04	0.037
2/6	0.217	0.046	0.022	0.017	0.042	0.041	0.033	0.04	0.04	0.036
2/7	0.087	0.05	0.022	0.017	0.041	0.041	0.031	0.04	0.04	0.036
2/8	0.187	0.066	0.022	0.017	0.041	0.041	0.03	0.039	0.044	0.036
2/9	0.066	0.086	0.022	0.017	3.48	0.04	0.03	0.039	0.04	0.036
2/10	0.047	0.119	0.022	0.017	5.153	0.049	0.029	0.039	0.039	0.035
2/11	0.043	0.22	0.022	0.017	0.838	0.122	0.029	0.038	0.038	0.035
2/12	0.043	0.491	0.042	0.017	0.162	0.051	0.029	0.038	0.038	0.035
2/13	0.042	0.178	0.027	0.017	0.059	0.041	0.029	0.038	0.038	0.034
2/14	0.042	0.063	0.022	0.016	0.042	0.039	0.028	0.037	0.075	0.034
2/15	0.041	0.046	0.021	0.016	0.039	0.038	0.028	0.037	0.91	0.034
2/16	0.041	0.043	0.021	0.016	0.038	0.038	0.028	0.037	2.333	0.188
2/17	0.041	0.463	0.036	0.016	0.038	0.038	0.028	0.037	0.411	2.64
2/18	0.042	1.178	0.024	0.016	0.038	0.038	0.028	0.037	0.096	0.523
2/19	0.498	0.78	0.022	0.016	0.038	0.038	0.028	0.037	0.046	0.107
2/20	1.115	0.399	0.021	0.016	0.038	1.736	0.028	0.065	0.038	0.045
2/21	4.498	0.245	0.021	0.016	0.038	2.583	0.028	0.769	0.037	0.036
2/22	2.406	0.351	0.021	0.016	0.038	0.473	0.028	0.173	0.037	0.034
2/23	0.399	0.448	0.021	0.022	0.038	0.108	0.028	0.059	0.036	0.034
2/24	0.096	0.284	0.021	0.239	0.037	0.072	0.028	0.04	0.036	0.034
2/25	0.049	0.143	0.021	2.444	0.041	0.512	0.028	0.037	0.036	0.034
2/26	0.132	0.132	0.021	0.468	0.072	1.444	0.028	0.036	0.036	0.034
2/27	1.335	0.151	0.021	0.09	0.043	0.752	0.028	0.038	0.036	0.034
2/28	1.278	0.24	0.841	0.029	0.038	0.154	0.027	0.063	0.036	0.034
2/29				0.019				0.237		
3/1	1.114	0.126	0.406	0.138	0.037	0.056	0.027	0.689	0.036	0.034
3/2	1.657	0.093	0.084	0.147	0.037	0.267	0.027	1.414	0.036	0.034
3/3	0.679	0.239	0.032	0.037	0.037	1.352	0.027	0.964	0.036	0.034
3/4	0.15	0.374	0.023	0.02	0.037	0.351	0.027	0.686	0.036	0.034
3/5	0.13	0.122	0.022	0.017	0.037	0.087	0.027	2.462	0.036	0.034
3/6	0.061	0.162	0.022	0.017	0.037	0.045	0.027	1.205	0.036	0.034
3/7	0.043	0.217	0.022	0.017	0.037	0.038	0.027	0.498	0.048	0.034
3/8	0.04	0.321	0.022	0.017	0.037	0.625	0.027	0.833	0.094	0.034
3/9	0.04	2.203	0.022	0.017	0.037	2.099	0.027	0.159	0.044	0.388
3/10	0.207	3.247	0.022	0.017	0.037	1.606	0.027	0.073	0.037	2.286
3/11	0.771	0.557	0.022	0.017	0.037	0.28	0.027	0.084	0.036	0.991
3/12	0.15	0.123	0.022	0.018	0.037	0.075	0.027	0.145	0.036	0.713
3/13	0.057	0.054	0.022	0.018	0.037	0.068	0.027	0.05	0.036	2.04
3/14	0.605	0.043	0.022	0.018	0.044	0.074	0.027	0.038	0.036	1.087
3/15	1.461	0.041	0.023	0.018	0.07	0.042	0.029	0.036	0.036	0.188
3/16	0.248	0.04	0.023	0.228	0.041	0.037	0.034	0.036	0.036	0.058
3/17	0.265	0.123	0.023	0.064	0.037	0.037	0.04	0.036	0.036	0.038
3/18	0.512	0.568	0.027	0.025	0.037	0.037	0.053	0.036	0.036	0.035
3/19	0.111	1.197	0.024	0.019	0.036	0.037	0.031	0.108	0.036	0.034
3/20	0.062	0.549	0.023	0.019	0.036	0.084	0.028	1.038	0.036	0.034
3/21	0.287	0.108	0.024	0.019	0.036	0.076	0.028	0.657	0.036	0.034
3/22	0.676	0.049	0.024	0.019	0.036	0.042	0.028	0.119	0.036	0.035
3/23	0.131	0.041	0.024	0.02	0.037	0.214	0.028	0.047	0.036	0.035
3/24	0.052	0.081	0.025	0.02	0.045	0.405	0.029	0.058	0.036	0.035
3/25	1.241	0.416	0.025	0.02	0.038	0.085	0.029	0.332	0.036	0.035
3/26	0.9	1.646	0.025	0.02	0.036	0.043	0.029	0.827	0.036	0.035
3/27	0.156	0.911	0.026	0.021	0.036	0.038	0.029	1.189	0.036	0.035
3/28	0.189	0.888	0.026	0.021	0.046	0.037	0.029	0.471	0.036	0.035
3/29	2.107	0.565	0.026	0.021	0.224	0.037	0.03	0.448	0.036	0.035
3/30	1.219	0.107	0.027	0.022	0.59	0.217	0.03	2.037	0.038	0.035
3/31	0.687	0.049	0.027	0.022	0.285	0.067	0.03	0.986	0.079	0.224
4/1	0.132	0.327	0.027	0.022	0.726	0.184	0.031	0.508	0.084	3.118
4/2	0.061	0.601	0.028	0.022	0.806	0.293	0.031	0.329	0.324	0.708

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	0.386	0.233	0.04	0.023	0.234	0.944	0.094	0.29	0.473	0.76
4/4	0.635	0.068	0.032	0.023	0.065	0.208	0.171	0.252	0.116	1.212
4/5	0.888	0.044	0.029	0.023	0.152	0.06	0.049	0.071	0.321	0.434
4/6	1.213	0.041	0.029	0.024	0.765	0.04	0.035	0.042	0.63	0.091
4/7	0.782	0.041	0.03	0.024	1.131	0.038	0.033	0.037	0.772	1.31
4/8	0.175	0.041	0.03	0.024	0.82	0.23	0.033	0.036	0.596	1.098
4/9	0.059	0.041	0.031	0.024	1.188	2.075	0.033	0.036	0.565	0.18
4/10	0.043	0.041	0.031	0.025	0.768	0.355	0.033	0.036	0.668	0.066
4/11	0.041	0.041	0.032	0.025	0.494	0.081	0.033	0.037	0.419	0.062
4/12	0.098	0.041	0.032	0.025	0.924	0.33	0.033	0.037	0.092	0.816
4/13	0.306	0.041	0.033	0.025	0.76	0.038	0.033	0.037	0.045	1.109
4/14	0.268	0.041	0.033	0.026	0.456	0.038	0.033	0.043	0.038	0.179
4/15	0.384	0.041	0.033	0.026	0.422	0.038	0.033	0.076	0.037	0.057
4/16	0.848	0.041	0.034	0.026	0.765	0.038	0.033	0.261	0.037	0.037
4/17	0.577	0.042	0.034	0.026	1.096	0.038	0.034	0.83	0.037	0.037
4/18	0.129	0.042	0.035	0.027	0.326	0.039	0.034	1.876	0.038	0.038
4/19	0.057	0.042	0.035	0.027	0.088	0.039	0.034	1.61	0.038	0.038
4/20	0.045	0.043	0.035	0.03	0.067	0.039	0.035	0.492	0.038	0.038
4/21	0.043	0.043	0.036	0.055	1.049	0.04	0.035	0.107	0.039	0.039
4/22	0.043	0.043	0.036	0.033	0.581	0.04	0.036	0.136	0.039	0.039
4/23	0.044	0.044	0.037	0.029	0.125	0.04	0.036	0.057	0.039	0.04
4/24	0.044	0.044	0.037	0.029	0.054	0.041	0.036	0.043	0.04	0.04
4/25	0.045	0.044	0.037	0.03	0.043	0.041	0.037	0.041	0.04	0.04
4/26	0.045	0.045	0.038	0.03	0.041	0.042	0.037	0.041	0.041	0.041
4/27	0.045	0.045	0.038	0.031	0.041	0.042	0.037	0.042	0.35	0.041
4/28	0.046	0.046	0.039	0.031	0.042	0.042	0.038	0.042	0.175	0.042
4/29	0.046	0.046	0.039	0.031	0.042	0.043	0.038	0.042	0.094	0.042
4/30	0.047	0.046	0.039	0.032	0.042	0.043	0.038	0.043	0.05	0.043
5/1	0.047	0.047	0.04	0.032	0.043	0.043	0.096	0.043	0.044	0.043
5/2	0.048	0.047	0.04	0.032	0.043	0.044	0.062	0.693	0.043	0.043
5/3	0.048	0.047	0.04	0.032	0.044	0.044	0.042	0.362	0.043	0.044
5/4	0.048	0.048	0.041	0.033	0.044	0.045	0.04	0.087	0.044	0.044
5/5	0.051	0.048	0.041	0.033	0.044	0.045	0.04	0.051	0.044	0.045
5/6	0.284	0.049	0.042	0.033	0.045	0.045	0.041	0.046	0.045	0.045
5/7	0.097	0.049	0.042	0.033	0.045	0.046	0.041	0.052	0.045	0.045
5/8	0.058	0.049	0.042	0.033	0.046	0.046	0.041	0.711	0.045	0.046
5/9	0.141	0.05	0.043	0.034	0.046	0.047	0.042	1.611	0.046	0.046
5/10	0.581	0.05	0.043	0.034	0.046	0.047	0.042	1.091	0.046	0.047
5/11	0.132	0.051	0.043	0.034	0.047	0.047	0.073	0.198	0.047	0.047
5/12	0.077	0.051	0.044	0.035	0.047	0.048	0.055	0.069	0.047	0.048
5/13	0.055	0.051	0.044	0.035	0.047	0.048	0.045	0.051	0.047	0.048
5/14	0.053	0.052	0.044	0.036	0.048	0.049	0.044	0.05	0.048	0.048
5/15	1.19	0.052	0.045	0.036	0.048	0.049	0.044	0.219	0.048	0.049
5/16	1.786	0.052	0.045	0.036	0.049	0.073	0.045	0.076	0.048	0.049
5/17	0.755	0.053	0.045	0.037	0.049	0.121	0.045	0.054	0.049	0.05
5/18	0.142	0.053	0.046	0.037	0.049	0.058	0.045	0.051	0.049	0.05
5/19	0.731	0.054	0.046	0.037	0.05	0.051	0.046	0.051	0.05	0.05
5/20	0.146	0.054	0.046	0.038	0.05	0.051	0.046	0.051	0.05	0.051

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	0.066	0.054	0.046	0.039	0.051	0.051	0.047	0.052	0.05	0.051
5/22	0.057	0.055	0.047	0.039	0.051	0.052	0.047	0.525	0.051	0.051
5/23	0.057	0.055	0.047	0.04	0.051	0.052	0.047	3.381	0.051	0.052
5/24	0.057	0.055	0.047	0.07	0.052	0.053	0.048	2.164	0.051	0.052
5/25	0.058	0.056	0.047	0.045	0.052	0.053	0.048	0.332	0.052	0.053
5/26	0.058	0.056	0.047	0.042	0.052	0.054	0.049	0.086	0.052	0.053
5/27	0.059	0.057	0.048	0.043	0.053	0.054	0.049	0.058	0.053	0.053
5/28	0.059	0.057	0.048	0.043	0.053	0.054	0.049	0.055	0.053	0.054
5/29	0.059	0.057	0.049	0.044	0.053	0.055	0.05	0.055	0.053	0.054
5/30	0.06	0.058	0.049	0.044	0.054	0.055	0.05	0.056	0.054	0.055
5/31	0.06	0.058	0.049	0.044	0.054	0.055	0.051	0.056	0.054	0.055
6/1	0.061	0.058	0.05	0.045	0.055	0.056	0.051	0.057	0.054	0.055
6/2	0.061	0.059	0.05	0.045	0.055	0.056	0.051	0.058	0.055	0.056
6/3	0.062	0.059	0.05	0.045	0.055	0.057	0.052	0.058	0.055	0.056
6/4	0.062	0.059	0.051	0.046	0.056	0.057	0.052	0.058	0.055	0.056
6/5	0.063	0.06	0.051	0.046	0.056	0.057	0.053	0.058	0.056	0.057
6/6	0.063	0.06	0.051	0.046	0.056	0.058	0.053	0.059	0.056	0.057
6/7	0.063	0.06	0.051	0.046	0.057	0.058	0.053	0.059	0.056	0.058
6/8	0.064	0.061	0.051	0.046	0.057	0.059	0.054	0.06	0.057	0.058
6/9	0.064	0.061	0.051	0.046	0.058	0.059	0.054	0.06	0.057	0.058
6/10	0.065	0.062	0.051	0.046	0.058	0.059	0.054	0.06	0.058	0.059
6/11	0.065	0.062	0.051	0.054	0.058	0.06	0.055	0.061	0.058	0.059
6/12	0.065	0.062	0.051	0.129	0.059	0.06	0.055	0.061	0.058	0.059
6/13	0.066	0.063	0.051	0.062	0.059	0.061	0.055	0.062	0.059	0.06
6/14	0.066	0.063	0.051	0.05	0.059	0.061	0.056	0.062	0.059	0.06
6/15	0.067	0.063	0.051	0.049	0.06	0.061	0.056	0.062	0.059	0.06
6/16	0.067	0.063	0.051	0.049	0.06	0.061	0.056	0.063	0.059	0.061
6/17	0.067	0.063	0.051	0.049	0.06	0.062	0.056	0.063	0.059	0.061
6/18	0.067	0.063	0.05	0.05	0.06	0.062	0.056	0.063	0.059	0.061
6/19	0.067	0.063	0.05	0.05	0.06	0.062	0.057	0.063	0.06	0.061
6/20	0.067	0.062	0.05	0.05	0.06	0.062	0.057	0.063	0.06	0.061
6/21	0.068	0.062	0.049	0.051	0.06	0.062	0.057	0.063	0.06	0.061
6/22	0.068	0.062	0.049	0.051	0.06	0.062	0.057	0.063	0.06	0.061
6/23	0.068	0.061	0.049	0.051	0.06	0.062	0.057	0.063	0.06	0.061
6/24	0.068	0.061	0.048	0.051	0.06	0.062	0.057	0.063	0.06	0.061
6/25	0.068	0.061	0.048	0.2	0.06	0.062	0.057	0.063	0.06	0.061
6/26	0.068	0.06	0.048	0.118	0.06	0.062	0.057	0.063	0.06	0.061
6/27	0.068	0.06	0.047	0.064	0.06	0.062	0.057	0.063	0.06	0.06
6/28	0.068	0.06	0.047	0.055	0.06	0.062	0.057	0.064	0.06	0.06
6/29	0.068	0.059	0.047	0.053	0.06	0.062	0.057	0.064	0.06	0.06
6/30	0.068	0.059	0.046	0.053	0.06	0.062	0.057	0.064	0.06	0.06
7/1	0.068	0.058	0.046	0.053	0.06	0.062	0.057	0.064	0.059	0.06
7/2	0.068	0.058	0.046	0.053	0.06	0.062	0.057	0.064	0.059	0.059
7/3	0.068	0.058	0.045	0.053	0.06	0.062	0.057	0.064	0.059	0.059
7/4	0.068	0.057	0.045	0.053	0.06	0.062	0.057	0.064	0.058	0.059
7/5	0.068	0.057	0.045	0.053	0.06	0.062	0.057	0.064	0.058	0.058
7/6	0.068	0.057	0.044	0.054	0.06	0.062	0.057	0.064	0.057	0.058
7/7	0.068	0.056	0.044	0.054	0.06	0.062	0.057	0.064	0.057	0.057

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.068	0.056	0.043	0.054	0.06	0.062	0.057	0.064	0.057	0.057
7/9	0.068	0.057	0.043	2.561	0.06	0.062	0.057	0.064	0.056	0.057
7/10	0.068	0.057	0.043	4.874	0.06	0.062	0.057	0.064	0.056	0.056
7/11	0.068	0.057	0.042	1.218	0.06	0.062	0.057	0.064	0.055	0.056
7/12	0.068	0.057	0.042	0.343	0.059	0.062	0.057	0.064	0.055	0.056
7/13	0.068	0.056	0.041	0.128	0.059	0.062	0.057	0.064	0.054	0.055
7/14	0.068	0.056	0.041	0.074	0.058	0.062	0.057	0.064	0.054	0.055
7/15	0.068	0.056	0.04	0.061	0.058	0.062	0.056	0.064	0.053	0.054
7/16	0.068	0.055	0.04	0.057	0.058	0.062	0.056	0.064	0.591	0.054
7/17	0.068	0.055	0.04	0.057	0.057	0.062	0.057	0.064	0.987	0.054
7/18	0.069	0.055	0.039	0.057	0.057	0.062	0.057	0.064	0.274	0.054
7/19	0.069	0.054	0.039	0.057	0.057	0.062	0.057	0.065	0.108	0.053
7/20	0.069	0.054	0.039	0.058	0.057	0.062	0.057	0.065	0.069	0.053
7/21	0.069	0.054	0.039	0.058	0.057	0.061	0.057	0.065	0.06	0.053
7/22	0.069	0.054	0.038	0.058	0.056	0.061	0.057	0.065	0.058	0.053
7/23	0.07	0.054	0.038	0.059	0.056	0.061	0.057	0.066	0.057	0.052
7/24	0.069	0.053	0.038	0.059	0.056	0.061	0.057	0.066	0.057	0.052
7/25	0.069	0.053	0.038	0.059	0.056	0.062	0.057	0.066	0.058	0.052
7/26	0.069	0.053	0.037	0.06	0.056	0.061	0.057	0.066	0.058	0.052
7/27	0.069	0.053	0.037	0.06	0.055	0.062	0.057	0.067	0.058	0.052
7/28	0.069	0.052	0.037	0.06	0.055	0.062	0.057	0.067	0.058	0.051
7/29	0.069	0.052	0.036	0.061	0.055	0.062	0.057	0.067	0.058	0.051
7/30	0.069	0.052	0.036	0.061	0.055	0.062	0.057	0.067	0.058	0.051
7/31	0.069	0.052	0.036	0.062	0.055	0.063	0.057	0.068	0.058	0.051
8/1	0.069	0.051	0.036	0.062	0.054	0.063	0.056	0.068	0.058	0.051
8/2	0.069	0.051	0.035	0.063	0.054	0.064	0.056	0.068	0.058	0.051
8/3	0.069	0.051	0.035	0.063	0.054	0.064	0.056	0.068	0.058	0.051
8/4	0.069	0.051	0.035	0.064	0.054	0.064	0.056	0.069	0.058	0.051
8/5	0.069	0.05	0.035	0.064	0.053	0.064	0.056	0.069	0.058	0.052
8/6	0.069	0.05	0.035	0.064	0.053	0.065	0.056	0.069	0.058	0.052
8/7	0.069	0.05	0.034	0.065	0.053	0.065	0.056	0.069	0.058	0.053
8/8	0.068	0.05	0.034	0.065	0.053	0.065	0.056	0.07	0.057	0.053
8/9	0.068	0.05	0.034	0.066	0.052	0.064	0.056	0.07	0.057	0.053
8/10	0.068	0.05	0.034	0.066	0.052	0.064	0.056	0.07	0.057	0.053
8/11	0.068	0.05	0.034	0.066	0.052	0.064	0.056	0.071	0.057	0.053
8/12	0.068	0.05	0.033	0.067	0.052	0.064	0.056	0.071	0.057	0.053
8/13	0.068	0.05	0.033	0.067	0.052	0.064	0.056	0.071	0.057	0.053
8/14	0.068	0.05	0.033	0.067	0.051	0.064	0.056	0.071	0.057	0.053
8/15	0.068	0.05	0.033	0.068	0.051	0.064	0.055	0.072	0.057	0.053
8/16	0.069	0.049	0.033	0.068	0.051	0.064	0.055	0.072	0.057	0.053
8/17	0.069	0.049	0.032	0.068	0.051	0.064	0.055	0.072	0.056	0.053
8/18	0.069	0.049	0.032	0.069	0.051	0.064	0.055	0.072	0.056	0.053
8/19	0.069	0.049	0.032	0.069	0.05	0.063	0.055	0.073	0.056	0.052
8/20	0.07	0.049	0.031	0.069	0.05	0.063	0.055	0.073	0.056	0.052
8/21	0.07	0.048	0.031	0.069	0.05	0.063	0.054	0.073	0.057	0.052
8/22	0.07	0.048	0.031	0.07	0.05	0.063	0.054	0.073	0.057	0.052
8/23	0.071	0.048	0.031	0.07	0.05	0.063	0.054	0.073	0.057	0.052
8/24	0.072	0.048	0.03	0.07	0.05	0.063	0.054	0.073	0.057	0.051

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.072	0.048	0.03	0.07	0.049	0.063	0.054	0.073	0.057	0.051
8/26	0.072	0.048	0.03	0.07	0.049	0.063	0.054	0.073	0.057	0.051
8/27	0.073	0.048	0.03	0.071	0.049	0.063	0.054	0.073	0.057	0.051
8/28	0.073	0.048	0.03	0.071	0.049	0.063	0.053	0.073	0.057	0.051
8/29	0.073	0.047	0.03	0.071	0.048	0.062	0.053	0.073	0.058	0.051
8/30	0.073	0.047	0.029	0.071	0.048	0.062	0.053	0.073	0.058	0.051
8/31	0.074	0.047	0.029	0.071	0.048	0.062	0.053	0.074	0.058	0.051
9/1	0.074	0.047	0.029	0.071	0.048	0.062	0.053	0.074	0.058	0.051
9/2	0.074	0.047	0.029	0.071	0.048	0.062	0.053	0.074	0.058	0.05
9/3	0.074	0.047	0.028	0.071	0.048	0.062	0.052	0.074	0.058	0.05
9/4	0.074	0.046	0.028	0.071	0.047	0.061	0.052	0.074	0.058	0.05
9/5	0.074	0.046	0.028	0.071	0.047	0.061	0.052	0.074	0.058	0.05
9/6	0.074	0.046	0.028	0.071	0.047	0.061	0.052	0.074	0.057	0.05
9/7	0.074	0.046	0.027	0.071	0.047	0.061	0.052	0.074	0.057	0.05
9/8	0.074	0.046	0.027	0.071	0.047	0.061	0.052	0.074	0.057	0.05
9/9	0.074	0.046	0.027	0.071	0.047	0.061	0.051	0.075	0.057	0.05
9/10	0.075	0.046	0.027	0.071	0.047	0.061	0.051	0.075	0.057	0.05
9/11	0.075	0.045	0.027	0.071	0.047	0.061	0.051	0.076	0.057	0.049
9/12	0.075	0.045	0.026	0.072	0.046	0.06	0.051	0.076	0.057	0.049
9/13	0.075	0.045	0.026	0.072	0.046	0.06	0.051	0.076	0.057	0.049
9/14	0.075	0.045	0.026	0.072	0.046	0.06	0.051	0.076	0.057	0.049
9/15	0.076	0.045	0.026	0.073	0.046	0.06	0.051	0.076	0.057	0.049
9/16	0.076	0.045	0.026	0.073	0.046	0.06	0.05	0.076	0.056	0.049
9/17	0.075	0.044	0.025	0.074	0.045	0.059	0.05	0.076	0.056	0.048
9/18	0.075	0.044	0.025	0.074	0.045	0.059	0.049	0.075	0.056	0.048
9/19	0.075	0.043	0.025	0.075	0.044	0.058	0.049	0.075	0.055	0.048
9/20	0.075	0.043	0.024	0.075	0.044	0.058	0.049	0.074	0.055	0.047
9/21	0.074	0.043	0.024	0.074	0.044	0.058	0.048	0.074	0.054	0.047
9/22	0.074	0.042	0.024	0.074	0.043	0.057	0.048	0.073	0.054	0.047
9/23	0.074	0.042	0.023	0.19	0.043	0.057	0.048	0.073	0.053	0.047
9/24	0.073	0.041	0.023	0.165	0.043	0.056	0.048	0.072	0.053	0.046
9/25	0.073	0.041	0.023	0.096	0.043	0.056	0.048	0.072	0.053	0.046
9/26	0.073	0.041	0.022	0.08	0.043	0.055	0.048	0.071	0.053	0.046
9/27	0.072	0.04	0.022	0.076	0.043	0.055	0.048	0.071	0.053	0.046
9/28	0.072	0.04	0.022	0.075	0.044	0.054	0.048	0.07	0.053	0.046
9/29	0.072	0.04	0.021	0.074	0.044	0.054	0.048	0.07	0.053	0.046
9/30	0.071	0.039	0.021	0.074	0.045	0.054	0.049	0.069	0.053	0.046
10/1	0.071	0.039	0.021	0.074	0.045	0.053	0.049	0.069	0.054	0.046
10/2	0.071	0.039	0.021	0.074	0.045	0.053	0.049	0.068	0.054	0.046
10/3	0.07	0.038	0.021	0.074	0.046	0.052	0.05	0.068	0.054	0.046
10/4	0.07	0.038	0.02	0.074	0.046	0.052	0.05	0.067	0.055	0.046
10/5	0.07	0.038	0.02	0.073	0.046	0.052	0.051	0.067	0.055	0.046
10/6	0.069	0.037	0.02	0.073	0.046	0.052	0.052	0.066	0.055	0.046
10/7	0.069	0.037	0.02	0.073	0.047	0.051	0.052	0.066	0.055	0.046
10/8	0.069	0.037	0.019	0.073	0.047	0.051	0.053	0.065	0.055	0.046
10/9	0.068	0.036	0.019	0.073	0.048	0.051	0.053	0.065	0.055	0.047
10/10	0.068	0.036	0.019	0.072	0.048	0.05	0.053	0.064	0.054	0.047
10/11	0.068	0.036	0.019	0.072	0.049	0.05	0.054	0.064	0.054	0.047

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.067	0.035	0.018	0.072	0.049	0.05	0.054	0.063	0.054	0.047
10/13	0.067	0.035	0.018	0.072	0.05	0.049	0.054	0.063	0.054	0.047
10/14	0.066	0.034	0.018	0.071	0.05	0.049	0.054	0.063	0.054	0.048
10/15	0.066	0.034	0.018	0.071	0.051	0.048	0.054	0.062	0.053	0.048
10/16	0.066	0.034	0.018	0.071	0.051	0.048	0.054	0.062	0.053	0.049
10/17	0.065	0.034	0.018	0.071	0.052	0.048	0.055	0.061	0.053	0.049
10/18	0.065	0.033	0.018	0.07	0.053	0.047	0.055	0.061	0.052	0.049
10/19	0.065	0.033	0.018	0.07	0.053	0.047	0.055	0.061	0.052	0.05
10/20	0.064	0.033	0.017	0.07	0.054	0.047	0.055	0.061	0.052	0.05
10/21	0.065	0.032	0.017	0.069	0.054	0.046	0.055	0.061	0.052	0.05
10/22	0.107	0.032	0.017	0.069	0.055	0.046	0.055	0.06	0.051	0.051
10/23	0.074	0.032	0.017	0.069	0.055	0.046	0.055	0.06	0.051	0.051
10/24	0.064	0.032	0.017	0.069	0.055	0.046	0.055	0.06	0.051	0.051
10/25	0.064	0.032	0.017	0.068	0.056	0.045	0.055	0.059	0.05	0.052
10/26	0.064	0.031	0.017	0.068	0.056	0.045	0.055	0.059	0.05	0.052
10/27	0.064	0.031	0.017	0.068	0.056	0.045	0.055	0.059	0.05	0.052
10/28	0.064	0.031	0.017	0.067	0.056	0.044	0.055	0.059	0.05	0.053
10/29	0.065	0.031	0.017	0.067	0.057	0.044	0.055	0.058	0.049	0.053
10/30	0.065	0.03	0.017	0.067	0.057	0.044	0.055	0.058	0.049	0.053
10/31	0.065	0.03	0.017	0.066	0.057	0.043	0.055	0.058	0.049	0.054
11/1	0.065	0.03	0.016	0.066	0.057	0.043	0.055	0.057	0.048	0.054
11/2	0.065	0.03	0.016	0.066	0.057	0.043	0.055	0.057	0.048	0.054
11/3	0.065	0.029	0.016	0.065	0.057	0.043	0.055	0.057	0.048	0.054
11/4	0.066	0.029	0.016	0.065	0.057	0.042	0.055	0.057	0.047	0.054
11/5	0.066	0.029	0.016	0.065	0.057	0.042	0.055	0.056	0.047	0.054
11/6	0.066	0.029	0.016	0.064	0.057	0.042	0.055	0.056	0.047	0.054
11/7	0.066	0.028	0.017	0.064	0.057	0.042	0.055	0.056	0.046	0.054
11/8	0.066	0.028	0.017	0.064	0.057	0.041	0.055	0.056	0.046	0.054
11/9	0.066	0.028	0.017	0.063	0.057	0.041	0.055	0.056	0.046	0.054
11/10	0.065	0.028	0.017	0.063	0.057	0.041	0.054	0.055	0.046	0.054
11/11	0.065	0.028	0.017	0.062	0.057	0.041	0.054	0.055	0.045	0.054
11/12	0.065	0.027	0.017	0.062	0.057	0.04	0.054	0.055	0.045	0.054
11/13	0.065	0.027	0.017	0.062	0.057	0.04	0.054	0.055	0.045	0.054
11/14	0.064	0.027	0.017	0.061	0.056	0.04	0.054	0.054	0.045	0.054
11/15	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.056	0.054
11/16	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	1	0.054
11/17	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.199	0.054
11/18	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.067	0.055
11/19	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.048	0.055
11/20	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.045	0.055
11/21	0.064	0.027	0.017	0.061	0.056	0.04	0.053	0.054	0.045	0.055

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/22	0.064	0.027	0.017	0.061	0.056	0.04	0.054	0.054	0.045	0.055
11/23	0.064	0.027	0.017	0.061	0.056	0.04	0.054	0.054	0.045	0.055
11/24	0.064	0.027	0.017	0.06	0.056	0.04	0.054	0.054	0.045	0.056
11/25	0.064	0.027	0.017	0.06	0.079	0.04	0.054	0.054	0.045	0.056
11/26	0.064	0.027	0.017	0.06	0.063	0.04	0.054	0.054	0.045	0.056
11/27	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.045	0.056
11/28	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.045	0.056
11/29	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.111	0.056
11/30	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.066	0.056
12/1	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.055	0.048	0.352
12/2	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.046	0.248
12/3	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.046	0.08
12/4	0.064	0.027	0.017	0.06	0.057	0.041	0.054	0.054	0.046	0.06
12/5	0.064	0.027	0.018	0.06	0.057	0.041	0.054	0.054	0.046	0.057
12/6	0.064	0.032	0.018	0.06	0.057	0.041	0.054	0.054	0.046	0.057
12/7	0.064	0.187	0.018	0.06	0.057	0.041	0.054	0.12	0.046	0.057
12/8	0.064	0.053	0.018	0.06	0.057	0.041	0.054	0.175	0.047	0.057
12/9	0.063	0.03	0.018	0.06	0.057	0.041	0.055	0.067	0.047	0.057
12/10	0.063	0.028	0.018	0.06	0.057	0.041	0.061	0.055	0.047	0.057
12/11	0.063	0.027	0.018	0.06	0.057	0.041	0.127	0.054	0.047	0.057
12/12	0.063	0.028	0.018	0.06	0.057	0.041	0.065	0.054	0.047	0.057
12/13	0.063	0.028	0.018	0.06	0.057	0.041	0.056	0.054	0.047	0.057
12/14	0.063	0.028	0.034	0.06	0.057	0.041	0.055	0.054	0.047	0.057
12/15	0.063	0.028	0.082	0.059	0.057	0.041	0.055	0.054	0.047	0.057
12/16	0.063	0.028	0.039	0.063	0.057	0.041	0.055	0.054	0.047	0.057
12/17	0.063	0.028	0.021	0.721	0.057	0.041	0.055	0.054	0.047	0.057
12/18	0.063	0.028	0.019	0.157	0.057	0.041	0.055	0.054	0.047	0.057
12/19	0.063	0.028	0.019	0.059	0.057	0.042	0.055	0.054	0.047	0.057
12/20	0.063	0.028	0.019	0.059	0.072	0.12	0.055	0.054	0.047	0.057
12/21	0.063	0.028	0.019	0.059	0.059	0.058	0.055	0.054	0.048	0.057
12/22	0.063	0.028	0.02	0.059	0.057	0.043	0.055	0.054	0.048	0.057
12/23	0.063	0.028	0.02	0.059	0.057	0.041	0.117	0.054	0.048	0.057
12/24	0.063	0.028	0.02	0.059	0.057	0.041	0.107	0.054	0.048	0.057
12/25	0.063	0.028	0.02	0.059	0.057	0.041	0.066	0.055	0.048	0.058
12/26	0.063	0.028	0.02	0.059	0.057	0.041	0.056	0.055	0.048	0.142
12/27	0.063	0.029	0.02	0.059	0.057	0.042	0.055	0.055	0.048	0.105
12/28	0.063	0.029	0.02	0.059	0.057	0.042	0.057	0.055	0.048	0.062
12/29	0.063	0.029	0.021	0.059	0.057	0.042	0.8	0.055	0.048	0.058
12/30	0.063	0.029	0.021	0.059	0.057	0.042	2.077	0.055	0.048	0.058
12/31	0.063	0.029	0.021	0.059	0.057	0.042	0.299	0.055	0.048	0.058

Table AE.8: Daily Average Streamflow for 10 years for Momnersteg-Durand Drain.

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.007	0.008	0.002	0.001	0.007	0.007	0.004	0.01	0.011	0.005
1/2	0.007	0.007	0.002	0.001	0.006	0.007	0.004	0.163	0.492	0.005
1/3	0.021	0.007	0.002	0.001	0.006	0.007	0.004	0.017	0.063	0.005
1/4	0.226	0.01	0.002	0.001	0.006	0.007	0.004	0.007	0.007	0.065
1/5	0.281	0.162	0.002	0.001	0.006	0.007	0.004	0.007	0.006	0.207
1/6	0.036	0.13	0.002	0.001	0.006	0.007	0.004	0.007	0.006	0.011
1/7	0.007	0.027	0.002	0.001	0.006	0.007	0.004	0.007	0.006	0.005
1/8	0.007	0.229	0.002	0.001	0.006	0.007	0.004	0.007	0.006	0.005
1/9	0.007	0.019	0.002	0.001	0.006	0.007	0.004	0.007	0.006	0.005
1/10	0.007	0.008	0.002	0.125	0.006	0.007	0.004	0.007	0.006	0.005
1/11	0.007	0.007	0.002	0.042	0.006	0.007	0.004	0.007	0.006	0.009
1/12	0.007	0.007	0.002	0.002	0.006	0.007	0.004	0.007	0.102	0.009
1/13	0.007	0.007	0.002	0.001	0.006	0.006	0.004	0.006	0.302	0.128
1/14	0.006	0.007	0.002	0.001	0.006	0.006	0.004	0.006	0.084	0.069
1/15	0.006	0.007	0.002	0.001	0.006	0.006	0.004	0.006	0.007	0.006
1/16	0.006	0.007	0.002	0.001	0.006	0.006	0.004	0.006	0.006	0.005
1/17	0.006	0.006	0.003	0.001	0.006	0.006	0.004	0.006	0.006	0.01
1/18	0.006	0.006	0.015	0.001	0.006	0.006	0.004	0.006	0.006	0.026
1/19	0.006	0.006	0.002	0.001	0.006	0.006	0.004	0.006	0.006	0.005
1/20	0.006	0.006	0.002	0.001	0.006	0.006	0.004	0.006	0.005	0.005
1/21	0.006	0.006	0.002	0.001	0.006	0.006	0.004	0.006	0.005	0.005
1/22	0.029	0.006	0.147	0.001	0.006	0.006	0.004	0.006	0.005	0.005
1/23	0.02	0.006	0.182	0.001	0.006	0.006	0.004	0.006	0.005	0.005
1/24	0.006	0.006	0.027	0.001	0.006	0.006	0.004	0.006	0.005	0.005
1/25	0.006	0.006	0.003	0.001	0.005	0.006	0.004	0.006	0.005	0.004
1/26	0.006	0.006	0.002	0.001	0.005	0.072	0.004	0.006	0.005	0.004
1/27	0.006	0.006	0.002	0.001	0.005	0.049	0.004	0.006	0.005	0.004
1/28	0.006	0.006	0.002	0.001	0.005	0.007	0.004	0.006	0.005	0.004
1/29	0.006	0.006	0.002	0.001	0.005	0.006	0.004	0.006	0.005	0.814
1/30	0.006	0.006	0.002	0.001	0.005	0.006	0.004	0.006	0.005	0.258
1/31	0.006	0.006	0.002	0.001	0.005	0.006	0.004	0.006	0.005	0.01
2/1	0.006	0.006	0.002	0.001	0.005	0.006	0.004	0.006	0.005	0.004
2/2	0.006	0.006	0.002	0.001	0.005	0.006	0.004	0.006	0.005	0.004
2/3	0.005	0.01	0.002	0.001	0.005	0.006	0.013	0.006	0.005	0.004
2/4	0.131	0.006	0.002	0.001	0.005	0.005	0.061	0.005	0.005	0.004
2/5	0.156	0.006	0.002	0.001	0.005	0.005	0.005	0.005	0.005	0.004
2/6	0.011	0.005	0.002	0.001	0.005	0.005	0.003	0.005	0.005	0.004
2/7	0.021	0.005	0.002	0.001	0.005	0.005	0.003	0.005	0.008	0.004
2/8	0.017	0.014	0.002	0.001	0.01	0.005	0.003	0.005	0.008	0.004
2/9	0.006	0.018	0.002	0.001	1.287	0.005	0.003	0.005	0.005	0.004
2/10	0.005	0.011	0.002	0.001	0.49	0.017	0.003	0.005	0.005	0.004
2/11	0.005	0.025	0.002	0.001	0.022	0.014	0.003	0.005	0.005	0.004
2/12	0.005	0.028	0.002	0.001	0.005	0.005	0.003	0.005	0.005	0.004
2/13	0.005	0.007	0.002	0.001	0.005	0.005	0.003	0.005	0.005	0.004
2/14	0.005	0.005	0.002	0.001	0.005	0.005	0.003	0.005	0.103	0.004
2/15	0.005	0.005	0.002	0.001	0.005	0.005	0.003	0.005	0.416	0.004
2/16	0.005	0.006	0.022	0.001	0.005	0.005	0.003	0.005	0.272	0.252
2/17	0.005	0.17	0.072	0.001	0.004	0.005	0.003	0.005	0.015	0.472
2/18	0.005	0.18	0.005	0.001	0.004	0.005	0.003	0.005	0.005	0.02
2/19	0.202	0.1	0.002	0.001	0.004	0.005	0.003	0.005	0.004	0.004
2/20	0.22	0.057	0.002	0.001	0.004	0.655	0.003	0.064	0.004	0.004
2/21	1.089	0.042	0.002	0.001	0.004	0.262	0.003	0.097	0.004	0.004
2/22	0.155	0.069	0.002	0.001	0.004	0.016	0.003	0.009	0.004	0.004
2/23	0.01	0.056	0.002	0.026	0.004	0.005	0.003	0.005	0.004	0.004
2/24	0.005	0.015	0.002	0.292	0.004	0.005	0.003	0.005	0.004	0.004
2/25	0.005	0.006	0.002	0.34	0.014	0.059	0.003	0.005	0.004	0.004
2/26	0.046	0.007	0.002	0.019	0.013	0.095	0.003	0.005	0.005	0.004
2/27	0.414	0.036	0.002	0.002	0.005	0.053	0.003	0.005	0.005	0.004
2/28	0.147	0.031	0.289	0.001	0.004	0.007	0.003	0.005	0.005	0.004
2/29				0.001				0.008		
3/1	0.252	0.021	0.026	0.071	0.004	0.005	0.003	0.038	0.005	0.004
3/2	0.189	0.011	0.003	0.018	0.004	0.191	0.003	0.082	0.005	0.004
3/3	0.046	0.079	0.002	0.002	0.004	0.174	0.003	0.036	0.005	0.004
3/4	0.016	0.031	0.002	0.001	0.004	0.023	0.003	0.049	0.005	0.004
3/5	0.013	0.019	0.002	0.001	0.004	0.006	0.003	0.591	0.005	0.004
3/6	0.005	0.036	0.002	0.001	0.004	0.005	0.003	0.088	0.008	0.004
3/7	0.005	0.022	0.002	0.001	0.004	0.005	0.003	0.185	0.044	0.004
3/8	0.005	0.144	0.002	0.001	0.004	0.287	0.003	0.091	0.02	0.005
3/9	0.005	0.794	0.002	0.001	0.004	0.445	0.003	0.011	0.005	0.304
3/10	0.146	0.335	0.002	0.001	0.004	0.15	0.003	0.007	0.005	0.432
3/11	0.089	0.017	0.002	0.002	0.004	0.01	0.003	0.028	0.005	0.063
3/12	0.008	0.005	0.002	0.002	0.005	0.005	0.003	0.014	0.005	0.076
3/13	0.005	0.005	0.002	0.002	0.005	0.025	0.003	0.005	0.005	0.538
3/14	0.332	0.005	0.002	0.002	0.013	0.032	0.003	0.005	0.005	0.069
3/15	0.142	0.005	0.002	0.015	0.009	0.039	0.017	0.005	0.005	0.007
3/16	0.01	0.005	0.002	0.068	0.005	0.017	0.009	0.005	0.005	0.004
3/17	0.115	0.077	0.002	0.004	0.005	0.005	0.003	0.005	0.005	0.004
3/18	0.052	0.168	0.002	0.002	0.005	0.005	0.003	0.005	0.005	0.004
3/19	0.006	0.234	0.002	0.002	0.005	0.005	0.003	0.067	0.005	0.004
3/20	0.017	0.039	0.002	0.002	0.005	0.024	0.003	0.246	0.005	0.004
3/21	0.128	0.006	0.002	0.002	0.005	0.008	0.003	0.044	0.005	0.004
3/22	0.075	0.005	0.002	0.002	0.005	0.005	0.003	0.006	0.005	0.004
3/23	0.007	0.005	0.003	0.002	0.005	0.083	0.003	0.005	0.005	0.005
3/24	0.005	0.034	0.003	0.002	0.005	0.033	0.003	0.022	0.005	0.005
3/25	0.419	0.16	0.003	0.002	0.005	0.006	0.003	0.055	0.005	0.005
3/26	0.065	0.212	0.003	0.002	0.005	0.005	0.003	0.297	0.005	0.005
3/27	0.011	0.201	0.003	0.002	0.005	0.005	0.004	0.155	0.005	0.005
3/28	0.209	0.295	0.003	0.002	0.005	0.005	0.004	0.085	0.005	0.005
3/29	0.459	0.052	0.003	0.002	0.005	0.019	0.004	0.158	0.005	0.005
3/30	0.227	0.006	0.003	0.002	0.005	0.037	0.004	0.549	0.005	0.005
3/31	0.069	0.005	0.003	0.002	0.005	0.006	0.004	0.122	0.005	0.09
4/1	0.007	0.087	0.003	0.002	0.005	0.057	0.004	0.112	0.005	0.316
4/2	0.045	0.114	0.003	0.002	0.005	0.146	0.004	0.071	0.005	0.041

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	0.152	0.02	0.014	0.002	0.005	0.135	0.098	0.087	0.005	0.188
4/4	0.157	0.005	0.004	0.002	0.005	0.012	0.033	0.037	0.005	0.123
4/5	0.281	0.005	0.003	0.002	0.005	0.005	0.005	0.006	0.005	0.022
4/6	0.311	0.005	0.003	0.002	0.005	0.005	0.004	0.005	0.053	0.015
4/7	0.106	0.005	0.003	0.003	0.005	0.005	0.004	0.005	0.153	0.244
4/8	0.014	0.005	0.004	0.003	0.005	0.263	0.004	0.005	0.133	0.05
4/9	0.005	0.005	0.004	0.003	0.166	0.28	0.004	0.005	0.15	0.006
4/10	0.005	0.005	0.004	0.003	0.077	0.014	0.004	0.005	0.068	0.03
4/11	0.005	0.005	0.004	0.003	0.086	0.005	0.004	0.005	0.007	0.029
4/12	0.073	0.005	0.004	0.003	0.219	0.236	0.005	0.007	0.005	0.202
4/13	0.085	0.005	0.004	0.003	0.141	0.005	0.005	0.105	0.005	0.065
4/14	0.036	0.005	0.004	0.003	0.109	0.005	0.005	0.067	0.005	0.007
4/15	0.006	0.005	0.004	0.003	0.093	0.005	0.005	0.077	0.005	0.005
4/16	0.113	0.005	0.004	0.003	0.235	0.005	0.005	0.133	0.005	0.005
4/17	0.024	0.005	0.004	0.003	0.1	0.005	0.005	0.247	0.005	0.005
4/18	0.006	0.005	0.004	0.003	0.005	0.005	0.005	0.225	0.005	0.005
4/19	0.005	0.005	0.004	0.003	0.005	0.005	0.005	0.028	0.005	0.005
4/20	0.005	0.005	0.005	0.015	0.005	0.005	0.005	0.006	0.005	0.005
4/21	0.005	0.005	0.005	0.013	0.005	0.005	0.005	0.011	0.005	0.005
4/22	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.018	0.005	0.005
4/23	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.006	0.005	0.005
4/24	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.005	0.005	0.005
4/25	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.005	0.005	0.005
4/26	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.005	0.005	0.005
4/27	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.005	0.012	0.005
4/28	0.005	0.005	0.005	0.003	0.005	0.005	0.005	0.006	0.014	0.005
4/29	0.006	0.006	0.005	0.003	0.006	0.006	0.005	0.006	0.007	0.006
4/30	0.006	0.006	0.005	0.003	0.006	0.006	0.006	0.006	0.006	0.006
5/1	0.006	0.006	0.005	0.004	0.006	0.006	0.023	0.006	0.006	0.006
5/2	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.175	0.006	0.006
5/3	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.022	0.006	0.006
5/4	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/5	0.009	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/6	0.014	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/7	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/8	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.222	0.006	0.006
5/9	0.046	0.006	0.005	0.004	0.006	0.006	0.006	0.363	0.006	0.006
5/10	0.08	0.006	0.005	0.004	0.006	0.006	0.006	0.117	0.006	0.006
5/11	0.01	0.006	0.005	0.004	0.006	0.006	0.006	0.009	0.006	0.006
5/12	0.008	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/13	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.006	0.006	0.006
5/14	0.006	0.006	0.005	0.004	0.006	0.006	0.006	0.015	0.006	0.006
5/15	0.451	0.006	0.005	0.004	0.006	0.006	0.006	0.02	0.006	0.006
5/16	0.203	0.006	0.005	0.004	0.006	0.035	0.006	0.007	0.006	0.006
5/17	0.094	0.006	0.005	0.004	0.006	0.018	0.006	0.006	0.006	0.006
5/18	0.046	0.006	0.006	0.004	0.006	0.007	0.006	0.007	0.006	0.006
5/19	0.118	0.007	0.006	0.004	0.007	0.007	0.007	0.007	0.007	0.007
5/20	0.009	0.007	0.006	0.004	0.007	0.007	0.007	0.007	0.007	0.007

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	0.007	0.007	0.006	0.004	0.007	0.007	0.007	0.007	0.007	0.007
5/22	0.007	0.007	0.006	0.004	0.007	0.007	0.007	0.355	0.007	0.007
5/23	0.007	0.007	0.006	0.012	0.007	0.007	0.007	0.648	0.007	0.007
5/24	0.007	0.007	0.006	0.019	0.007	0.007	0.007	0.25	0.007	0.007
5/25	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.012	0.007	0.007
5/26	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
5/27	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
5/28	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
5/29	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
5/30	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
5/31	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/1	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/2	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/3	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/4	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/5	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/6	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.007	0.007	0.007
6/7	0.007	0.007	0.006	0.005	0.007	0.007	0.007	0.008	0.007	0.007
6/8	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/9	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/10	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/11	0.008	0.007	0.006	0.039	0.008	0.008	0.008	0.008	0.008	0.008
6/12	0.008	0.007	0.006	0.031	0.008	0.008	0.008	0.008	0.008	0.008
6/13	0.008	0.007	0.006	0.006	0.008	0.008	0.008	0.008	0.008	0.008
6/14	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/15	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/16	0.008	0.007	0.006	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/17	0.008	0.007	0.005	0.005	0.008	0.008	0.008	0.008	0.008	0.008
6/18	0.008	0.007	0.005	0.005	0.008	0.008	0.01	0.008	0.008	0.008
6/19	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.008
6/20	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.008
6/21	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.008
6/22	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.008
6/23	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.007
6/24	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.007
6/25	0.008	0.007	0.005	0.125	0.008	0.008	0.008	0.008	0.008	0.007
6/26	0.008	0.007	0.005	0.015	0.008	0.008	0.008	0.008	0.008	0.007
6/27	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.008	0.007
6/28	0.008	0.007	0.005	0.006	0.008	0.008	0.008	0.008	0.007	0.007
6/29	0.008	0.006	0.005	0.006	0.008	0.008	0.008	0.008	0.007	0.007
6/30	0.008	0.006	0.005	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/1	0.008	0.006	0.005	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/2	0.008	0.006	0.005	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/3	0.008	0.006	0.004	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/4	0.008	0.006	0.004	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/5	0.008	0.006	0.004	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/6	0.008	0.006	0.004	0.006	0.008	0.008	0.008	0.008	0.007	0.007
7/7	0.008	0.006	0.004	0.006	0.007	0.008	0.007	0.008	0.007	0.007

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.008	0.006	0.004	0.006	0.007	0.008	0.007	0.008	0.007	0.006
7/9	0.008	0.006	0.004	1.422	0.007	0.008	0.007	0.008	0.007	0.006
7/10	0.008	0.006	0.004	0.543	0.007	0.008	0.007	0.008	0.007	0.006
7/11	0.008	0.006	0.004	0.052	0.007	0.008	0.007	0.008	0.007	0.006
7/12	0.008	0.006	0.004	0.011	0.007	0.008	0.007	0.008	0.006	0.006
7/13	0.008	0.006	0.004	0.007	0.007	0.008	0.007	0.008	0.006	0.006
7/14	0.008	0.006	0.004	0.007	0.007	0.008	0.007	0.008	0.006	0.006
7/15	0.008	0.006	0.004	0.007	0.007	0.008	0.007	0.008	0.006	0.006
7/16	0.008	0.006	0.004	0.007	0.007	0.007	0.007	0.008	0.393	0.006
7/17	0.008	0.006	0.004	0.007	0.007	0.007	0.007	0.008	0.145	0.006
7/18	0.008	0.005	0.004	0.007	0.007	0.007	0.007	0.008	0.018	0.006
7/19	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/20	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/21	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/22	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/23	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/24	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/25	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/26	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/27	0.008	0.005	0.003	0.007	0.007	0.007	0.007	0.008	0.007	0.006
7/28	0.008	0.005	0.003	0.007	0.006	0.007	0.007	0.008	0.007	0.006
7/29	0.008	0.005	0.003	0.007	0.006	0.007	0.007	0.009	0.007	0.006
7/30	0.008	0.005	0.003	0.007	0.006	0.007	0.007	0.009	0.007	0.006
7/31	0.008	0.005	0.003	0.007	0.006	0.007	0.007	0.009	0.007	0.006
8/1	0.007	0.005	0.003	0.007	0.006	0.007	0.007	0.009	0.007	0.006
8/2	0.007	0.005	0.003	0.008	0.006	0.007	0.007	0.009	0.006	0.005
8/3	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/4	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/5	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/6	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/7	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/8	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/9	0.007	0.005	0.003	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/10	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/11	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/12	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/13	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/14	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.006
8/15	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/16	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/17	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/18	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/19	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/20	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/21	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/22	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/23	0.007	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/24	0.008	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.008	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/26	0.008	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/27	0.008	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/28	0.008	0.004	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
8/29	0.008	0.004	0.002	0.008	0.005	0.007	0.006	0.009	0.006	0.005
8/30	0.008	0.004	0.002	0.008	0.005	0.007	0.006	0.009	0.006	0.005
8/31	0.008	0.004	0.002	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/1	0.008	0.004	0.002	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/2	0.008	0.004	0.002	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/3	0.008	0.004	0.001	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/4	0.008	0.004	0.001	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/5	0.008	0.004	0.001	0.008	0.005	0.007	0.006	0.009	0.006	0.005
9/6	0.008	0.004	0.001	0.007	0.005	0.007	0.006	0.009	0.006	0.005
9/7	0.008	0.004	0.001	0.007	0.005	0.007	0.006	0.009	0.006	0.005
9/8	0.008	0.004	0.001	0.007	0.005	0.007	0.006	0.009	0.006	0.005
9/9	0.008	0.004	0.001	0.007	0.005	0.007	0.006	0.009	0.006	0.005
9/10	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/11	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/12	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/13	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/14	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/15	0.008	0.004	0.001	0.007	0.005	0.007	0.005	0.009	0.006	0.005
9/16	0.008	0.004	0.001	0.008	0.005	0.007	0.005	0.009	0.006	0.005
9/17	0.008	0.004	0.001	0.008	0.005	0.006	0.005	0.009	0.006	0.005
9/18	0.008	0.004	0.001	0.008	0.005	0.006	0.005	0.009	0.006	0.005
9/19	0.008	0.003	0.001	0.008	0.005	0.006	0.005	0.009	0.006	0.005
9/20	0.008	0.003	0.001	0.008	0.005	0.006	0.005	0.009	0.006	0.005
9/21	0.008	0.003	0.001	0.008	0.005	0.006	0.005	0.009	0.006	0.004
9/22	0.008	0.003	0.001	0.008	0.005	0.006	0.005	0.008	0.005	0.004
9/23	0.008	0.003	0.001	0.081	0.005	0.006	0.005	0.008	0.005	0.004
9/24	0.008	0.003	0.000982	0.019	0.005	0.006	0.005	0.008	0.005	0.004
9/25	0.007	0.003	0.000968	0.009	0.005	0.006	0.005	0.008	0.005	0.004
9/26	0.007	0.003	0.000947	0.008	0.005	0.006	0.005	0.008	0.005	0.004
9/27	0.007	0.003	0.000926	0.009	0.005	0.006	0.005	0.008	0.005	0.004
9/28	0.007	0.003	0.000905	0.009	0.005	0.006	0.005	0.008	0.005	0.004
9/29	0.007	0.003	0.000885	0.009	0.005	0.006	0.005	0.008	0.006	0.004
9/30	0.007	0.003	0.000875	0.009	0.005	0.006	0.005	0.008	0.006	0.004
10/1	0.007	0.003	0.000868	0.009	0.005	0.006	0.005	0.008	0.006	0.004
10/2	0.007	0.003	0.000858	0.009	0.005	0.006	0.005	0.008	0.006	0.004
10/3	0.007	0.003	0.000847	0.009	0.005	0.006	0.005	0.008	0.006	0.004
10/4	0.007	0.003	0.000836	0.009	0.005	0.005	0.006	0.008	0.006	0.004
10/5	0.007	0.003	0.000823	0.009	0.005	0.005	0.006	0.008	0.006	0.005
10/6	0.007	0.003	0.000808	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/7	0.007	0.003	0.000791	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/8	0.007	0.003	0.000775	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/9	0.007	0.003	0.000764	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/10	0.007	0.003	0.000752	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/11	0.007	0.003	0.000738	0.009	0.005	0.005	0.006	0.007	0.006	0.005

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.007	0.002	0.000723	0.009	0.005	0.005	0.006	0.007	0.006	0.005
10/13	0.007	0.002	0.000709	0.009	0.006	0.005	0.006	0.007	0.006	0.005
10/14	0.007	0.002	0.000699	0.009	0.006	0.005	0.006	0.007	0.006	0.005
10/15	0.007	0.002	0.000691	0.009	0.006	0.005	0.006	0.007	0.006	0.005
10/16	0.007	0.002	0.000678	0.008	0.006	0.005	0.006	0.007	0.006	0.005
10/17	0.007	0.002	0.000668	0.008	0.006	0.005	0.006	0.007	0.006	0.005
10/18	0.007	0.002	0.000661	0.008	0.006	0.005	0.006	0.007	0.006	0.005
10/19	0.006	0.002	0.000649	0.008	0.006	0.005	0.006	0.007	0.006	0.005
10/20	0.006	0.002	0.000636	0.008	0.006	0.005	0.006	0.007	0.006	0.005
10/21	0.024	0.002	0.000624	0.008	0.006	0.005	0.006	0.007	0.006	0.006
10/22	0.029	0.002	0.000613	0.008	0.006	0.005	0.006	0.007	0.006	0.006
10/23	0.008	0.002	0.000609	0.008	0.007	0.005	0.006	0.007	0.006	0.006
10/24	0.006	0.002	0.000607	0.008	0.007	0.005	0.006	0.007	0.005	0.006
10/25	0.007	0.002	0.000608	0.008	0.007	0.005	0.006	0.007	0.005	0.006
10/26	0.007	0.002	0.000608	0.008	0.007	0.005	0.006	0.007	0.005	0.006
10/27	0.007	0.002	0.000606	0.008	0.007	0.005	0.006	0.007	0.005	0.006
10/28	0.007	0.002	0.000604	0.008	0.007	0.005	0.007	0.007	0.005	0.006
10/29	0.007	0.002	0.000601	0.008	0.007	0.005	0.007	0.007	0.005	0.006
10/30	0.007	0.002	0.000599	0.008	0.007	0.004	0.007	0.006	0.005	0.006
10/31	0.007	0.002	0.000596	0.008	0.007	0.004	0.007	0.006	0.005	0.006
11/1	0.007	0.002	0.000594	0.008	0.007	0.004	0.007	0.006	0.005	0.006
11/2	0.007	0.002	0.000591	0.008	0.007	0.004	0.007	0.006	0.005	0.006
11/3	0.007	0.002	0.00059	0.008	0.007	0.004	0.007	0.006	0.005	0.006
11/4	0.007	0.002	0.000598	0.008	0.007	0.004	0.007	0.006	0.005	0.006
11/5	0.007	0.002	0.000614	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/6	0.007	0.002	0.00063	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/7	0.007	0.002	0.000644	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/8	0.007	0.002	0.000654	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/9	0.007	0.002	0.000663	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/10	0.007	0.002	0.000669	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/11	0.007	0.002	0.000675	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/12	0.007	0.002	0.00068	0.007	0.007	0.004	0.007	0.006	0.005	0.006
11/13	0.007	0.002	0.000683	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/14	0.007	0.002	0.000686	0.007	0.007	0.004	0.007	0.006	0.005	0.008
11/15	0.007	0.002	0.000688	0.007	0.007	0.004	0.007	0.006	0.145	0.006
11/16	0.007	0.002	0.000692	0.007	0.007	0.004	0.007	0.006	0.185	0.006
11/17	0.007	0.002	0.000695	0.007	0.007	0.004	0.007	0.006	0.011	0.006
11/18	0.007	0.002	0.000698	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/19	0.007	0.002	0.0007	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/20	0.007	0.002	0.000703	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/21	0.007	0.002	0.000708	0.007	0.007	0.004	0.007	0.006	0.005	0.007

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/22	0.007	0.002	0.000712	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/23	0.007	0.002	0.000715	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/24	0.007	0.002	0.000719	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/25	0.007	0.002	0.000723	0.007	0.024	0.004	0.007	0.006	0.005	0.007
11/26	0.007	0.002	0.000728	0.007	0.008	0.004	0.007	0.006	0.005	0.007
11/27	0.008	0.002	0.000735	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/28	0.008	0.002	0.000743	0.007	0.007	0.004	0.007	0.006	0.005	0.007
11/29	0.008	0.002	0.000751	0.007	0.007	0.004	0.007	0.006	0.055	0.007
11/30	0.008	0.002	0.000759	0.007	0.007	0.004	0.007	0.006	0.007	0.007
12/1	0.008	0.002	0.000765	0.007	0.007	0.004	0.007	0.011	0.005	0.169
12/2	0.008	0.002	0.000773	0.007	0.007	0.004	0.007	0.006	0.005	0.024
12/3	0.008	0.002	0.00078	0.007	0.007	0.004	0.007	0.006	0.005	0.007
12/4	0.008	0.002	0.000789	0.007	0.007	0.005	0.007	0.006	0.005	0.007
12/5	0.008	0.002	0.000797	0.007	0.007	0.005	0.007	0.006	0.005	0.007
12/6	0.008	0.021	0.000808	0.007	0.007	0.005	0.007	0.006	0.005	0.007
12/7	0.008	0.058	0.000827	0.007	0.007	0.005	0.007	0.077	0.005	0.007
12/8	0.008	0.003	0.000849	0.007	0.007	0.005	0.007	0.024	0.005	0.007
12/9	0.008	0.002	0.000869	0.007	0.007	0.005	0.007	0.007	0.005	0.007
12/10	0.008	0.002	0.000889	0.007	0.007	0.005	0.019	0.006	0.005	0.007
12/11	0.008	0.002	0.000909	0.007	0.007	0.005	0.02	0.006	0.005	0.007
12/12	0.008	0.002	0.000928	0.007	0.007	0.005	0.008	0.006	0.005	0.007
12/13	0.008	0.002	0.000947	0.007	0.007	0.005	0.008	0.006	0.005	0.007
12/14	0.008	0.002	0.03	0.007	0.007	0.005	0.008	0.006	0.005	0.007
12/15	0.008	0.002	0.038	0.007	0.007	0.005	0.008	0.006	0.005	0.007
12/16	0.008	0.002	0.005	0.072	0.007	0.005	0.008	0.006	0.005	0.007
12/17	0.008	0.002	0.001	0.131	0.007	0.005	0.008	0.007	0.005	0.007
12/18	0.008	0.002	0.001	0.01	0.007	0.005	0.008	0.007	0.005	0.007
12/19	0.008	0.002	0.001	0.007	0.009	0.016	0.008	0.007	0.005	0.007
12/20	0.008	0.002	0.001	0.007	0.015	0.072	0.008	0.007	0.005	0.007
12/21	0.008	0.002	0.001	0.007	0.008	0.006	0.008	0.007	0.005	0.007
12/22	0.008	0.002	0.001	0.007	0.008	0.005	0.008	0.007	0.005	0.007
12/23	0.008	0.002	0.001	0.007	0.008	0.005	0.023	0.007	0.005	0.007
12/24	0.008	0.002	0.001	0.007	0.008	0.005	0.011	0.007	0.005	0.007
12/25	0.008	0.002	0.001	0.007	0.008	0.005	0.008	0.007	0.005	0.007
12/26	0.008	0.002	0.001	0.007	0.008	0.005	0.008	0.007	0.005	0.047
12/27	0.008	0.002	0.001	0.007	0.008	0.005	0.008	0.007	0.005	0.011
12/28	0.008	0.002	0.001	0.007	0.008	0.005	0.008	0.007	0.006	0.008
12/29	0.008	0.002	0.001	0.007	0.008	0.005	0.318	0.007	0.006	0.008
12/30	0.008	0.002	0.001	0.007	0.008	0.005	0.245	0.007	0.006	0.008
12/31	0.008	0.002	0.001	0.007	0.008	0.005	0.012	0.007	0.006	0.059

Table AE.9: Daily Average Streamflow for 10 years for Zurich Drain.

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.085	0.087	0.036	0.043	0.079	0.082	0.078	0.265	0.154	0.064
1/2	0.082	0.095	0.034	0.051	0.075	0.078	0.06	1.091	2.215	0.084
1/3	0.165	0.139	0.034	0.037	0.074	0.077	0.054	0.37	1.386	0.12
1/4	1.232	0.171	0.034	0.035	0.073	0.076	0.052	0.158	0.42	0.282
1/5	2.249	0.598	0.033	0.026	0.073	0.076	0.051	0.101	0.174	1.295
1/6	0.95	1.128	0.033	0.023	0.072	0.075	0.051	0.083	0.102	0.455
1/7	0.312	0.414	0.033	0.022	0.072	0.075	0.05	0.077	0.08	0.171
1/8	0.149	1.395	0.033	0.023	0.071	0.074	0.05	0.074	0.072	0.094
1/9	0.103	0.531	0.033	0.035	0.071	0.075	0.051	0.073	0.069	0.07
1/10	0.086	0.238	0.033	0.501	0.07	0.092	0.06	0.072	0.068	0.063
1/11	0.08	0.132	0.032	0.586	0.07	0.122	0.052	0.072	0.067	0.115
1/12	0.077	0.096	0.032	0.17	0.069	0.115	0.05	0.071	0.44	0.143
1/13	0.075	0.083	0.032	0.066	0.069	0.094	0.049	0.071	1.679	0.567
1/14	0.074	0.078	0.032	0.036	0.068	0.079	0.048	0.07	1.397	0.786
1/15	0.074	0.075	0.032	0.026	0.085	0.073	0.048	0.07	0.443	0.261
1/16	0.073	0.074	0.031	0.023	0.105	0.071	0.047	0.069	0.198	0.125
1/17	0.073	0.073	0.033	0.022	0.079	0.07	0.047	0.069	0.113	0.105
1/18	0.072	0.073	0.112	0.021	0.071	0.069	0.047	0.068	0.083	0.218
1/19	0.071	0.072	0.053	0.021	0.067	0.068	0.046	0.068	0.071	0.102
1/20	0.071	0.072	0.038	0.021	0.065	0.068	0.046	0.067	0.066	0.073
1/21	0.07	0.071	0.034	0.021	0.064	0.067	0.046	0.067	0.064	0.068
1/22	0.151	0.07	0.601	0.021	0.064	0.067	0.045	0.066	0.063	0.059
1/23	0.289	0.07	1.305	0.021	0.063	0.073	0.045	0.066	0.062	0.056
1/24	0.13	0.069	0.683	0.021	0.063	0.103	0.044	0.065	0.061	0.054
1/25	0.088	0.069	0.253	0.021	0.062	0.088	0.044	0.065	0.061	0.054
1/26	0.074	0.068	0.112	0.021	0.061	0.271	0.044	0.064	0.061	0.053
1/27	0.069	0.067	0.062	0.021	0.061	0.52	0.043	0.064	0.06	0.053
1/28	0.067	0.068	0.045	0.021	0.06	0.235	0.043	0.063	0.06	0.065
1/29	0.066	0.089	0.039	0.021	0.06	0.149	0.043	0.063	0.059	3.853
1/30	0.065	0.092	0.033	0.02	0.065	0.1	0.042	0.062	0.059	3.952
1/31	0.064	0.078	0.03	0.02	0.062	0.075	0.042	0.062	0.058	1.172
2/1	0.064	0.077	0.032	0.02	0.063	0.067	0.042	0.061	0.058	0.422
2/2	0.063	0.094	0.052	0.02	0.059	0.063	0.041	0.061	0.057	0.182
2/3	0.063	0.102	0.057	0.02	0.058	0.061	0.05	0.06	0.057	0.167
2/4	0.469	0.078	0.052	0.02	0.057	0.06	0.384	0.06	0.058	0.121
2/5	1.314	0.068	0.044	0.02	0.056	0.059	0.15	0.059	0.062	0.094
2/6	0.431	0.065	0.035	0.02	0.055	0.059	0.078	0.059	0.059	0.066
2/7	0.253	0.067	0.031	0.019	0.055	0.058	0.054	0.058	0.081	0.056
2/8	0.25	0.085	0.029	0.019	0.086	0.058	0.045	0.057	0.133	0.051
2/9	0.122	0.119	0.03	0.019	6.185	0.062	0.041	0.057	0.085	0.049
2/10	0.082	0.121	0.035	0.019	6.336	0.11	0.039	0.056	0.066	0.048
2/11	0.067	0.141	0.057	0.019	2.03	0.146	0.038	0.056	0.058	0.048
2/12	0.061	0.179	0.083	0.019	0.776	0.086	0.038	0.055	0.055	0.047
2/13	0.058	0.109	0.05	0.019	0.334	0.067	0.037	0.055	0.053	0.047
2/14	0.057	0.076	0.035	0.018	0.167	0.059	0.037	0.054	0.392	0.046
2/15	0.056	0.064	0.035	0.018	0.102	0.064	0.036	0.054	2.016	0.046
2/16	0.055	0.06	0.052	0.018	0.072	0.075	0.036	0.053	2.915	0.846
2/17	0.055	0.674	0.129	0.018	0.06	0.061	0.036	0.053	0.943	3.707
2/18	0.059	1.381	0.067	0.018	0.054	0.056	0.036	0.053	0.379	1.125
2/19	0.936	1.049	0.043	0.018	0.052	0.06	0.036	0.053	0.18	0.429
2/20	1.633	0.65	0.033	0.018	0.051	2.882	0.036	0.232	0.104	0.192
2/21	6.714	0.447	0.029	0.018	0.051	3.045	0.038	0.733	0.073	0.104
2/22	3.456	0.509	0.028	0.026	0.051	1.019	0.046	0.266	0.06	0.07
2/23	1.18	0.504	0.027	0.128	0.05	0.406	0.04	0.133	0.055	0.058
2/24	0.473	0.305	0.027	1.212	0.05	0.206	0.038	0.086	0.053	0.056
2/25	0.219	0.169	0.027	2.885	0.136	0.283	0.037	0.067	0.052	0.05
2/26	0.326	0.141	0.028	0.969	0.164	0.579	0.037	0.059	0.052	0.048
2/27	2.012	0.231	0.03	0.384	0.09	0.658	0.036	0.06	0.052	0.048
2/28	1.506	0.296	1.413	0.169	0.066	0.25	0.036	0.077	0.052	0.047
2/29				0.085				0.113		
3/1	1.496	0.221	0.667	0.328	0.058	0.128	0.036	0.2	0.052	0.047
3/2	1.485	0.159	0.257	0.253	0.055	0.756	0.036	0.438	0.052	0.048
3/3	0.74	0.402	0.118	0.101	0.061	1.529	0.036	0.284	0.052	0.048
3/4	0.313	0.405	0.065	0.057	0.065	0.61	0.036	0.245	0.052	0.048
3/5	0.197	0.223	0.044	0.043	0.056	0.25	0.036	2.745	0.052	0.048
3/6	0.116	0.272	0.035	0.038	0.053	0.13	0.037	1.567	0.072	0.048
3/7	0.079	0.268	0.032	0.032	0.052	0.085	0.037	1.252	0.236	0.049
3/8	0.065	0.641	0.03	0.025	0.051	1.165	0.037	1.153	0.267	0.071
3/9	0.059	3.935	0.03	0.031	0.051	2.685	0.037	0.42	0.122	1.297
3/10	0.558	4.107	0.03	0.038	0.051	1.984	0.037	0.193	0.079	2.922
3/11	0.875	1.348	0.03	0.027	0.051	0.682	0.037	0.196	0.063	1.273
3/12	0.305	0.534	0.03	0.028	0.051	0.293	0.037	0.194	0.057	0.694
3/13	0.146	0.244	0.03	0.037	0.061	0.244	0.037	0.098	0.055	3.013
3/14	1.361	0.133	0.034	0.05	0.127	0.207	0.037	0.07	0.054	1.63
3/15	1.688	0.088	0.053	0.08	0.164	0.107	0.123	0.06	0.053	0.583
3/16	0.564	0.069	0.069	0.418	0.098	0.076	0.227	0.056	0.053	0.252
3/17	0.6	0.289	0.072	0.143	0.07	0.063	0.212	0.055	0.053	0.13
3/18	0.555	0.93	0.106	0.066	0.062	0.058	0.172	0.054	0.062	0.084
3/19	0.218	1.949	0.084	0.04	0.066	0.056	0.096	0.296	0.085	0.065
3/20	0.149	1.021	0.058	0.031	0.082	0.123	0.07	1.415	0.104	0.058
3/21	0.438	0.356	0.062	0.027	0.126	0.104	0.069	0.85	0.074	0.055
3/22	0.58	0.161	0.058	0.026	0.115	0.07	0.072	0.306	0.067	0.053
3/23	0.209	0.095	0.054	0.026	0.093	0.357	0.059	0.144	0.06	0.053
3/24	0.109	0.19	0.062	0.026	0.073	0.428	0.06	0.14	0.058	0.056
3/25	1.82	0.788	0.044	0.033	0.06	0.167	0.076	0.419	0.061	0.066
3/26	1.144	1.812	0.039	0.03	0.056	0.094	0.071	1.466	0.056	0.09
3/27	0.423	1.77	0.037	0.093	0.055	0.069	0.06	1.57	0.056	0.094
3/28	0.952	1.803	0.037	0.076	0.061	0.06	0.097	0.941	0.079	0.068
3/29	3.197	1.018	0.037	0.052	0.076	0.089	0.158	0.979	0.15	0.061
3/30	2.389	0.358	0.046	0.039	0.081	0.28	0.095	3.015	0.171	0.076
3/31	1.358	0.162	0.069	0.034	0.074	0.12	0.062	1.61	0.137	0.324
4/1	0.47	0.515	0.098	0.032	0.094	0.276	0.069	1.043	0.114	2.342
4/2	0.359	0.903	0.113	0.034	0.1	0.616	0.069	0.73	0.116	0.919

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	1.017	0.42	0.186	0.034	0.075	1.093	0.34	0.657	0.101	1.37
4/4	1.329	0.172	0.157	0.08	0.072	0.39	0.41	0.481	0.078	1.54
4/5	2.039	0.097	0.14	0.081	0.082	0.168	0.174	0.197	0.096	0.724
4/6	2.634	0.072	0.111	0.054	0.126	0.097	0.093	0.109	0.282	0.36
4/7	1.755	0.063	0.113	0.051	0.161	0.071	0.065	0.078	0.982	2.248
4/8	0.666	0.091	0.11	0.056	0.15	0.821	0.056	0.067	1.056	1.567
4/9	0.266	0.087	0.073	0.042	1.069	2.187	0.066	0.074	1.142	0.525
4/10	0.134	0.069	0.064	0.037	1.002	0.681	0.074	0.073	0.674	0.22
4/11	0.087	0.062	0.097	0.035	0.901	0.268	0.064	0.062	0.262	0.117
4/12	0.363	0.059	0.123	0.035	1.549	0.858	0.077	0.065	0.132	0.569
4/13	0.41	0.058	0.077	0.034	1.397	1.215	0.073	0.48	0.085	0.771
4/14	0.162	0.066	0.061	0.034	1.036	0.444	0.081	0.437	0.067	0.274
4/15	0.098	0.082	0.055	0.035	0.904	0.204	0.124	0.513	0.06	0.132
4/16	0.191	0.086	0.069	0.035	1.387	0.117	0.143	0.73	0.058	0.083
4/17	0.172	0.143	0.071	0.041	1.257	0.083	0.11	1.527	0.057	0.067
4/18	0.1	0.093	0.06	0.041	0.417	0.069	0.101	1.704	0.057	0.062
4/19	0.076	0.073	0.056	0.038	0.196	0.104	0.087	0.786	0.057	0.06
4/20	0.067	0.066	0.055	0.166	0.119	0.081	0.069	0.319	0.101	0.059
4/21	0.064	0.063	0.055	0.338	0.118	0.068	0.068	0.183	0.09	0.059
4/22	0.106	0.062	0.15	0.147	0.096	0.064	0.079	0.187	0.072	0.074
4/23	0.085	0.062	0.146	0.081	0.074	0.062	0.068	0.103	0.113	0.12
4/24	0.072	0.062	0.091	0.057	0.067	0.062	0.063	0.077	0.147	0.088
4/25	0.067	0.063	0.072	0.047	0.064	0.087	0.061	0.068	0.124	0.075
4/26	0.066	0.063	0.065	0.044	0.063	0.075	0.06	0.066	0.113	0.069
4/27	0.066	0.064	0.062	0.042	0.078	0.068	0.061	0.092	0.156	0.066
4/28	0.096	0.065	0.061	0.042	0.069	0.132	0.061	0.081	0.116	0.065
4/29	0.08	0.065	0.061	0.042	0.066	0.118	0.061	0.072	0.09	0.065
4/30	0.072	0.066	0.062	0.042	0.065	0.086	0.064	0.068	0.074	0.065
5/1	0.08	0.083	0.062	0.071	0.065	0.074	0.271	0.108	0.069	0.065
5/2	0.082	0.127	0.062	0.083	0.066	0.138	0.242	0.899	0.067	0.066
5/3	0.226	0.132	0.062	0.058	0.066	0.104	0.129	0.484	0.075	0.066
5/4	0.188	0.093	0.063	0.049	0.068	0.082	0.088	0.203	0.07	0.067
5/5	0.134	0.081	0.063	0.046	0.077	0.074	0.091	0.145	0.068	0.068
5/6	0.191	0.074	0.063	0.044	0.072	0.077	0.183	0.102	0.068	0.068
5/7	0.116	0.072	0.063	0.044	0.07	0.081	0.105	0.1	0.069	0.069
5/8	0.097	0.071	0.066	0.044	0.089	0.073	0.081	0.979	0.069	0.069
5/9	0.234	0.071	0.085	0.083	0.098	0.117	0.073	2.108	0.069	0.07
5/10	0.629	0.073	0.072	0.235	0.081	0.104	0.07	1.386	0.07	0.071
5/11	0.236	0.128	0.067	0.145	0.091	0.084	0.224	0.472	0.071	0.142
5/12	0.142	0.106	0.065	0.117	0.086	0.144	0.207	0.214	0.071	0.111
5/13	0.096	0.085	0.065	0.097	0.076	0.143	0.144	0.126	0.091	0.085
5/14	0.083	0.078	0.065	0.066	0.077	0.096	0.098	0.125	0.176	0.078
5/15	2.025	0.076	0.065	0.055	0.075	0.082	0.081	0.228	0.136	0.075
5/16	2.386	0.076	0.065	0.051	0.074	0.24	0.12	0.123	0.093	0.107
5/17	1.371	0.076	0.109	0.049	0.074	0.298	0.117	0.093	0.08	0.1
5/18	0.538	0.077	0.102	0.239	0.075	0.144	0.088	0.086	0.077	0.175
5/19	1.122	0.077	0.096	0.154	0.075	0.1	0.079	0.082	0.076	0.131
5/20	0.344	0.078	0.077	0.104	0.076	0.085	0.091	0.079	0.076	0.109

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	0.161	0.078	0.07	0.069	0.081	0.08	0.09	0.08	0.077	0.114
5/22	0.108	0.079	0.067	0.058	0.189	0.079	0.081	1.402	0.077	0.091
5/23	0.091	0.079	0.066	0.097	0.16	0.079	0.079	4.697	0.078	0.083
5/24	0.085	0.08	0.149	0.363	0.106	0.09	0.169	3.47	0.078	0.08
5/25	0.09	0.084	0.16	0.186	0.13	0.084	0.112	1.026	0.079	0.08
5/26	0.089	0.09	0.213	0.099	0.108	0.082	0.09	0.384	0.079	0.095
5/27	0.086	0.084	0.127	0.072	0.109	0.081	0.092	0.185	0.08	0.088
5/28	0.085	0.083	0.089	0.063	0.115	0.082	0.109	0.119	0.089	0.083
5/29	0.092	0.088	0.076	0.061	0.1	0.082	0.09	0.096	0.083	0.082
5/30	0.098	0.087	0.071	0.06	0.088	0.086	0.084	0.089	0.082	0.082
5/31	0.09	0.085	0.083	0.06	0.084	0.242	0.084	0.097	0.082	0.083
6/1	0.088	0.085	0.094	0.06	0.102	0.174	0.083	0.101	0.083	0.083
6/2	0.088	0.085	0.08	0.081	0.103	0.121	0.082	0.15	0.083	0.084
6/3	0.091	0.086	0.104	0.068	0.109	0.1	0.083	0.143	0.084	0.095
6/4	0.091	0.086	0.085	0.062	0.092	0.151	0.099	0.105	0.084	0.188
6/5	0.09	0.087	0.075	0.061	0.088	0.133	0.115	0.094	0.085	0.125
6/6	0.09	0.087	0.071	0.06	0.087	0.104	0.095	0.09	0.152	0.102
6/7	0.09	0.087	0.069	0.059	0.087	0.094	0.089	0.089	0.107	0.093
6/8	0.101	0.087	0.069	0.059	0.087	0.091	0.118	0.089	0.094	0.09
6/9	0.122	0.088	0.068	0.059	0.087	0.09	0.145	0.09	0.09	0.089
6/10	0.103	0.088	0.068	0.059	0.106	0.089	0.106	0.097	0.143	0.089
6/11	0.097	0.088	0.068	0.242	0.194	0.09	0.094	0.097	0.133	0.089
6/12	0.095	0.134	0.068	0.438	0.134	0.09	0.156	0.093	0.107	0.089
6/13	0.099	0.114	0.068	0.312	0.108	0.09	0.214	0.094	0.098	0.09
6/14	0.098	0.098	0.197	0.215	0.098	0.098	0.136	0.189	0.103	0.09
6/15	0.096	0.092	0.148	0.134	0.095	0.129	0.107	0.147	0.127	0.09
6/16	0.12	0.09	0.098	0.096	0.139	0.129	0.096	0.116	0.105	0.091
6/17	0.13	0.088	0.081	0.079	0.171	0.119	0.092	0.104	0.096	0.09
6/18	0.108	0.087	0.073	0.185	0.129	0.102	0.096	0.098	0.093	0.091
6/19	0.1	0.087	0.069	0.15	0.106	0.096	0.305	0.107	0.091	0.11
6/20	0.154	0.086	0.066	0.102	0.102	0.094	0.185	0.1	0.091	0.097
6/21	0.179	0.085	0.065	0.083	0.098	0.111	0.133	0.099	0.103	0.092
6/22	0.206	0.084	0.063	0.074	0.174	0.17	0.11	0.132	0.125	0.093
6/23	0.137	0.084	0.063	0.07	0.129	0.145	0.099	0.112	0.103	0.09
6/24	0.112	0.083	0.085	0.069	0.106	0.114	0.094	0.153	0.095	0.088
6/25	0.102	0.082	0.085	0.622	0.097	0.102	0.091	0.121	0.091	0.087
6/26	0.098	0.081	0.071	0.353	0.094	0.112	0.09	0.105	0.089	0.087
6/27	0.097	0.081	0.069	0.265	0.092	0.158	0.092	0.098	0.088	0.098
6/28	0.096	0.08	0.067	0.154	0.091	0.121	0.089	0.095	0.087	0.095
6/29	0.095	0.079	0.107	0.118	0.09	0.105	0.093	0.094	0.086	0.126
6/30	0.095	0.141	0.085	0.095	0.09	0.098	0.11	0.093	0.085	0.114
7/1	0.098	0.118	0.091	0.083	0.09	0.095	0.096	0.093	0.084	0.098
7/2	0.104	0.095	0.104	0.078	0.09	0.093	0.09	0.093	0.083	0.09
7/3	0.12	0.091	0.076	0.159	0.089	0.092	0.088	0.092	0.083	0.086
7/4	0.114	0.11	0.065	0.15	0.088	0.092	0.086	0.094	0.082	0.083
7/5	0.105	0.091	0.059	0.11	0.087	0.091	0.087	0.096	0.081	0.082
7/6	0.099	0.083	0.056	0.092	0.086	0.091	0.088	0.094	0.08	0.08
7/7	0.101	0.374	0.054	0.083	0.085	0.091	0.101	0.155	0.079	0.079

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.162	0.297	0.053	0.078	0.084	0.091	0.099	0.132	0.079	0.079
7/9	0.205	0.173	0.092	5.814	0.084	0.098	0.089	0.111	0.078	0.078
7/10	0.143	0.121	0.077	5.764	0.097	0.094	0.084	0.102	0.077	0.154
7/11	0.117	0.097	0.063	2.413	0.089	0.091	0.14	0.097	0.076	0.126
7/12	0.105	0.085	0.057	1.155	0.085	0.09	0.156	0.094	0.075	0.15
7/13	0.1	0.078	0.053	0.602	0.082	0.089	0.128	0.093	0.078	0.124
7/14	0.101	0.075	0.05	0.356	0.081	0.088	0.104	0.112	0.101	0.097
7/15	0.151	0.072	0.049	0.235	0.079	0.087	0.098	0.104	0.085	0.085
7/16	0.119	0.071	0.048	0.165	0.079	0.087	0.104	0.098	1.507	0.079
7/17	0.105	0.07	0.047	0.127	0.078	0.086	0.09	0.135	1.483	0.076
7/18	0.099	0.07	0.046	0.107	0.078	0.086	0.084	0.239	0.691	0.076
7/19	0.096	0.069	0.072	0.097	0.077	0.086	0.08	0.23	0.428	0.074
7/20	0.095	0.069	0.082	0.092	0.077	0.085	0.083	0.159	0.247	0.073
7/21	0.094	0.077	0.063	0.089	0.088	0.085	0.119	0.128	0.163	0.072
7/22	0.094	0.082	0.06	0.087	0.126	0.102	0.135	0.127	0.122	0.071
7/23	0.093	0.075	0.052	0.086	0.099	0.209	0.105	0.112	0.102	0.071
7/24	0.093	0.071	0.05	0.085	0.088	0.144	0.09	0.104	0.097	0.07
7/25	0.093	0.069	0.046	0.085	0.082	0.115	0.083	0.101	0.092	0.07
7/26	0.092	0.068	0.044	0.085	0.079	0.125	0.079	0.099	0.103	0.102
7/27	0.092	0.067	0.043	0.085	0.077	0.121	0.077	0.125	0.119	0.229
7/28	0.166	0.067	0.042	0.272	0.076	0.245	0.076	0.133	0.103	0.173
7/29	0.151	0.066	0.041	0.278	0.075	0.215	0.075	0.114	0.092	0.131
7/30	0.121	0.066	0.041	0.239	0.074	0.233	0.074	0.106	0.086	0.102
7/31	0.107	0.065	0.069	0.18	0.074	0.16	0.094	0.285	0.083	0.087
8/1	0.1	0.065	0.097	0.184	0.073	0.125	0.091	0.241	0.081	0.078
8/2	0.096	0.065	0.067	0.168	0.073	0.108	0.106	0.174	0.08	0.089
8/3	0.098	0.064	0.053	0.133	0.073	0.099	0.094	0.157	0.079	0.299
8/4	0.128	0.064	0.063	0.115	0.072	0.094	0.157	0.143	0.081	0.255
8/5	0.109	0.064	0.082	0.106	0.072	0.091	0.117	0.131	0.161	0.163
8/6	0.1	0.183	0.064	0.103	0.072	0.09	0.098	0.118	0.121	0.119
8/7	0.095	0.233	0.059	0.101	0.071	0.089	0.087	0.112	0.1	0.098
8/8	0.093	0.162	0.12	0.098	0.071	0.088	0.08	0.109	0.089	0.086
8/9	0.092	0.157	0.081	0.103	0.071	0.087	0.077	0.107	0.084	0.08
8/10	0.091	0.191	0.067	0.103	0.084	0.087	0.075	0.106	0.083	0.076
8/11	0.126	0.129	0.06	0.099	0.077	0.087	0.074	0.111	0.083	0.074
8/12	0.123	0.099	0.049	0.097	0.073	0.086	0.083	0.124	0.083	0.073
8/13	0.192	0.083	0.051	0.096	0.071	0.086	0.103	0.115	0.082	0.072
8/14	0.145	0.074	0.077	0.095	0.07	0.086	0.087	0.11	0.123	0.087
8/15	0.155	0.068	0.056	0.095	0.069	0.093	0.08	0.108	0.114	0.103
8/16	0.196	0.065	0.046	0.095	0.111	0.09	0.076	0.107	0.095	0.087
8/17	0.177	0.064	0.041	0.095	0.158	0.088	0.074	0.106	0.086	0.079
8/18	0.136	0.066	0.038	0.094	0.113	0.087	0.072	0.106	0.081	0.075
8/19	0.116	0.064	0.036	0.094	0.141	0.104	0.071	0.106	0.181	0.073
8/20	0.11	0.062	0.035	0.094	0.137	0.112	0.071	0.106	0.172	0.098
8/21	0.208	0.061	0.034	0.094	0.168	0.099	0.07	0.106	0.126	0.085
8/22	0.211	0.15	0.033	0.094	0.12	0.098	0.09	0.105	0.107	0.077
8/23	0.167	0.111	0.032	0.123	0.096	0.096	0.081	0.105	0.096	0.073
8/24	0.134	0.086	0.032	0.11	0.083	0.091	0.075	0.105	0.088	0.071

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.118	0.074	0.033	0.102	0.076	0.088	0.072	0.105	0.084	0.089
8/26	0.109	0.067	0.042	0.098	0.071	0.086	0.077	0.105	0.082	0.086
8/27	0.104	0.064	0.036	0.1	0.069	0.085	0.077	0.105	0.098	0.117
8/28	0.101	0.062	0.033	0.099	0.067	0.085	0.073	0.115	0.119	0.096
8/29	0.1	0.062	0.032	0.096	0.067	0.084	0.07	0.186	0.099	0.083
8/30	0.099	0.06	0.031	0.095	0.066	0.084	0.069	0.187	0.089	0.076
8/31	0.099	0.059	0.03	0.094	0.067	0.084	0.068	0.146	0.103	0.072
9/1	0.099	0.059	0.029	0.093	0.067	0.083	0.068	0.127	0.092	0.07
9/2	0.098	0.061	0.029	0.103	0.066	0.083	0.067	0.117	0.085	0.076
9/3	0.098	0.06	0.028	0.109	0.065	0.083	0.067	0.112	0.082	0.11
9/4	0.098	0.059	0.028	0.101	0.072	0.083	0.067	0.109	0.08	0.089
9/5	0.097	0.058	0.028	0.097	0.069	0.082	0.066	0.107	0.078	0.078
9/6	0.12	0.057	0.198	0.094	0.066	0.082	0.066	0.106	0.077	0.073
9/7	0.165	0.077	0.184	0.093	0.066	0.082	0.066	0.27	0.077	0.069
9/8	0.129	0.074	0.105	0.132	0.108	0.082	0.065	0.221	0.077	0.075
9/9	0.113	0.065	0.067	0.149	0.104	0.082	0.065	0.165	0.085	0.077
9/10	0.164	0.06	0.048	0.137	0.265	0.083	0.065	0.138	0.084	0.072
9/11	0.165	0.058	0.038	0.203	0.166	0.098	0.065	0.124	0.08	0.069
9/12	0.133	0.057	0.032	0.167	0.113	0.089	0.064	0.117	0.078	0.069
9/13	0.116	0.056	0.063	0.136	0.089	0.085	0.064	0.113	0.077	0.086
9/14	0.108	0.056	0.056	0.186	0.076	0.083	0.071	0.111	0.077	0.077
9/15	0.104	0.055	0.04	0.34	0.07	0.082	0.218	0.11	0.078	0.071
9/16	0.102	0.055	0.033	0.304	0.066	0.107	0.199	0.108	0.09	0.067
9/17	0.1	0.054	0.028	0.194	0.064	0.098	0.13	0.107	0.113	0.065
9/18	0.099	0.053	0.026	0.144	0.062	0.088	0.097	0.106	0.091	0.094
9/19	0.113	0.053	0.024	0.12	0.088	0.083	0.163	0.104	0.081	0.144
9/20	0.174	0.052	0.024	0.121	0.145	0.155	0.166	0.103	0.076	0.109
9/21	0.136	0.051	0.023	0.191	0.149	0.236	0.112	0.102	0.073	0.093
9/22	0.116	0.051	0.022	0.149	0.138	0.153	0.137	0.101	0.109	0.077
9/23	0.105	0.05	0.022	0.542	0.097	0.117	0.195	0.1	0.193	0.125
9/24	0.1	0.049	0.036	0.361	0.14	0.096	0.119	0.099	0.125	0.133
9/25	0.097	0.049	0.031	0.218	0.122	0.085	0.149	0.098	0.165	0.105
9/26	0.095	0.048	0.025	0.159	0.259	0.079	0.102	0.098	0.214	0.097
9/27	0.094	0.048	0.022	0.131	0.236	0.103	0.105	0.097	0.21	0.08
9/28	0.093	0.047	0.02	0.118	0.15	0.11	0.088	0.096	0.136	0.081
9/29	0.092	0.046	0.039	0.111	0.106	0.087	0.182	0.095	0.23	0.087
9/30	0.155	0.046	0.143	0.108	0.084	0.078	0.134	0.094	0.171	0.093
10/1	0.165	0.1	0.094	0.106	0.073	0.076	0.121	0.093	0.12	0.102
10/2	0.121	0.076	0.062	0.105	0.067	0.122	0.194	0.133	0.097	0.079
10/3	0.104	0.063	0.048	0.104	0.064	0.113	0.182	0.134	0.086	0.091
10/4	0.096	0.052	0.074	0.129	0.062	0.095	0.197	0.11	0.081	0.206
10/5	0.094	0.047	0.045	0.121	0.2	0.107	0.135	0.099	0.078	0.165
10/6	0.09	0.045	0.03	0.123	0.256	0.084	0.103	0.094	0.076	0.106
10/7	0.088	0.078	0.023	0.126	0.168	0.083	0.085	0.09	0.075	0.082
10/8	0.087	0.078	0.022	0.133	0.133	0.074	0.077	0.088	0.075	0.072
10/9	0.09	0.057	0.037	0.12	0.098	0.069	0.073	0.128	0.074	0.09
10/10	0.095	0.048	0.026	0.111	0.08	0.066	0.072	0.118	0.074	0.083
10/11	0.089	0.044	0.02	0.106	0.09	0.064	0.071	0.099	0.074	0.153

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.086	0.041	0.018	0.103	0.167	0.063	0.071	0.09	0.074	0.216
10/13	0.085	0.04	0.059	0.102	0.138	0.071	0.071	0.086	0.077	0.171
10/14	0.12	0.133	0.107	0.101	0.144	0.068	0.118	0.088	0.074	0.112
10/15	0.101	0.107	0.05	0.1	0.171	0.064	0.223	0.101	0.073	0.087
10/16	0.09	0.068	0.029	0.101	0.162	0.062	0.14	0.187	0.072	0.077
10/17	0.085	0.052	0.033	0.101	0.226	0.06	0.102	0.185	0.072	0.167
10/18	0.083	0.046	0.023	0.099	0.145	0.071	0.085	0.144	0.085	0.163
10/19	0.081	0.043	0.018	0.098	0.106	0.094	0.078	0.108	0.076	0.129
10/20	0.08	0.039	0.016	0.097	0.09	0.076	0.075	0.092	0.072	0.103
10/21	0.23	0.118	0.015	0.096	0.082	0.066	0.074	0.086	0.07	0.085
10/22	0.43	0.096	0.036	0.096	0.079	0.07	0.073	0.082	0.069	0.128
10/23	0.258	0.059	0.073	0.095	0.083	0.064	0.073	0.082	0.068	0.16
10/24	0.189	0.045	0.082	0.116	0.103	0.059	0.1	0.116	0.067	0.143
10/25	0.128	0.039	0.042	0.11	0.129	0.058	0.117	0.094	0.067	0.116
10/26	0.116	0.036	0.026	0.1	0.104	0.109	0.143	0.085	0.066	0.091
10/27	0.261	0.035	0.019	0.11	0.133	0.077	0.11	0.081	0.066	0.082
10/28	0.234	0.034	0.016	0.105	0.1	0.064	0.089	0.079	0.065	0.204
10/29	0.148	0.033	0.015	0.096	0.087	0.058	0.112	0.078	0.065	0.169
10/30	0.11	0.033	0.014	0.093	0.082	0.056	0.089	0.119	0.064	0.113
10/31	0.134	0.033	0.014	0.091	0.081	0.076	0.079	0.097	0.068	0.091
11/1	0.178	0.032	0.013	0.09	0.081	0.092	0.075	0.084	0.1	0.083
11/2	0.136	0.032	0.024	0.089	0.149	0.068	0.205	0.144	0.081	0.079
11/3	0.126	0.031	0.104	0.088	0.131	0.059	0.223	0.12	0.069	0.078
11/4	0.102	0.031	0.166	0.087	0.099	0.055	0.178	0.134	0.065	0.077
11/5	0.096	0.041	0.081	0.088	0.087	0.061	0.115	0.163	0.062	0.077
11/6	0.091	0.044	0.042	0.087	0.082	0.113	0.091	0.106	0.063	0.077
11/7	0.089	0.099	0.026	0.085	0.08	0.095	0.081	0.087	0.062	0.112
11/8	0.088	0.074	0.019	0.085	0.11	0.069	0.077	0.08	0.06	0.165
11/9	0.088	0.049	0.016	0.089	0.142	0.058	0.075	0.094	0.139	0.109
11/10	0.092	0.061	0.017	0.192	0.102	0.129	0.074	0.088	0.134	0.089
11/11	0.098	0.103	0.02	0.145	0.087	0.169	0.122	0.079	0.09	0.129
11/12	0.105	0.058	0.017	0.105	0.082	0.107	0.107	0.075	0.07	0.104
11/13	0.093	0.04	0.015	0.097	0.079	0.074	0.091	0.074	0.072	0.087
11/14	0.089	0.033	0.015	0.099	0.093	0.061	0.082	0.073	0.065	0.156
11/15	0.088	0.031	0.04	0.091	0.102	0.079	0.076	0.073	0.461	0.108
11/16	0.087	0.053	0.026	0.085	0.09	0.061	0.074	0.073	1.436	0.193
11/17	0.087	0.088	0.019	0.107	0.082	0.055	0.09	0.075	0.474	0.137
11/18	0.087	0.05	0.017	0.096	0.079	0.056	0.086	0.076	0.209	0.098
11/19	0.087	0.037	0.019	0.086	0.104	0.086	0.141	0.074	0.117	0.085
11/20	0.096	0.038	0.059	0.083	0.141	0.075	0.111	0.082	0.082	0.081
11/21	0.168	0.072	0.032	0.082	0.098	0.077	0.088	0.082	0.07	0.079

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/22	0.149	0.048	0.021	0.081	0.085	0.096	0.08	0.076	0.072	0.079
11/23	0.11	0.036	0.018	0.081	0.081	0.073	0.077	0.074	0.064	0.079
11/24	0.096	0.032	0.042	0.081	0.079	0.065	0.142	0.094	0.061	0.079
11/25	0.091	0.034	0.029	0.081	0.217	0.08	0.173	0.123	0.06	0.079
11/26	0.098	0.113	0.064	0.134	0.141	0.063	0.11	0.09	0.06	0.079
11/27	0.172	0.061	0.067	0.169	0.136	0.057	0.093	0.109	0.083	0.079
11/28	0.196	0.042	0.035	0.134	0.129	0.055	0.143	0.101	0.173	0.08
11/29	0.144	0.035	0.028	0.106	0.149	0.058	0.194	0.084	0.388	0.084
11/30	0.138	0.034	0.027	0.092	0.191	0.067	0.159	0.077	0.195	0.15
12/1	0.129	0.107	0.02	0.085	0.14	0.059	0.117	0.213	0.107	0.807
12/2	0.103	0.059	0.029	0.083	0.101	0.056	0.093	0.14	0.079	0.49
12/3	0.104	0.042	0.044	0.082	0.088	0.055	0.084	0.096	0.069	0.212
12/4	0.159	0.036	0.038	0.082	0.084	0.055	0.081	0.082	0.065	0.128
12/5	0.121	0.054	0.074	0.082	0.082	0.055	0.08	0.077	0.064	0.099
12/6	0.101	0.099	0.122	0.082	0.082	0.055	0.08	0.075	0.064	0.089
12/7	0.095	0.452	0.055	0.082	0.082	0.055	0.08	0.323	0.064	0.085
12/8	0.092	0.149	0.031	0.082	0.082	0.055	0.08	0.36	0.064	0.083
12/9	0.091	0.07	0.023	0.082	0.082	0.055	0.083	0.157	0.064	0.083
12/10	0.091	0.046	0.034	0.082	0.082	0.055	0.135	0.126	0.065	0.083
12/11	0.091	0.038	0.039	0.082	0.083	0.055	0.247	0.118	0.065	0.101
12/12	0.091	0.035	0.026	0.082	0.083	0.056	0.135	0.09	0.065	0.132
12/13	0.091	0.034	0.024	0.082	0.113	0.056	0.1	0.081	0.065	0.192
12/14	0.091	0.034	0.123	0.082	0.109	0.056	0.088	0.078	0.066	0.133
12/15	0.092	0.034	0.299	0.082	0.113	0.06	0.085	0.076	0.066	0.119
12/16	0.103	0.034	0.155	0.225	0.095	0.057	0.104	0.076	0.066	0.11
12/17	0.115	0.034	0.066	0.968	0.142	0.056	0.112	0.076	0.066	0.1
12/18	0.119	0.035	0.036	0.315	0.139	0.061	0.091	0.076	0.066	0.098
12/19	0.106	0.036	0.026	0.098	0.113	0.13	0.086	0.076	0.066	0.092
12/20	0.099	0.041	0.048	0.082	0.163	0.435	0.084	0.076	0.066	0.089
12/21	0.095	0.081	0.045	0.082	0.114	0.184	0.083	0.077	0.066	0.089
12/22	0.092	0.093	0.029	0.082	0.095	0.095	0.1	0.077	0.066	0.113
12/23	0.091	0.053	0.024	0.082	0.092	0.069	0.193	0.077	0.067	0.113
12/24	0.092	0.042	0.023	0.082	0.092	0.061	0.178	0.077	0.078	0.098
12/25	0.12	0.038	0.023	0.082	0.087	0.058	0.123	0.077	0.083	0.091
12/26	0.12	0.037	0.023	0.082	0.086	0.057	0.097	0.077	0.078	0.143
12/27	0.1	0.037	0.023	0.082	0.086	0.057	0.088	0.077	0.07	0.126
12/28	0.094	0.039	0.023	0.082	0.085	0.057	0.093	0.077	0.073	0.103
12/29	0.092	0.047	0.023	0.083	0.085	0.057	1.226	0.078	0.083	0.095
12/30	0.091	0.048	0.023	0.083	0.086	0.067	2.408	0.09	0.072	0.095
12/31	0.091	0.04	0.025	0.083	0.086	0.093	0.654	0.166	0.069	0.178

Table AE.10: Daily Average Streamflow for 10 years for Datar Miller.

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
1/1	0.027	0.028	0.011	0.008	0.025	0.027	0.018	0.04	0.057	0.021
1/2	0.026	0.028	0.011	0.007	0.024	0.026	0.017	0.456	1.192	0.021
1/3	0.07	0.028	0.01	0.007	0.024	0.025	0.017	0.075	0.377	0.021
1/4	0.571	0.033	0.01	0.007	0.024	0.025	0.017	0.029	0.049	0.162
1/5	0.771	0.317	0.01	0.007	0.024	0.025	0.017	0.025	0.025	0.587
1/6	0.155	0.419	0.01	0.007	0.024	0.025	0.017	0.025	0.023	0.084
1/7	0.035	0.095	0.01	0.007	0.024	0.025	0.017	0.025	0.023	0.024
1/8	0.026	0.6	0.01	0.007	0.023	0.025	0.016	0.024	0.022	0.019
1/9	0.025	0.107	0.01	0.007	0.023	0.024	0.016	0.024	0.022	0.019
1/10	0.025	0.036	0.01	0.29	0.023	0.025	0.017	0.024	0.022	0.019
1/11	0.025	0.026	0.01	0.193	0.023	0.026	0.016	0.024	0.022	0.034
1/12	0.024	0.025	0.01	0.02	0.023	0.025	0.016	0.024	0.257	0.04
1/13	0.024	0.025	0.01	0.008	0.023	0.024	0.016	0.024	0.769	0.241
1/14	0.024	0.025	0.01	0.007	0.022	0.024	0.016	0.024	0.378	0.232
1/15	0.024	0.024	0.01	0.007	0.023	0.023	0.016	0.023	0.051	0.04
1/16	0.024	0.024	0.01	0.007	0.023	0.023	0.016	0.023	0.025	0.021
1/17	0.024	0.024	0.015	0.007	0.022	0.023	0.016	0.023	0.022	0.031
1/18	0.023	0.024	0.089	0.007	0.022	0.023	0.015	0.023	0.021	0.09
1/19	0.023	0.024	0.016	0.007	0.022	0.023	0.015	0.023	0.021	0.025
1/20	0.023	0.024	0.01	0.007	0.021	0.023	0.015	0.023	0.021	0.019
1/21	0.023	0.023	0.01	0.007	0.021	0.022	0.015	0.022	0.021	0.018
1/22	0.089	0.023	0.448	0.007	0.021	0.022	0.015	0.022	0.021	0.018
1/23	0.091	0.023	0.653	0.006	0.021	0.022	0.015	0.022	0.02	0.018
1/24	0.029	0.023	0.181	0.006	0.021	0.023	0.015	0.022	0.02	0.018
1/25	0.023	0.023	0.029	0.006	0.021	0.022	0.015	0.022	0.02	0.017
1/26	0.022	0.022	0.012	0.006	0.02	0.184	0.015	0.022	0.02	0.017
1/27	0.022	0.022	0.01	0.006	0.02	0.201	0.014	0.021	0.02	0.017
1/28	0.022	0.022	0.009	0.006	0.02	0.039	0.014	0.021	0.02	0.018
1/29	0.021	0.027	0.009	0.006	0.02	0.023	0.014	0.021	0.02	2.058
1/30	0.021	0.027	0.009	0.006	0.02	0.021	0.014	0.021	0.019	1.232
1/31	0.021	0.022	0.009	0.006	0.02	0.021	0.014	0.021	0.019	0.138
2/1	0.021	0.022	0.009	0.006	0.019	0.021	0.014	0.021	0.019	0.029
2/2	0.021	0.028	0.01	0.006	0.019	0.02	0.014	0.02	0.019	0.018
2/3	0.02	0.041	0.01	0.006	0.019	0.02	0.039	0.02	0.019	0.019
2/4	0.312	0.024	0.009	0.006	0.019	0.02	0.231	0.02	0.019	0.017
2/5	0.573	0.021	0.009	0.006	0.019	0.02	0.039	0.02	0.019	0.017
2/6	0.089	0.02	0.009	0.006	0.018	0.02	0.016	0.02	0.018	0.016
2/7	0.065	0.02	0.009	0.006	0.018	0.02	0.014	0.02	0.03	0.016
2/8	0.071	0.04	0.009	0.006	0.039	0.019	0.013	0.019	0.037	0.016
2/9	0.026	0.062	0.009	0.006	3.304	0.019	0.013	0.019	0.021	0.016
2/10	0.02	0.045	0.009	0.006	2.15	0.058	0.013	0.019	0.018	0.016
2/11	0.019	0.065	0.009	0.006	0.291	0.07	0.013	0.019	0.018	0.016
2/12	0.019	0.086	0.01	0.006	0.053	0.025	0.013	0.019	0.018	0.015
2/13	0.019	0.032	0.009	0.006	0.022	0.019	0.012	0.019	0.017	0.015
2/14	0.018	0.02	0.008	0.006	0.018	0.018	0.012	0.018	0.253	0.015
2/15	0.018	0.019	0.009	0.006	0.017	0.019	0.012	0.018	1.052	0.015
2/16	0.018	0.021	0.012	0.006	0.017	0.019	0.012	0.018	1.047	0.587
2/17	0.018	0.469	0.027	0.006	0.017	0.018	0.012	0.018	0.153	1.569
2/18	0.022	0.542	0.011	0.006	0.017	0.018	0.012	0.018	0.035	0.211
2/19	0.542	0.311	0.009	0.006	0.017	0.018	0.012	0.018	0.019	0.04
2/20	0.731	0.166	0.008	0.006	0.017	1.549	0.012	0.176	0.017	0.018
2/21	3.005	0.096	0.008	0.006	0.017	1.066	0.012	0.375	0.017	0.016
2/22	0.841	0.122	0.008	0.006	0.017	0.158	0.012	0.067	0.017	0.015
2/23	0.121	0.124	0.008	0.099	0.017	0.035	0.012	0.025	0.017	0.015
2/24	0.031	0.059	0.009	0.632	0.017	0.021	0.012	0.019	0.017	0.015
2/25	0.02	0.029	0.009	0.992	0.058	0.103	0.012	0.018	0.017	0.015
2/26	0.176	0.035	0.009	0.148	0.064	0.232	0.012	0.018	0.017	0.015
2/27	1.024	0.096	0.009	0.026	0.023	0.178	0.012	0.018	0.017	0.015
2/28	0.4	0.106	0.716	0.009	0.018	0.039	0.012	0.024	0.017	0.015
2/29				0.007				0.044		
3/1	0.404	0.07	0.168	0.152	0.017	0.021	0.012	0.083	0.017	0.015
3/2	0.359	0.044	0.031	0.076	0.017	0.428	0.012	0.145	0.017	0.016
3/3	0.126	0.192	0.012	0.016	0.017	0.593	0.012	0.082	0.017	0.016
3/4	0.039	0.131	0.009	0.008	0.017	0.131	0.012	0.092	0.017	0.016
3/5	0.03	0.063	0.009	0.007	0.017	0.032	0.012	1.169	0.017	0.016
3/6	0.02	0.099	0.009	0.007	0.017	0.02	0.012	0.379	0.032	0.016
3/7	0.018	0.082	0.009	0.007	0.017	0.018	0.012	0.425	0.164	0.016
3/8	0.018	0.296	0.009	0.007	0.017	0.604	0.012	0.33	0.115	0.026
3/9	0.018	1.974	0.009	0.007	0.017	1.163	0.012	0.059	0.029	0.769
3/10	0.333	1.404	0.009	0.007	0.017	0.618	0.012	0.024	0.019	1.013
3/11	0.346	0.201	0.009	0.007	0.017	0.095	0.012	0.071	0.018	0.198
3/12	0.059	0.042	0.009	0.007	0.017	0.028	0.012	0.059	0.017	0.084
3/13	0.023	0.021	0.009	0.007	0.018	0.058	0.012	0.022	0.018	1.263
3/14	0.749	0.019	0.01	0.008	0.053	0.096	0.012	0.018	0.018	0.394
3/15	0.599	0.018	0.011	0.031	0.049	0.114	0.076	0.018	0.018	0.064
3/16	0.091	0.018	0.01	0.181	0.021	0.085	0.067	0.018	0.018	0.022
3/17	0.227	0.186	0.011	0.027	0.018	0.027	0.02	0.018	0.018	0.017
3/18	0.155	0.495	0.011	0.01	0.017	0.026	0.015	0.018	0.018	0.017
3/19	0.035	0.832	0.01	0.008	0.017	0.045	0.013	0.17	0.019	0.017
3/20	0.037	0.222	0.01	0.008	0.018	0.119	0.013	0.659	0.019	0.017
3/21	0.152	0.04	0.011	0.008	0.018	0.047	0.013	0.22	0.018	0.017
3/22	0.147	0.021	0.011	0.008	0.018	0.021	0.013	0.04	0.018	0.017
3/23	0.033	0.018	0.011	0.008	0.018	0.2	0.013	0.02	0.018	0.017
3/24	0.02	0.087	0.011	0.008	0.017	0.145	0.014	0.055	0.018	0.017
3/25	0.944	0.269	0.011	0.008	0.017	0.032	0.014	0.168	0.018	0.018
3/26	0.335	0.508	0.011	0.008	0.017	0.019	0.014	0.683	0.018	0.018
3/27	0.054	0.619	0.011	0.013	0.017	0.018	0.014	0.542	0.018	0.018
3/28	0.384	1.044	0.011	0.01	0.018	0.018	0.015	0.279	0.018	0.017
3/29	1.315	0.406	0.011	0.009	0.018	0.045	0.017	0.381	0.02	0.017
3/30	0.793	0.06	0.012	0.009	0.018	0.112	0.014	1.367	0.02	0.018
3/31	0.325	0.023	0.013	0.009	0.018	0.028	0.014	0.471	0.019	0.174
4/1	0.053	0.257	0.014	0.009	0.018	0.133	0.015	0.318	0.019	0.81
4/2	0.106	0.362	0.014	0.01	0.018	0.327	0.015	0.217	0.019	0.12

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
4/3	0.423	0.1	0.039	0.01	0.018	0.421	0.173	0.232	0.019	0.459
4/4	0.496	0.027	0.018	0.012	0.018	0.074	0.115	0.138	0.018	0.431
4/5	0.815	0.019	0.015	0.011	0.019	0.024	0.026	0.033	0.019	0.123
4/6	0.977	0.018	0.014	0.01	0.02	0.019	0.016	0.02	0.02	0.047
4/7	0.462	0.018	0.015	0.011	0.021	0.018	0.016	0.018	0.02	0.702
4/8	0.09	0.019	0.015	0.011	0.02	0.515	0.016	0.018	0.215	0.307
4/9	0.026	0.019	0.015	0.01	0.044	0.87	0.017	0.018	0.416	0.051
4/10	0.019	0.018	0.015	0.011	0.154	0.12	0.017	0.018	0.517	0.063
4/11	0.018	0.018	0.017	0.011	0.246	0.029	0.017	0.018	0.191	0.239
4/12	0.102	0.018	0.016	0.011	0.496	0.473	0.017	0.018	0.039	1.052
4/13	0.198	0.018	0.015	0.011	0.346	0.592	0.017	0.145	0.02	0.463
4/14	0.223	0.019	0.015	0.011	0.308	0.097	0.018	0.164	0.018	0.069
4/15	0.403	0.019	0.016	0.011	0.29	0.029	0.019	0.197	0.018	0.024
4/16	0.85	0.02	0.017	0.011	0.641	0.02	0.019	0.311	0.018	0.019
4/17	0.266	0.02	0.016	0.011	0.481	0.018	0.018	0.709	0.018	0.018
4/18	0.053	0.019	0.017	0.011	0.124	0.018	0.019	1.218	0.018	0.018
4/19	0.024	0.019	0.017	0.011	0.035	0.02	0.02	0.355	0.019	0.019
4/20	0.02	0.019	0.017	0.041	0.184	0.019	0.019	0.074	0.02	0.019
4/21	0.019	0.019	0.017	0.051	0.386	0.019	0.019	0.037	0.019	0.019
4/22	0.021	0.019	0.021	0.017	0.131	0.019	0.019	0.057	0.019	0.02
4/23	0.02	0.02	0.019	0.013	0.034	0.019	0.019	0.024	0.022	0.021
4/24	0.02	0.02	0.018	0.013	0.021	0.02	0.019	0.02	0.021	0.02
4/25	0.02	0.02	0.018	0.013	0.02	0.021	0.019	0.02	0.021	0.02
4/26	0.02	0.02	0.019	0.013	0.02	0.02	0.019	0.02	0.027	0.02
4/27	0.02	0.02	0.019	0.013	0.02	0.02	0.02	0.021	0.154	0.02
4/28	0.021	0.02	0.019	0.013	0.02	0.023	0.02	0.021	0.08	0.02
4/29	0.021	0.021	0.019	0.013	0.02	0.021	0.02	0.021	0.035	0.02
4/30	0.021	0.021	0.02	0.013	0.021	0.021	0.02	0.021	0.022	0.021
5/1	0.021	0.022	0.02	0.015	0.021	0.021	0.073	0.022	0.021	0.021
5/2	0.021	0.023	0.02	0.014	0.021	0.023	0.032	0.417	0.021	0.021
5/3	0.027	0.022	0.02	0.014	0.021	0.022	0.022	0.122	0.021	0.021
5/4	0.023	0.022	0.02	0.014	0.021	0.021	0.021	0.033	0.021	0.021
5/5	0.03	0.022	0.02	0.014	0.022	0.022	0.023	0.024	0.021	0.022
5/6	0.047	0.022	0.02	0.014	0.022	0.022	0.024	0.022	0.022	0.022
5/7	0.026	0.022	0.02	0.014	0.022	0.022	0.022	0.023	0.022	0.022
5/8	0.023	0.022	0.021	0.014	0.023	0.022	0.022	0.508	0.022	0.022
5/9	0.11	0.022	0.021	0.016	0.023	0.024	0.022	1.017	0.022	0.022
5/10	0.249	0.023	0.02	0.019	0.022	0.023	0.022	0.483	0.022	0.022
5/11	0.049	0.025	0.02	0.015	0.023	0.023	0.028	0.074	0.023	0.025
5/12	0.03	0.023	0.021	0.016	0.023	0.025	0.025	0.029	0.023	0.023
5/13	0.024	0.023	0.021	0.015	0.023	0.024	0.024	0.024	0.024	0.023
5/14	0.024	0.023	0.021	0.015	0.023	0.023	0.023	0.038	0.026	0.023
5/15	1.057	0.024	0.021	0.015	0.023	0.023	0.023	0.062	0.024	0.023
5/16	0.809	0.024	0.021	0.015	0.024	0.083	0.025	0.028	0.024	0.025
5/17	0.368	0.024	0.022	0.015	0.024	0.07	0.024	0.024	0.024	0.024
5/18	0.133	0.024	0.022	0.022	0.024	0.028	0.024	0.024	0.024	0.027
5/19	0.392	0.024	0.021	0.017	0.024	0.025	0.024	0.024	0.024	0.025
5/20	0.057	0.025	0.021	0.016	0.024	0.024	0.025	0.025	0.024	0.025

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
5/21	0.028	0.025	0.021	0.016	0.025	0.025	0.024	0.025	0.024	0.025
5/22	0.025	0.025	0.021	0.016	0.028	0.025	0.024	0.803	0.025	0.025
5/23	0.025	0.025	0.021	0.034	0.026	0.025	0.025	2.043	0.025	0.025
5/24	0.025	0.025	0.024	0.068	0.025	0.025	0.027	1.044	0.025	0.025
5/25	0.026	0.026	0.024	0.022	0.026	0.025	0.025	0.121	0.025	0.025
5/26	0.026	0.026	0.024	0.018	0.026	0.025	0.025	0.034	0.025	0.026
5/27	0.026	0.026	0.022	0.018	0.026	0.026	0.026	0.027	0.026	0.026
5/28	0.026	0.026	0.022	0.018	0.027	0.026	0.026	0.026	0.026	0.026
5/29	0.027	0.026	0.022	0.019	0.026	0.026	0.026	0.026	0.026	0.026
5/30	0.027	0.026	0.022	0.019	0.026	0.026	0.026	0.026	0.026	0.026
5/31	0.027	0.027	0.022	0.019	0.026	0.032	0.026	0.027	0.026	0.026
6/1	0.027	0.027	0.022	0.019	0.027	0.028	0.026	0.027	0.027	0.027
6/2	0.027	0.027	0.022	0.02	0.027	0.027	0.026	0.03	0.027	0.027
6/3	0.027	0.027	0.023	0.019	0.027	0.027	0.027	0.028	0.027	0.028
6/4	0.027	0.027	0.022	0.019	0.027	0.029	0.028	0.027	0.027	0.03
6/5	0.028	0.027	0.022	0.019	0.027	0.028	0.028	0.028	0.028	0.028
6/6	0.028	0.028	0.022	0.019	0.027	0.028	0.027	0.028	0.029	0.028
6/7	0.028	0.028	0.022	0.019	0.028	0.028	0.027	0.028	0.028	0.028
6/8	0.029	0.028	0.022	0.019	0.028	0.028	0.029	0.028	0.028	0.028
6/9	0.029	0.028	0.022	0.019	0.028	0.028	0.029	0.028	0.028	0.028
6/10	0.029	0.028	0.022	0.019	0.029	0.028	0.028	0.029	0.03	0.028
6/11	0.029	0.028	0.022	0.086	0.031	0.028	0.028	0.029	0.029	0.028
6/12	0.029	0.029	0.022	0.105	0.029	0.029	0.032	0.029	0.029	0.029
6/13	0.029	0.028	0.022	0.037	0.029	0.029	0.031	0.03	0.029	0.029
6/14	0.029	0.028	0.026	0.024	0.029	0.03	0.029	0.032	0.029	0.029
6/15	0.03	0.028	0.022	0.021	0.03	0.03	0.029	0.03	0.03	0.029
6/16	0.031	0.028	0.021	0.021	0.03	0.03	0.029	0.029	0.029	0.029
6/17	0.03	0.028	0.021	0.021	0.032	0.03	0.029	0.029	0.029	0.029
6/18	0.03	0.027	0.021	0.025	0.03	0.029	0.034	0.029	0.029	0.029
6/19	0.03	0.027	0.021	0.022	0.029	0.029	0.05	0.03	0.029	0.029
6/20	0.032	0.027	0.021	0.021	0.029	0.029	0.033	0.029	0.029	0.029
6/21	0.032	0.027	0.02	0.021	0.03	0.03	0.03	0.03	0.03	0.029
6/22	0.032	0.027	0.02	0.021	0.032	0.032	0.029	0.031	0.03	0.028
6/23	0.03	0.026	0.02	0.021	0.03	0.03	0.029	0.03	0.029	0.028
6/24	0.03	0.026	0.021	0.021	0.029	0.029	0.029	0.031	0.029	0.028
6/25	0.03	0.026	0.02	0.289	0.029	0.029	0.029	0.03	0.029	0.028
6/26	0.03	0.026	0.019	0.082	0.029	0.031	0.029	0.03	0.028	0.028
6/27	0.03	0.025	0.019	0.034	0.029	0.031	0.029	0.03	0.028	0.028
6/28	0.03	0.025	0.019	0.025	0.029	0.03	0.029	0.03	0.028	0.028
6/29	0.03	0.025	0.02	0.024	0.029	0.029	0.029	0.03	0.028	0.029
6/30	0.03	0.027	0.019	0.023	0.029	0.029	0.029	0.03	0.028	0.027
7/1	0.03	0.025	0.02	0.023	0.029	0.029	0.029	0.03	0.027	0.027
7/2	0.03	0.024	0.019	0.023	0.029	0.029	0.028	0.03	0.027	0.027
7/3	0.03	0.025	0.018	0.027	0.029	0.03	0.028	0.03	0.027	0.026
7/4	0.03	0.025	0.018	0.025	0.028	0.03	0.028	0.03	0.027	0.026
7/5	0.03	0.024	0.018	0.024	0.028	0.03	0.028	0.03	0.026	0.026
7/6	0.03	0.024	0.017	0.024	0.028	0.03	0.028	0.03	0.026	0.026
7/7	0.03	0.034	0.017	0.023	0.028	0.029	0.028	0.032	0.026	0.025

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
7/8	0.033	0.027	0.017	0.023	0.028	0.03	0.028	0.03	0.026	0.025
7/9	0.032	0.024	0.018	3.107	0.027	0.03	0.027	0.03	0.025	0.025
7/10	0.03	0.024	0.017	2.149	0.028	0.029	0.027	0.03	0.025	0.028
7/11	0.03	0.023	0.016	0.487	0.027	0.029	0.029	0.03	0.025	0.025
7/12	0.03	0.023	0.016	0.126	0.027	0.029	0.028	0.03	0.025	0.027
7/13	0.03	0.023	0.016	0.048	0.026	0.029	0.027	0.03	0.025	0.025
7/14	0.03	0.023	0.016	0.031	0.026	0.029	0.026	0.03	0.025	0.024
7/15	0.031	0.023	0.015	0.028	0.026	0.028	0.027	0.03	0.024	0.024
7/16	0.03	0.022	0.015	0.027	0.026	0.028	0.026	0.03	0.802	0.024
7/17	0.03	0.022	0.015	0.027	0.026	0.028	0.026	0.032	0.536	0.023
7/18	0.03	0.022	0.015	0.027	0.026	0.028	0.026	0.035	0.134	0.023
7/19	0.03	0.022	0.016	0.027	0.025	0.028	0.026	0.033	0.05	0.023
7/20	0.03	0.022	0.015	0.027	0.025	0.028	0.026	0.031	0.03	0.023
7/21	0.03	0.022	0.015	0.027	0.026	0.028	0.027	0.031	0.027	0.023
7/22	0.03	0.022	0.014	0.027	0.026	0.029	0.027	0.031	0.026	0.023
7/23	0.03	0.022	0.014	0.027	0.025	0.031	0.026	0.031	0.026	0.023
7/24	0.03	0.022	0.014	0.027	0.025	0.028	0.025	0.031	0.026	0.023
7/25	0.029	0.021	0.014	0.027	0.025	0.028	0.025	0.031	0.026	0.023
7/26	0.029	0.021	0.014	0.027	0.025	0.028	0.025	0.031	0.027	0.025
7/27	0.029	0.021	0.013	0.027	0.025	0.028	0.025	0.033	0.027	0.027
7/28	0.032	0.021	0.013	0.034	0.025	0.033	0.025	0.032	0.026	0.025
7/29	0.03	0.021	0.013	0.032	0.025	0.031	0.025	0.032	0.026	0.023
7/30	0.03	0.021	0.013	0.03	0.024	0.031	0.025	0.032	0.026	0.023
7/31	0.029	0.021	0.014	0.029	0.024	0.029	0.026	0.039	0.026	0.022
8/1	0.029	0.021	0.014	0.031	0.024	0.028	0.025	0.035	0.026	0.022
8/2	0.029	0.02	0.013	0.03	0.024	0.028	0.025	0.033	0.026	0.024
8/3	0.029	0.02	0.012	0.03	0.024	0.029	0.025	0.033	0.025	0.03
8/4	0.03	0.02	0.013	0.03	0.024	0.029	0.027	0.034	0.026	0.026
8/5	0.029	0.02	0.013	0.03	0.024	0.029	0.025	0.034	0.028	0.024
8/6	0.029	0.025	0.013	0.03	0.024	0.029	0.025	0.033	0.026	0.023
8/7	0.029	0.024	0.013	0.03	0.024	0.029	0.024	0.034	0.025	0.023
8/8	0.029	0.021	0.014	0.03	0.023	0.028	0.024	0.034	0.025	0.023
8/9	0.029	0.023	0.012	0.03	0.023	0.028	0.024	0.034	0.025	0.023
8/10	0.028	0.022	0.012	0.03	0.024	0.028	0.024	0.034	0.025	0.023
8/11	0.03	0.021	0.012	0.03	0.023	0.028	0.024	0.034	0.025	0.023
8/12	0.03	0.02	0.012	0.03	0.023	0.028	0.025	0.035	0.025	0.023
8/13	0.031	0.02	0.012	0.03	0.023	0.028	0.025	0.034	0.025	0.023
8/14	0.029	0.02	0.012	0.03	0.023	0.028	0.024	0.034	0.027	0.024
8/15	0.031	0.019	0.012	0.03	0.023	0.028	0.024	0.034	0.025	0.023
8/16	0.031	0.019	0.011	0.03	0.025	0.028	0.024	0.034	0.025	0.023
8/17	0.03	0.019	0.011	0.03	0.025	0.028	0.024	0.034	0.025	0.023
8/18	0.029	0.019	0.011	0.03	0.023	0.028	0.024	0.034	0.024	0.022
8/19	0.029	0.019	0.011	0.03	0.025	0.029	0.024	0.034	0.029	0.023
8/20	0.03	0.019	0.011	0.03	0.024	0.028	0.024	0.034	0.026	0.023
8/21	0.033	0.019	0.01	0.03	0.025	0.028	0.024	0.034	0.025	0.022
8/22	0.033	0.022	0.01	0.03	0.023	0.028	0.024	0.034	0.025	0.022
8/23	0.031	0.02	0.01	0.031	0.022	0.028	0.023	0.034	0.025	0.022
8/24	0.03	0.019	0.01	0.03	0.022	0.028	0.023	0.034	0.025	0.022

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
8/25	0.03	0.019	0.01	0.03	0.022	0.028	0.023	0.034	0.025	0.023
8/26	0.031	0.019	0.01	0.03	0.022	0.028	0.023	0.034	0.025	0.022
8/27	0.031	0.018	0.01	0.03	0.022	0.027	0.023	0.034	0.026	0.023
8/28	0.031	0.018	0.01	0.03	0.022	0.027	0.023	0.034	0.026	0.022
8/29	0.031	0.018	0.009	0.03	0.022	0.027	0.023	0.037	0.025	0.022
8/30	0.031	0.018	0.009	0.03	0.022	0.027	0.023	0.036	0.025	0.022
8/31	0.031	0.018	0.009	0.029	0.022	0.027	0.023	0.034	0.026	0.022
9/1	0.031	0.018	0.009	0.029	0.022	0.027	0.023	0.034	0.025	0.022
9/2	0.031	0.018	0.009	0.03	0.022	0.027	0.023	0.034	0.025	0.022
9/3	0.031	0.018	0.009	0.03	0.021	0.027	0.022	0.034	0.025	0.023
9/4	0.031	0.018	0.009	0.029	0.022	0.027	0.022	0.034	0.025	0.022
9/5	0.031	0.018	0.008	0.029	0.021	0.027	0.022	0.034	0.025	0.021
9/6	0.032	0.018	0.015	0.029	0.021	0.027	0.022	0.034	0.025	0.021
9/7	0.032	0.018	0.011	0.029	0.021	0.027	0.022	0.04	0.025	0.021
9/8	0.031	0.018	0.009	0.031	0.022	0.027	0.022	0.036	0.025	0.021
9/9	0.031	0.017	0.008	0.03	0.023	0.027	0.022	0.035	0.025	0.021
9/10	0.033	0.017	0.008	0.031	0.027	0.027	0.022	0.035	0.025	0.021
9/11	0.032	0.017	0.008	0.032	0.022	0.027	0.022	0.035	0.024	0.021
9/12	0.031	0.017	0.008	0.031	0.021	0.026	0.022	0.035	0.024	0.021
9/13	0.031	0.017	0.009	0.03	0.021	0.026	0.022	0.035	0.024	0.022
9/14	0.031	0.017	0.008	0.033	0.021	0.026	0.022	0.035	0.024	0.021
9/15	0.031	0.017	0.008	0.037	0.021	0.026	0.028	0.035	0.024	0.021
9/16	0.031	0.017	0.008	0.033	0.021	0.027	0.024	0.035	0.025	0.021
9/17	0.031	0.017	0.007	0.031	0.02	0.026	0.022	0.034	0.025	0.02
9/18	0.031	0.016	0.007	0.03	0.02	0.026	0.021	0.034	0.024	0.022
9/19	0.032	0.016	0.007	0.03	0.021	0.025	0.024	0.034	0.023	0.022
9/20	0.033	0.016	0.007	0.031	0.022	0.029	0.023	0.033	0.023	0.021
9/21	0.031	0.016	0.007	0.033	0.022	0.029	0.021	0.033	0.023	0.02
9/22	0.03	0.016	0.007	0.032	0.021	0.026	0.023	0.033	0.025	0.02
9/23	0.03	0.015	0.007	0.192	0.02	0.025	0.023	0.033	0.025	0.022
9/24	0.03	0.015	0.007	0.085	0.021	0.024	0.021	0.032	0.023	0.021
9/25	0.03	0.015	0.007	0.043	0.021	0.024	0.022	0.032	0.025	0.02
9/26	0.03	0.015	0.006	0.035	0.025	0.024	0.02	0.032	0.027	0.02
9/27	0.03	0.015	0.006	0.033	0.022	0.025	0.021	0.031	0.025	0.02
9/28	0.029	0.015	0.006	0.033	0.02	0.024	0.021	0.031	0.023	0.02
9/29	0.029	0.014	0.008	0.033	0.02	0.023	0.024	0.031	0.028	0.02
9/30	0.032	0.014	0.009	0.033	0.02	0.023	0.022	0.031	0.025	0.02
10/1	0.03	0.016	0.007	0.033	0.02	0.023	0.022	0.03	0.024	0.02
10/2	0.029	0.014	0.006	0.033	0.02	0.024	0.025	0.032	0.024	0.019
10/3	0.029	0.014	0.006	0.033	0.02	0.023	0.024	0.031	0.024	0.02
10/4	0.028	0.014	0.007	0.034	0.02	0.023	0.024	0.03	0.024	0.025
10/5	0.028	0.013	0.006	0.033	0.025	0.023	0.023	0.029	0.024	0.021
10/6	0.028	0.013	0.006	0.033	0.024	0.022	0.023	0.029	0.024	0.02
10/7	0.028	0.015	0.005	0.034	0.022	0.022	0.023	0.029	0.024	0.02
10/8	0.028	0.014	0.006	0.033	0.022	0.021	0.023	0.029	0.024	0.02
10/9	0.028	0.013	0.006	0.033	0.021	0.021	0.023	0.03	0.024	0.021
10/10	0.028	0.013	0.005	0.033	0.021	0.021	0.023	0.029	0.024	0.021
10/11	0.027	0.013	0.005	0.033	0.022	0.021	0.024	0.028	0.024	0.024

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
10/12	0.027	0.012	0.005	0.033	0.025	0.021	0.024	0.028	0.024	0.024
10/13	0.027	0.012	0.008	0.033	0.023	0.021	0.024	0.027	0.024	0.022
10/14	0.028	0.016	0.007	0.032	0.025	0.02	0.026	0.027	0.023	0.021
10/15	0.027	0.013	0.005	0.032	0.024	0.02	0.027	0.028	0.023	0.021
10/16	0.026	0.012	0.005	0.032	0.025	0.02	0.025	0.03	0.023	0.022
10/17	0.026	0.012	0.005	0.032	0.027	0.02	0.024	0.029	0.023	0.026
10/18	0.026	0.012	0.005	0.032	0.024	0.02	0.024	0.028	0.023	0.024
10/19	0.026	0.011	0.005	0.032	0.024	0.02	0.024	0.027	0.023	0.023
10/20	0.026	0.011	0.005	0.031	0.024	0.02	0.024	0.027	0.023	0.023
10/21	0.077	0.014	0.005	0.031	0.025	0.019	0.024	0.026	0.022	0.023
10/22	0.122	0.012	0.005	0.031	0.025	0.019	0.024	0.026	0.022	0.025
10/23	0.044	0.011	0.007	0.031	0.025	0.019	0.024	0.027	0.022	0.025
10/24	0.029	0.011	0.006	0.031	0.026	0.019	0.025	0.027	0.022	0.025
10/25	0.026	0.011	0.005	0.031	0.027	0.019	0.026	0.026	0.022	0.024
10/26	0.027	0.011	0.004	0.03	0.026	0.02	0.026	0.026	0.022	0.024
10/27	0.032	0.011	0.004	0.031	0.027	0.019	0.025	0.026	0.022	0.024
10/28	0.029	0.011	0.004	0.03	0.026	0.018	0.025	0.026	0.021	0.028
10/29	0.027	0.01	0.004	0.03	0.026	0.018	0.025	0.026	0.021	0.026
10/30	0.027	0.01	0.004	0.029	0.026	0.018	0.024	0.027	0.021	0.025
10/31	0.029	0.01	0.004	0.029	0.026	0.019	0.024	0.025	0.021	0.025
11/1	0.029	0.01	0.004	0.029	0.026	0.019	0.024	0.025	0.022	0.025
11/2	0.028	0.01	0.005	0.029	0.028	0.018	0.03	0.027	0.021	0.025
11/3	0.028	0.01	0.008	0.029	0.027	0.018	0.028	0.025	0.02	0.025
11/4	0.028	0.01	0.008	0.028	0.026	0.018	0.026	0.027	0.02	0.025
11/5	0.028	0.01	0.005	0.028	0.026	0.018	0.025	0.026	0.02	0.025
11/6	0.028	0.01	0.004	0.028	0.026	0.019	0.025	0.025	0.02	0.025
11/7	0.028	0.012	0.004	0.028	0.026	0.018	0.025	0.025	0.02	0.027
11/8	0.028	0.01	0.005	0.028	0.027	0.017	0.025	0.025	0.02	0.027
11/9	0.028	0.009	0.005	0.028	0.027	0.017	0.025	0.025	0.022	0.025
11/10	0.028	0.011	0.005	0.031	0.026	0.02	0.025	0.025	0.021	0.025
11/11	0.028	0.011	0.005	0.028	0.026	0.019	0.027	0.024	0.02	0.027
11/12	0.028	0.009	0.005	0.027	0.026	0.018	0.025	0.024	0.019	0.025
11/13	0.028	0.009	0.005	0.027	0.026	0.017	0.025	0.024	0.019	0.026
11/14	0.028	0.009	0.005	0.027	0.026	0.017	0.025	0.024	0.019	0.032
11/15	0.028	0.009	0.005	0.027	0.026	0.018	0.025	0.024	0.282	0.026
11/16	0.028	0.011	0.005	0.027	0.025	0.017	0.025	0.024	0.564	0.029
11/17	0.028	0.01	0.005	0.027	0.025	0.017	0.025	0.024	0.086	0.026
11/18	0.028	0.009	0.005	0.027	0.025	0.017	0.025	0.024	0.027	0.025
11/19	0.028	0.009	0.005	0.027	0.027	0.018	0.027	0.024	0.02	0.025
11/20	0.029	0.009	0.006	0.027	0.027	0.017	0.025	0.024	0.019	0.025
11/21	0.03	0.01	0.005	0.027	0.026	0.018	0.025	0.024	0.019	0.026

Day	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
11/22	0.029	0.009	0.005	0.027	0.026	0.018	0.025	0.024	0.02	0.026
11/23	0.028	0.009	0.005	0.027	0.026	0.017	0.025	0.024	0.019	0.026
11/24	0.028	0.009	0.006	0.026	0.026	0.018	0.028	0.025	0.02	0.026
11/25	0.028	0.01	0.005	0.026	0.073	0.018	0.027	0.025	0.02	0.026
11/26	0.029	0.011	0.007	0.029	0.032	0.018	0.026	0.024	0.02	0.026
11/27	0.031	0.01	0.006	0.029	0.028	0.018	0.026	0.025	0.021	0.026
11/28	0.031	0.01	0.005	0.027	0.027	0.018	0.029	0.025	0.023	0.026
11/29	0.029	0.01	0.005	0.027	0.028	0.018	0.028	0.024	0.127	0.026
11/30	0.03	0.01	0.005	0.027	0.029	0.018	0.027	0.024	0.035	0.029
12/1	0.029	0.012	0.005	0.027	0.027	0.018	0.026	0.039	0.022	0.394
12/2	0.029	0.01	0.006	0.027	0.027	0.018	0.026	0.027	0.02	0.129
12/3	0.03	0.01	0.006	0.027	0.027	0.018	0.026	0.024	0.02	0.037
12/4	0.031	0.01	0.005	0.027	0.027	0.018	0.027	0.024	0.02	0.028
12/5	0.03	0.011	0.008	0.027	0.027	0.018	0.027	0.024	0.021	0.027
12/6	0.029	0.046	0.007	0.027	0.027	0.018	0.027	0.024	0.021	0.027
12/7	0.029	0.164	0.005	0.027	0.027	0.018	0.027	0.171	0.021	0.027
12/8	0.029	0.023	0.005	0.027	0.027	0.018	0.027	0.105	0.021	0.027
12/9	0.029	0.011	0.005	0.027	0.027	0.018	0.027	0.032	0.021	0.027
12/10	0.029	0.01	0.006	0.027	0.027	0.018	0.054	0.026	0.021	0.027
12/11	0.029	0.01	0.006	0.027	0.027	0.018	0.071	0.025	0.021	0.028
12/12	0.029	0.01	0.006	0.027	0.027	0.018	0.031	0.025	0.021	0.029
12/13	0.029	0.01	0.006	0.027	0.028	0.018	0.028	0.025	0.021	0.03
12/14	0.029	0.011	0.068	0.027	0.028	0.018	0.027	0.025	0.021	0.028
12/15	0.03	0.011	0.115	0.027	0.028	0.018	0.027	0.025	0.021	0.028
12/16	0.03	0.011	0.028	0.189	0.028	0.018	0.028	0.025	0.021	0.028
12/17	0.03	0.011	0.008	0.455	0.03	0.018	0.028	0.025	0.021	0.028
12/18	0.03	0.011	0.006	0.066	0.029	0.018	0.027	0.025	0.021	0.028
12/19	0.029	0.011	0.006	0.027	0.032	0.049	0.027	0.025	0.021	0.028
12/20	0.029	0.011	0.007	0.027	0.049	0.229	0.028	0.025	0.021	0.028
12/21	0.029	0.013	0.007	0.027	0.03	0.041	0.028	0.025	0.021	0.028
12/22	0.029	0.012	0.006	0.027	0.028	0.02	0.029	0.025	0.021	0.029
12/23	0.029	0.011	0.006	0.027	0.028	0.018	0.069	0.025	0.021	0.028
12/24	0.029	0.011	0.007	0.027	0.028	0.018	0.047	0.025	0.022	0.028
12/25	0.031	0.011	0.007	0.027	0.028	0.018	0.03	0.025	0.022	0.028
12/26	0.03	0.011	0.007	0.027	0.028	0.019	0.028	0.025	0.022	0.113
12/27	0.03	0.011	0.007	0.027	0.028	0.019	0.028	0.025	0.022	0.051
12/28	0.03	0.011	0.007	0.027	0.028	0.019	0.028	0.025	0.022	0.03
12/29	0.03	0.012	0.007	0.027	0.028	0.019	0.717	0.025	0.022	0.028
12/30	0.03	0.012	0.007	0.027	0.028	0.019	0.885	0.026	0.022	0.029
12/31	0.03	0.011	0.007	0.027	0.028	0.02	0.099	0.042	0.022	0.12

Table AE.11: Modelled 10 Year Average Streamflow for Eighteen Mile River, at the outlet to Lake Huron.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
136948.281	1.585

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	235587.913	2.727
Summer	14153.635	0.164
Fall	103600.531	1.199
Winter	195164.300	2.259

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	162806.586	1.884
February	183074.120	2.119
March	309973.935	3.588
April	290223.648	3.359
May	295167.763	3.416
June	37336.032	0.432
July	13949.419	0.161
August	8217.476	0.095
September	38228.832	0.442
October	86661.708	1.003
November	107250.190	1.241
December	121953.043	1.411

Month	Monthly Average Daily Streamflow (cms)									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	2.303	2.919	1.080	1.113	0.319	1.690	0.441	2.303	2.813	3.862
February	3.282	1.103	1.655	1.299	4.446	4.801	1.072	0.637	0.543	2.350
March	4.341	3.881	0.957	3.512	1.907	5.146	2.837	5.517	3.087	4.690
April	2.753	0.613	4.048	0.698	5.166	5.000	1.031	3.558	5.448	5.275
May	7.581	0.215	0.110	2.122	4.348	6.134	5.554	5.578	0.729	1.792
June	1.347	0.126	0.094	1.088	0.294	0.325	0.255	0.427	0.174	0.192
July	0.246	0.044	0.047	0.271	0.201	0.211	0.170	0.239	0.092	0.094
August	0.131	0.029	0.027	0.176	0.109	0.092	0.102	0.162	0.047	0.076
September	0.418	0.017	0.017	1.247	1.061	0.059	0.337	0.085	1.137	0.046
October	0.309	0.011	0.043	0.310	4.033	0.040	2.480	0.086	0.817	1.902
November	1.375	0.262	1.830	1.126	1.199	0.553	1.591	1.737	1.729	1.012
December	0.948	1.276	1.835	0.765	1.995	0.582	2.281	1.780	0.859	1.794
Average	2.086	0.875	0.979	1.144	2.090	2.053	1.513	1.842	1.456	1.924

Table AE.12: Modelled 10 Year Average Streamflow for Boyd Creek.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
30694.876	0.355

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	39492.125	0.457
Summer	3024.875	0.035
Fall	30502.906	0.353
Winter	50137.917	0.580

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	44161.609	0.511
February	48803.774	0.565
March	69142.018	0.800
April	43355.808	0.502
May	52698.147	0.610
June	6299.424	0.073
July	2507.830	0.029
August	1524.263	0.018
September	12538.994	0.145
October	25926.463	0.300
November	31193.241	0.361
December	32586.277	0.377

Month	Monthly Average Daily Streamflow (cms)									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	0.646	0.727	0.349	0.296	0.095	0.482	0.149	0.564	0.766	1.038
February	0.921	0.211	0.374	0.287	1.268	1.294	0.341	0.189	0.132	0.631
March	0.954	0.927	0.221	0.634	0.536	1.166	0.441	1.246	0.797	1.081
April	0.325	0.440	0.686	0.437	0.609	0.732	0.113	0.425	0.527	0.724
May	0.846	0.017	0.016	0.793	0.517	0.901	1.007	1.575	0.245	0.182
June	0.156	0.013	0.006	0.371	0.021	0.056	0.019	0.051	0.018	0.018
July	0.018	0.006	0.003	0.095	0.016	0.016	0.015	0.061	0.049	0.011
August	0.014	0.006	0.001	0.049	0.027	0.011	0.013	0.014	0.009	0.032
September	0.159	0.002	0.001	0.410	0.347	0.006	0.168	0.010	0.344	0.005
October	0.082	0.001	0.056	0.051	1.141	0.004	0.701	0.083	0.261	0.622
November	0.391	0.157	0.557	0.328	0.302	0.231	0.443	0.400	0.511	0.292
December	0.226	0.353	0.490	0.218	0.492	0.200	0.609	0.469	0.252	0.463
Average	0.395	0.238	0.230	0.331	0.448	0.425	0.335	0.424	0.326	0.425

Table AE.13: Modelled 10 Year Average Streamflow for Eighteen Mile River @ Boyd Creek Confluence.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
90229.919	1.044

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	125643.162	1.454
Summer	12546.125	0.145
Fall	77838.330	0.901
Winter	145845.499	1.688

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	124691.644	1.443
February	140048.505	1.621
March	211682.508	2.450
April	119688.192	1.385
May	174337.363	2.018
June	31284.576	0.362
July	13319.814	0.154
August	7770.983	0.090
September	29836.800	0.345
October	65518.792	0.758
November	78472.834	0.908
December	93492.604	1.082

Month	Monthly Average Daily Streamflow (cms)									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	1.815	2.117	0.822	0.935	0.257	1.373	0.307	1.705	2.121	2.978
February	2.642	0.726	1.206	0.974	3.725	3.192	0.862	0.601	0.381	1.900
March	3.036	2.694	0.578	1.910	1.758	3.796	1.446	3.761	2.316	3.205
April	1.506	1.018	1.614	1.220	1.756	1.804	0.261	1.213	1.638	1.825
May	3.682	0.206	0.128	2.258	1.716	3.389	3.057	4.426	0.743	0.573
June	0.842	0.142	0.074	0.777	0.255	0.571	0.261	0.284	0.213	0.201
July	0.237	0.045	0.040	0.286	0.179	0.202	0.156	0.199	0.113	0.083
August	0.155	0.041	0.024	0.148	0.093	0.092	0.099	0.136	0.047	0.064
September	0.365	0.018	0.016	0.902	0.819	0.054	0.245	0.072	0.927	0.036
October	0.272	0.012	0.026	0.505	2.897	0.038	1.684	0.072	0.774	1.302
November	1.019	0.166	1.337	0.945	0.881	0.396	1.132	1.158	1.320	0.729
December	0.763	0.912	1.264	0.756	1.606	0.496	1.746	1.290	0.682	1.307
Average	1.361	0.675	0.594	0.968	1.329	1.284	0.938	1.243	0.940	1.184

Table AE.14: Modelled 10 Year Average Streamflow for Nine Mile River.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
356434.068	4.125

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	635078.692	7.350
Summer	118089.830	1.367
Fall	239355.819	2.770
Winter	433446.098	5.017

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	373517.512	4.323
February	374249.059	4.332
March	690480.372	7.992
April	847965.312	9.814
May	598479.701	6.927
June	332244.576	3.845
July	155815.432	1.803
August	79990.792	0.926
September	88221.888	1.021
October	201578.446	2.333
November	276470.777	3.200
December	297757.533	3.446

Month	Monthly Average Daily Streamflow (cms)									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	6.047	6.151	1.308	3.128	1.855	4.283	1.102	7.312	5.509	6.535
February	5.831	3.453	3.437	3.218	6.539	8.752	1.719	2.127	1.928	6.312
March	9.284	7.286	3.132	7.321	3.217	12.897	8.352	12.064	5.158	11.205
April	13.637	3.200	6.319	3.188	15.887	15.506	5.905	9.126	10.792	14.584
May	12.696	1.730	2.865	5.874	13.268	8.172	6.969	7.847	4.507	5.342
June	5.382	0.639	1.684	5.084	5.311	5.060	4.901	5.669	1.944	2.780
July	2.131	0.275	0.635	3.621	2.450	2.031	1.905	2.779	1.071	1.137
August	0.965	0.365	0.303	2.418	1.193	0.812	0.932	1.016	0.388	0.866
September	1.179	0.084	0.165	3.712	1.660	0.323	0.887	0.428	1.519	0.254
October	1.445	0.092	0.393	3.968	6.757	0.206	4.568	0.728	2.681	2.493
November	3.169	0.645	2.923	4.101	5.296	1.053	4.326	4.334	2.867	3.286
December	3.202	1.976	3.770	2.882	5.969	0.897	4.867	3.197	3.215	4.487
Average	5.414	2.158	2.245	4.043	5.783	4.999	3.869	4.719	3.465	4.940

Table AE.15: Modelled 10 Year Average Streamflow for Kerry Creek.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
36283.261	0.420

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	61211.834	0.708
Summer	11167.828	0.129
Fall	22002.766	0.255
Winter	50864.833	0.589

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	32427.545	0.375
February	45867.855	0.531
March	104029.250	1.204
April	87112.976	1.008
May	38802.797	0.449
June	26577.554	0.308
July	9852.671	0.114
August	6304.877	0.073
September	14126.057	0.163
October	15471.488	0.179
November	30391.050	0.352
December	30260.436	0.350

Month	Monthly Average Daily Streamflow (cms)									
	1995	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
January	0.752	0.401	0.640	0.204	0.040	0.178	0.212	0.553	0.030	0.745
February	0.241	1.256	1.301	0.016	0.000	0.395	0.665	0.918	0.042	0.475
March	1.455	1.344	2.456	0.301	0.025	0.480	0.901	1.597	1.708	1.774
April	0.551	1.232	1.617	0.018	0.155	0.367	3.490	1.705	0.243	0.704
May	0.293	0.797	0.477	0.005	0.002	0.734	0.380	0.624	0.402	0.776
June	0.552	0.484	0.167	0.002	0.001	0.741	0.207	0.326	0.262	0.334
July	0.115	0.250	0.020	0.001	0.000	0.261	0.162	0.075	0.042	0.213
August	0.203	0.095	0.004	0.000	0.000	0.284	0.103	0.007	0.018	0.016
September	0.017	0.841	0.003	0.000	0.000	0.430	0.306	0.003	0.018	0.018
October	0.055	0.394	0.010	0.000	0.000	0.425	0.420	0.001	0.485	0.001
November	0.664	0.502	0.002	0.035	0.432	0.315	0.519	0.534	0.462	0.052
December	0.355	0.903	0.001	0.000	0.135	0.359	0.550	0.139	0.796	0.265
Average	0.438	0.708	0.558	0.048	0.066	0.414	0.660	0.540	0.376	0.448

Table AE.16: Modelled 10 Year Average Streamflow for Gully #64.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
196.594	0.002

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	306.204	0.004
Summer	60.997	0.001
Fall	116.409	0.001
Winter	303.877	0.004

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	170.561	0.002
February	282.280	0.003
March	646.827	0.007
April	431.571	0.005
May	168.095	0.002
June	125.478	0.001
July	36.672	0.000
August	32.197	0.000
September	94.932	0.001
October	82.728	0.001
November	155.501	0.002
December	164.706	0.002

Month	Monthly Average Daily Streamflow (cms)									
	1995	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
January	0.004	0.002	0.003	0.001	0.000	0.001	0.001	0.003	0.000	0.004
February	0.001	0.008	0.008	0.000	0.000	0.003	0.004	0.005	0.000	0.004
March	0.009	0.009	0.015	0.002	0.000	0.003	0.006	0.010	0.011	0.010
April	0.002	0.006	0.008	0.000	0.001	0.001	0.020	0.008	0.001	0.003
May	0.001	0.003	0.002	0.000	0.000	0.004	0.001	0.002	0.002	0.005
June	0.004	0.002	0.001	0.000	0.000	0.004	0.001	0.001	0.001	0.001
July	0.000	0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001
August	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000
September	0.000	0.006	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000
October	0.001	0.002	0.000	0.000	0.000	0.001	0.003	0.000	0.003	0.000
November	0.004	0.002	0.000	0.000	0.003	0.002	0.001	0.003	0.002	0.001
December	0.001	0.005	0.000	0.000	0.001	0.001	0.003	0.001	0.005	0.002
Average	0.002	0.004	0.003	0.000	0.001	0.002	0.004	0.003	0.002	0.002

Table AE.17: Modelled 10 Year Average Streamflow for Gully #65.

Daily Average Streamflow	
Volume (m3)	**Streamflow (cms)**
5193.687	0.060

Season	Seasonal Daily Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
Spring	8716.185	0.101
Summer	1727.209	0.020
Fall	3218.705	0.037
Winter	7126.906	0.082

Month	Monthly Average Streamflow	
	Volume (m3)	**Streamflow (cms)**
January	4610.481	0.053
February	6550.407	0.076
March	13985.802	0.162
April	12045.959	0.139
May	6005.979	0.070
June	4119.065	0.048
July	1646.484	0.019
August	1041.494	0.012
September	1962.562	0.023
October	2349.940	0.027
November	4334.814	0.050
December	4479.130	0.052

Month	Monthly Average Daily Streamflow (cms)									
	1995	**1996**	**1997**	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**
January	0.100	0.056	0.092	0.026	0.005	0.036	0.030	0.077	0.012	0.100
February	0.037	0.169	0.182	0.003	0.000	0.060	0.088	0.123	0.011	0.085
March	0.198	0.188	0.337	0.041	0.003	0.068	0.115	0.224	0.226	0.218
April	0.078	0.162	0.221	0.008	0.019	0.057	0.477	0.225	0.045	0.102
May	0.046	0.123	0.078	0.003	0.001	0.101	0.066	0.100	0.065	0.112
June	0.080	0.076	0.030	0.001	0.000	0.104	0.037	0.053	0.042	0.054
July	0.020	0.039	0.007	0.000	0.000	0.043	0.024	0.015	0.010	0.032
August	0.031	0.017	0.002	0.000	0.000	0.042	0.015	0.003	0.004	0.005
September	0.004	0.109	0.002	0.000	0.000	0.063	0.041	0.001	0.004	0.004
October	0.009	0.059	0.001	0.000	0.000	0.061	0.069	0.001	0.072	0.001
November	0.089	0.074	0.001	0.006	0.055	0.047	0.080	0.075	0.068	0.009
December	0.054	0.125	0.001	0.000	0.031	0.050	0.082	0.024	0.114	0.039
Average	0.062	0.100	0.079	0.007	0.009	0.061	0.094	0.077	0.056	0.063

Table AE.18: Modelled 10 Year Average Streamflow for Gully Creek.

Daily Average	
Volume (m3)	**Streamflow (cms)**
9106.328	0.105

Season	Seasonal Daily Average	
	Volume (m3)	**Streamflow (cms)**
Spring	11712.929	0.136
Summer	5944.226	0.069
Fall	4592.967	0.053
Winter	14226.306	0.165

Month	Monthly Average	
	Volume (m3)	**Streamflow (cms)**
January	9165.646	0.106
February	17655.957	0.204
March	20336.609	0.235
April	16784.352	0.194
May	8758.452	0.101
June	5092.992	0.059
July	7918.699	0.092
August	4916.996	0.057
September	4802.976	0.056
October	4392.743	0.051
November	5721.846	0.066
December	5619.066	0.065

Month	Monthly Average Daily Streamflow (cms)									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	0.162	0.133	0.055	0.036	0.049	0.066	0.036	0.078	0.178	0.268
February	0.503	0.235	0.053	0.127	0.380	0.311	0.033	0.078	0.169	0.156
March	0.516	0.492	0.038	0.036	0.071	0.276	0.029	0.573	0.040	0.282
April	0.253	0.078	0.034	0.028	0.470	0.185	0.042	0.251	0.209	0.393
May	0.230	0.052	0.045	0.038	0.049	0.053	0.049	0.401	0.048	0.049
June	0.066	0.061	0.050	0.060	0.059	0.060	0.055	0.061	0.058	0.059
July	0.068	0.055	0.041	0.343	0.058	0.062	0.057	0.065	0.113	0.055
August	0.070	0.049	0.032	0.068	0.051	0.064	0.055	0.071	0.057	0.052
September	0.074	0.044	0.025	0.081	0.045	0.059	0.050	0.074	0.056	0.048
October	0.068	0.034	0.018	0.071	0.051	0.048	0.054	0.062	0.053	0.049
November	0.065	0.028	0.017	0.090	0.058	0.041	0.054	0.169	0.087	0.055
December	0.063	0.034	0.022	0.084	0.058	0.044	0.159	0.061	0.047	0.078
Average	0.178	0.108	0.036	0.088	0.117	0.106	0.056	0.162	0.093	0.129

Table AE.19: Modelled 10 Year Average Streamflow for Momnersteg-Durand Drain.

Daily Average	
Volume (m3)	**Streamflow (cms)**
1432.544	0.017

Season	**Seasonal Daily Average**	
	Volume (m3)	**Streamflow (cms)**
Spring	1837.409	0.021
Summer	798.543	0.009
Fall	581.207	0.007
Winter	2525.141	0.029

Month	**Monthly Average**	
	Volume (m3)	**Streamflow (cms)**
January	1676.717	0.019
February	3140.395	0.036
March	3728.857	0.043
April	2413.152	0.028
May	1427.551	0.017
June	676.224	0.008
July	1284.294	0.015
August	530.663	0.006
September	510.189	0.006
October	473.151	0.005
November	825.731	0.010
December	876.244	0.010

Month	**MD Drain - Monthly Average Daily Streamflow (cms)**									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	0.025	0.024	0.014	0.006	0.006	0.010	0.004	0.012	0.039	0.055
February	0.096	0.033	0.016	0.024	0.069	0.046	0.006	0.011	0.033	0.030
March	0.101	0.098	0.003	0.007	0.005	0.054	0.004	0.099	0.007	0.054
April	0.050	0.012	0.005	0.004	0.044	0.042	0.009	0.044	0.023	0.047
May	0.039	0.006	0.005	0.005	0.006	0.008	0.007	0.075	0.006	0.006
June	0.008	0.007	0.006	0.012	0.008	0.008	0.008	0.008	0.008	0.008
July	0.008	0.006	0.004	0.071	0.007	0.007	0.007	0.008	0.024	0.006
August	0.007	0.005	0.002	0.008	0.006	0.007	0.006	0.009	0.006	0.005
September	0.008	0.004	0.001	0.011	0.005	0.007	0.005	0.009	0.006	0.005
October	0.008	0.002	0.001	0.008	0.006	0.005	0.006	0.007	0.006	0.005
November	0.007	0.002	0.001	0.016	0.008	0.004	0.007	0.027	0.018	0.007
December	0.008	0.004	0.003	0.013	0.008	0.007	0.027	0.010	0.005	0.016
Average	0.030	0.017	0.005	0.015	0.015	0.017	0.008	0.026	0.015	0.020

Table AE.20: Modelled 10 Year Average Streamflow for Zurich Drain.

Daily Average	
Volume (m3)	**Streamflow (cms)**
14773.193	0.171

Season	**Seasonal Daily Average**	
	Volume (m3)	**Streamflow (cms)**
Spring	18281.019	0.212
Summer	10415.332	0.121
Fall	8561.955	0.099
Winter	21906.519	0.254

Month	**Monthly Average**	
	Volume (m3)	**Streamflow (cms)**
January	15356.625	0.178
February	26992.999	0.312
March	30875.737	0.357
April	23252.544	0.269
May	15220.614	0.176
June	9323.712	0.108
July	14102.152	0.163
August	8347.076	0.097
September	8847.648	0.102
October	8155.603	0.094
November	10304.290	0.119
December	9347.644	0.108

Month	**Monthly Average Daily Streamflow (cms)**									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	0.235	0.208	0.128	0.065	0.070	0.108	0.049	0.121	0.321	0.472
February	0.787	0.281	0.093	0.216	0.620	0.381	0.057	0.100	0.295	0.295
March	0.780	0.831	0.078	0.075	0.073	0.422	0.074	0.724	0.085	0.432
April	0.439	0.130	0.090	0.063	0.428	0.356	0.100	0.371	0.222	0.492
May	0.368	0.086	0.084	0.097	0.090	0.110	0.118	0.638	0.081	0.089
June	0.109	0.090	0.083	0.149	0.110	0.114	0.117	0.110	0.100	0.098
July	0.114	0.099	0.060	0.624	0.085	0.115	0.096	0.124	0.217	0.098
August	0.127	0.093	0.052	0.106	0.087	0.092	0.084	0.125	0.102	0.100
September	0.116	0.055	0.050	0.170	0.112	0.098	0.107	0.119	0.109	0.087
October	0.134	0.059	0.038	0.106	0.119	0.075	0.107	0.105	0.075	0.124
November	0.112	0.051	0.037	0.169	0.110	0.077	0.114	0.250	0.171	0.100
December	0.102	0.065	0.051	0.123	0.098	0.078	0.235	0.110	0.070	0.147
Average	0.285	0.171	0.070	0.164	0.167	0.169	0.105	0.241	0.154	0.211

Table AE.20: Modelled 10 Year Average Streamflow for Datar Miller.

Daily Average	
Volume (m3)	**Streamflow (cms)**
4717.293	0.055

Season	**Seasonal Daily Average**	
	Volume (m3)	**Streamflow (cms)**
Spring	6080.588	0.070
Summer	2893.743	0.033
Fall	2222.379	0.026
Winter	7703.776	0.089

Month	**Monthly Average**	
	Volume (m3)	**Streamflow (cms)**
January	5386.622	0.062
February	9761.944	0.113
March	10672.072	0.124
April	8319.744	0.096
May	4707.128	0.054
June	2500.704	0.029
July	4251.995	0.049
August	2155.262	0.025
September	2105.568	0.024
October	1943.443	0.022
November	2863.833	0.033
December	3030.410	0.035

Month	**Datar Miller - Monthly Average Daily Streamflow (cms)**									
	1997	**1998**	**1999**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**
January	0.076	0.071	0.054	0.022	0.022	0.035	0.016	0.039	0.117	0.172
February	0.295	0.097	0.035	0.071	0.226	0.137	0.022	0.040	0.107	0.100
March	0.264	0.307	0.016	0.022	0.020	0.161	0.017	0.261	0.027	0.141
April	0.194	0.042	0.018	0.014	0.140	0.135	0.027	0.150	0.069	0.175
May	0.123	0.024	0.021	0.019	0.024	0.028	0.026	0.233	0.024	0.024
June	0.029	0.027	0.021	0.038	0.029	0.029	0.030	0.029	0.029	0.028
July	0.030	0.023	0.016	0.213	0.026	0.029	0.027	0.031	0.072	0.025
August	0.030	0.020	0.011	0.030	0.023	0.028	0.024	0.034	0.026	0.023
September	0.031	0.017	0.008	0.039	0.021	0.026	0.022	0.034	0.025	0.021
October	0.033	0.012	0.005	0.032	0.024	0.020	0.024	0.028	0.023	0.023
November	0.029	0.010	0.005	0.050	0.028	0.018	0.026	0.086	0.054	0.026
December	0.030	0.017	0.013	0.047	0.029	0.027	0.084	0.034	0.021	0.050
Average	0.097	0.056	0.019	0.050	0.051	0.056	0.029	0.083	0.049	0.067

APPENDIX F

Model Calculations vs. Rating Curve Measurements

Results

Table AF.1: Daily Streamflow Comparison between Model Calculations and Observed Measurements for Boyd Creek. "-"denotes streamflow over the rating curve limit of 1.055 cms.

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
4/1/2006	0.589			
4/2/2006	0.656			
4/3/2006	0.460	0.234	0.051	0.016
4/4/2006	0.329	0.360	0.001	0.064
4/5/2006	0.398	0.292	0.011	0.034
4/6/2006	0.430	0.212	0.047	0.011
4/7/2006	0.482	0.439	0.002	0.110
4/8/2006	1.188	1.025	0.027	0.842
4/9/2006	0.831	0.488	0.118	0.145
4/10/2006	0.582	0.264	0.101	0.025
4/11/2006	0.408	0.187	0.049	0.006
4/12/2006	0.335	0.174	0.026	0.004
4/13/2006	1.506	0.284	1.492	0.031
4/14/2006	1.559	0.988	0.326	0.775
4/15/2006	1.163	0.726	0.191	0.383
4/16/2006	0.807	0.424	0.146	0.101
4/17/2006	0.606	0.261	0.119	0.024
4/18/2006	0.441	0.176	0.070	0.005
4/19/2006	0.323	0.150	0.030	0.002
4/20/2006	0.240	0.135	0.011	0.001
4/21/2006	0.184	0.118	0.004	0.000
4/22/2006	0.200	0.110	0.008	0.000
4/23/2006	1.094	0.131	0.927	0.001
4/24/2006	1.725	0.138	2.517	0.001
4/25/2006	1.387	0.158	1.511	0.003
4/26/2006	1.309	0.178	1.280	0.005
4/27/2006	0.945	0.148	0.636	0.002
4/28/2006	0.682	0.117	0.320	0.000
4/29/2006	0.494	0.093	0.161	0.000
4/30/2006	0.366	0.076	0.084	0.001
5/1/2006	0.297	0.061	0.056	0.002
5/2/2006	0.255	0.059	0.038	0.002
5/3/2006	0.228	0.056	0.030	0.003
5/4/2006	0.208	0.054	0.024	0.003
5/5/2006	0.183	0.052	0.017	0.003
5/6/2006	0.155	0.044	0.012	0.004
5/7/2006	0.127	0.022	0.011	0.007
5/8/2006	0.100	0.015	0.007	0.009
5/9/2006	0.108	0.012	0.009	0.009
5/10/2006	0.119	0.016	0.011	0.008
5/11/2006	0.191	0.038	0.023	0.005
5/12/2006	0.304	0.041	0.069	0.004
5/13/2006	0.271	0.028	0.059	0.006
5/14/2006	0.246	0.023	0.050	0.007
5/15/2006	0.227	0.010	0.047	0.009
5/16/2006	0.209	0.021	0.035	0.007
5/17/2006	0.199	0.027	0.030	0.006
5/18/2006	0.232	0.037	0.038	0.005
5/19/2006	0.506	0.101	0.164	0.000
5/20/2006	0.359	0.120	0.057	0.000
5/21/2006	0.292	0.127	0.027	0.000
5/22/2006	0.240	0.108	0.017	0.000
5/23/2006	0.164	0.077	0.008	0.001
5/24/2006	0.114	0.065	0.002	0.002
5/25/2006	0.082	0.064	0.000	0.002
5/26/2006	0.060	0.071	0.000	0.001
5/27/2006	0.046	0.051	0.000	0.003
5/28/2006	0.036	0.028	0.000	0.006
5/29/2006	0.030	0.021	0.000	0.007
5/30/2006	0.026	0.022	0.000	0.007
5/31/2006	0.024	0.013	0.000	0.009
6/1/2006	0.022	0.014	0.000	0.009
6/2/2006	0.021	0.005	0.000	0.010
6/3/2006	0.019	0.002	0.000	0.011
6/4/2006	0.019	0.002	0.000	0.011
6/5/2006	0.019	0.000	0.000	0.011
6/6/2006	0.019	0.000	0.000	0.011
6/7/2006	0.019	0.000	0.000	0.011
6/8/2006	0.019	0.000	0.000	0.011
6/9/2006	0.019	0.000	0.000	0.011
6/10/2006	0.019	0.000	0.000	0.011
6/11/2006	0.019	0.000	0.000	0.011
6/12/2006	0.019	0.000	0.000	0.011
6/13/2006	0.019	0.000	0.000	0.011
6/14/2006	0.019	0.000	0.000	0.011
6/15/2006	0.019	0.000	0.000	0.011
6/16/2006	0.019	0.000	0.000	0.011
6/17/2006	0.018	0.000	0.000	0.011
6/18/2006	0.018	0.000	0.000	0.011
6/19/2006	0.018	0.000	0.000	0.011
6/20/2006	0.018	0.000	0.000	0.011
6/21/2006	0.018	0.000	0.000	0.011
6/22/2006	0.017	0.000	0.000	0.011
6/23/2006	0.017	0.000	0.000	0.011
6/24/2006	0.017	0.000	0.000	0.011
6/25/2006	0.017	0.000	0.000	0.011
6/26/2006	0.016	0.000	0.000	0.011
6/27/2006	0.016	0.000	0.000	0.011
6/28/2006	0.016	0.000	0.000	0.011
6/29/2006	0.016	0.000	0.000	0.011
6/30/2006	0.015	0.000	0.000	0.011
7/1/2006	0.015	0.000	0.000	0.011

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
7/2/2006	0.015	0.000	0.000	0.011
7/3/2006	0.014	0.000	0.000	0.011
7/4/2006	0.014	0.000	0.000	0.011
7/5/2006	0.014	0.000	0.000	0.011
7/6/2006	0.013	0.000	0.000	0.011
7/7/2006	0.013	0.000	0.000	0.011
7/8/2006	0.013	0.000	0.000	0.011
7/9/2006	0.012	0.000	0.000	0.011
7/10/2006	0.012	0.000	0.000	0.011
7/11/2006	0.012	0.000	0.000	0.011
7/12/2006	0.012	0.080	0.005	0.001
7/13/2006	0.012	0.056	0.002	0.003
7/14/2006	0.011	0.019	0.000	0.008
7/15/2006	0.011	0.007	0.000	0.010
7/16/2006	0.011	0.001	0.000	0.011
7/17/2006	0.011	0.001	0.000	0.011
7/18/2006	0.011	0.003	0.000	0.011
7/19/2006	0.011	0.000	0.000	0.011
7/20/2006	0.010	0.000	0.000	0.011
7/21/2006	0.010	0.000	0.000	0.011
7/22/2006	0.010	0.000	0.000	0.011
7/23/2006	0.010	0.000	0.000	0.011
7/24/2006	0.009	0.000	0.000	0.011
7/25/2006	0.009	0.000	0.000	0.011
7/26/2006	0.009	0.000	0.000	0.011
7/27/2006	0.008	0.000	0.000	0.011
7/28/2006	0.008	0.000	0.000	0.011
7/29/2006	0.008	0.000	0.000	0.011
7/30/2006	0.008	0.000	0.000	0.011
7/31/2006	0.008	0.000	0.000	0.011
8/1/2006	0.008	0.000	0.000	0.011
8/2/2006	0.008	0.006	0.000	0.010
8/3/2006	0.058	0.000	0.003	0.011
8/4/2006	0.145	0.000	0.021	0.011
8/5/2006	0.144	0.000	0.021	0.011
8/6/2006	0.116	0.000	0.013	0.011
8/7/2006	0.093	0.000	0.009	0.011
8/8/2006	0.076	0.000	0.006	0.011
8/9/2006	0.062	0.000	0.004	0.011
8/10/2006	0.051	0.000	0.003	0.011
8/11/2006	0.042	0.000	0.002	0.011
8/12/2006	0.035	0.000	0.001	0.011
8/13/2006	0.029	0.000	0.001	0.011
8/14/2006	0.008	0.000	0.000	0.011
8/15/2006	0.008	0.000	0.000	0.011
8/16/2006	0.008	0.000	0.000	0.011
8/17/2006	0.008	0.000	0.000	0.011
8/18/2006	0.008	0.000	0.000	0.011
8/19/2006	0.008	0.000	0.000	0.011

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
8/20/2006	0.008	0.000	0.000	0.011
8/21/2006	0.007	0.000	0.000	0.011
8/22/2006	0.007	0.000	0.000	0.011
8/23/2006	0.007	0.000	0.000	0.011
8/24/2006	0.007	0.000	0.000	0.011
8/25/2006	0.007	0.000	0.000	0.011
8/26/2006	0.007	0.000	0.000	0.011
8/27/2006	0.007	0.000	0.000	0.011
8/28/2006	0.007	0.000	0.000	0.011
8/29/2006	0.007	0.000	0.000	0.011
8/30/2006	0.006	0.000	0.000	0.011
8/31/2006	0.006	0.000	0.000	0.011
9/1/2006	0.006	0.000	0.000	0.011
9/2/2006	0.006	0.000	0.000	0.011
9/3/2006	0.006	0.000	0.000	0.011
9/4/2006	0.006	0.000	0.000	0.011
9/5/2006	0.006	0.000	0.000	0.011
9/6/2006	0.006	0.000	0.000	0.011
9/7/2006	0.006	0.000	0.000	0.011
9/8/2006	0.005	0.000	0.000	0.011
9/9/2006	0.005	0.000	0.000	0.011
9/10/2006	0.005	0.000	0.000	0.011
9/11/2006	0.005	0.000	0.000	0.011
9/12/2006	0.005	0.000	0.000	0.011
9/13/2006	0.005	0.000	0.000	0.011
9/14/2006	0.005	0.002	0.000	0.011
9/15/2006	0.005	0.000	0.000	0.011
9/16/2006	0.005	0.000	0.000	0.011
9/17/2006	0.005	0.000	0.000	0.011
9/18/2006	0.004	0.000	0.000	0.011
9/19/2006	0.004	0.000	0.000	0.011
9/20/2006	0.004	0.000	0.000	0.011
9/21/2006	0.004	0.000	0.000	0.011
9/22/2006	0.004	0.000	0.000	0.011
9/23/2006	0.004	0.000	0.000	0.011
9/24/2006	0.004	0.000	0.000	0.011
9/25/2006	0.004	0.000	0.000	0.011
9/26/2006	0.004	0.000	0.000	0.011
9/27/2006	0.004	0.000	0.000	0.011
9/28/2006	0.004	0.000	0.000	0.011
9/29/2006	0.004	0.000	0.000	0.011
9/30/2006	0.004	0.000	0.000	0.011
10/1/2006	0.004	0.000	0.000	0.011
10/2/2006	0.005	0.000	0.000	0.011
10/3/2006	0.005	0.000	0.000	0.011
10/4/2006	0.027	0.629	0.363	0.273
10/5/2006	0.777	0.371	0.165	0.070
10/6/2006	0.619	0.123	0.246	0.000
10/7/2006	0.462	0.062	0.160	0.002

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
10/8/2006	0.346	0.020	0.106	0.025
10/9/2006	0.259	0.008	0.063	0.029
10/10/2006	0.195	0.002	0.037	0.031
10/11/2006	0.154	0.078	0.006	0.010
10/12/2006	0.705	-	-	-
10/13/2006	1.115	0.376	0.547	0.039
10/14/2006	0.929	0.195	0.538	0.000
10/15/2006	0.694	0.192	0.252	0.000
10/16/2006	0.519	0.136	0.146	0.002
10/17/2006	0.418	0.984	0.320	0.649
10/18/2006	1.140	-	-	-
10/19/2006	0.940	0.603	0.114	0.180
10/20/2006	0.717	0.458	0.067	0.078
10/21/2006	0.536	0.282	0.065	0.011
10/22/2006	0.408	0.807	0.159	0.395
10/23/2006	0.812	1.034	0.049	0.732
10/24/2006	0.861	0.912	0.003	0.538
10/25/2006	0.912	-	-	-
10/26/2006	0.764	0.665	0.010	0.236
10/27/2006	0.545	0.416	0.017	0.056
10/28/2006	0.752	-	-	-
10/29/2006	1.556	-	-	-
10/30/2006	1.223	0.634	0.347	0.207
10/31/2006	0.871	0.239	0.399	0.004
11/1/2006	0.621	0.172	0.201	0.000
11/2/2006	0.444	0.167	0.077	0.000
11/3/2006	0.318	0.144	0.030	0.001
11/4/2006	0.229	0.117	0.013	0.004
11/5/2006	0.166	0.099	0.004	0.006
11/6/2006	0.121	0.078	0.002	0.010
11/7/2006	0.089	0.082	0.000	0.009
11/8/2006	0.069	0.240	0.029	0.004
11/9/2006	0.056	0.204	0.022	0.001
11/10/2006	0.043	0.163	0.015	0.000
11/11/2006	0.156	0.929	0.597	0.563
11/12/2006	0.277	0.648	0.138	0.221
11/13/2006	0.200	0.358	0.025	0.032
11/14/2006	0.145	0.227	0.007	0.002
11/15/2006	0.106	0.165	0.003	0.000
11/16/2006	0.720	0.411	0.096	0.054
11/17/2006	1.530	-	-	-
11/18/2006	1.029	0.758	0.073	0.336
11/19/2006	0.737	0.463	0.075	0.081
11/20/2006	0.507	0.285	0.049	0.011

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
11/21/2006	0.350	0.180	0.029	0.005
11/22/2006	0.243	0.143	0.010	0.001
11/23/2006	0.170	0.129	0.002	0.000
11/24/2006	0.120	0.101	0.000	0.000
11/25/2006	0.086	0.082	0.000	0.001
11/26/2006	0.063	0.070	0.000	0.001
11/27/2006	0.047	0.063	0.000	0.002
11/28/2006	0.036	0.044	0.000	0.004
11/29/2006	0.029	0.036	0.000	0.005
11/30/2006	0.060	-	-	-
12/1/2006	0.887	-	-	-
12/2/2006	1.746	-	-	-
12/3/2006	1.221	0.461	0.578	0.125
12/4/2006	0.838	0.154	0.468	0.002
12/5/2006	0.577	0.077	0.250	0.001
12/6/2006	0.398	0.041	0.128	0.004
12/7/2006	0.276	0.111	0.027	0.000
12/8/2006	0.193	0.090	0.011	0.000
12/9/2006	0.136	0.028	0.012	0.006
12/10/2006	0.097	0.014	0.007	0.009
12/11/2006	0.071	-	-	-
12/12/2006	0.053	-	-	-
12/13/2006	0.778	-	-	-
12/14/2006	1.286	0.922	0.132	0.664
12/15/2006	0.966	0.274	0.479	0.028
12/16/2006	0.794	0.132	0.438	0.001
12/17/2006	0.544	0.064	0.231	0.002
12/18/2006	0.403	0.026	0.142	0.007
12/19/2006	0.270	0.000	0.073	0.011
12/20/2006	0.181	0.000	0.033	0.011
12/21/2006	0.122	0.000	0.015	0.011
12/22/2006	0.149	0.000	0.022	0.011
12/23/2006	0.314	0.003	0.096	0.011
12/24/2006	0.248	0.004	0.060	0.011
12/25/2006	0.169	0.002	0.028	0.011
12/26/2006	0.115	0.002	0.013	0.011
12/27/2006	0.242	0.000	0.059	0.011
12/28/2006	0.336	0.000	0.113	0.011
12/29/2006	0.433	0.000	0.187	0.011
12/30/2006	0.303	0.000	0.092	0.011
12/31/2006	0.202			
Average		0.107	20.583	11.23
Nash Sutcliffe	0.179			

Table AF.2: Daily Streamflow Comparison between Model Calculations and Observed Measurements for Eighteen Mile (@ Boyd Creek Confluence). "–"denotes streamflow over the rating curve limit of 2.8478 cms.

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
5/1/2006	0.773			
5/2/2006	0.712			
5/3/2006	0.674			
5/4/2006	0.63			
5/5/2006	0.549			
5/6/2006	0.471			
5/7/2006	0.389			
5/8/2006	0.347			
5/9/2006	0.414			
5/10/2006	0.471			
5/11/2006	0.825			
5/12/2006	0.927	0.192	0.54	0.133
5/13/2006	0.8	0.146	0.43	0.169
5/14/2006	0.775	0.137	0.41	0.177
5/15/2006	0.688	0.127	0.31	0.185
5/16/2006	0.669	0.135	0.29	0.178
5/17/2006	0.614	0.139	0.23	0.175
5/18/2006	1.158	0.157	1.00	0.160
5/19/2006	1.316	0.476	0.71	0.007
5/20/2006	0.977	0.463	0.26	0.009
5/21/2006	0.92	0.526	0.16	0.001
5/22/2006	0.734	0.437	0.09	0.014
5/23/2006	0.206	0.255	0.00	0.091
5/24/2006	0.208	0.178	0.00	0.144
5/25/2006	0.211	0.148	0.00	0.168
5/26/2006	0.213	0.153	0.00	0.163
5/27/2006	0.215	0.137	0.01	0.177
5/28/2006	0.216	0.121	0.01	0.190
5/29/2006	0.217	0.113	0.01	0.197
5/30/2006	0.218	0.107	0.01	0.203
5/31/2006	0.218	0.1	0.01	0.209
6/1/2006	0.218	0.102	0.01	0.207
6/2/2006	0.219	0.097	0.01	0.212
6/3/2006	0.219	0.091	0.02	0.217
6/4/2006	0.219	0.089	0.02	0.219
6/5/2006	0.22	0.081	0.02	0.227
6/6/2006	0.221	0.07	0.02	0.237
6/7/2006	0.221	0.063	0.02	0.244
6/8/2006	0.221	0.056	0.03	0.251
6/9/2006	0.22	0.055	0.03	0.252
6/10/2006	0.219	0.05	0.03	0.257
6/11/2006	0.218	0.045	0.03	0.262
6/12/2006	0.216	0.043	0.03	0.265
6/13/2006	0.215	0.037	0.03	0.271
6/14/2006	0.213	0.03	0.03	0.278
6/15/2006	0.21	0.023	0.03	0.285
6/16/2006	0.208	0.016	0.04	0.293
6/17/2006	0.205	0.014	0.04	0.295
6/18/2006	0.202	0.013	0.04	0.296
6/19/2006	0.199	0.038	0.03	0.270
6/20/2006	0.196	0.047	0.02	0.260
6/21/2006	0.193	0.026	0.03	0.282
6/22/2006	0.19	0.027	0.03	0.281
6/23/2006	0.187	0.025	0.03	0.283
6/24/2006	0.184	0.017	0.03	0.292
6/25/2006	0.18	0.014	0.03	0.295
6/26/2006	0.175	0.016	0.03	0.293
6/27/2006	0.169	0.018	0.02	0.291
6/28/2006	0.164	0.018	0.02	0.291
6/29/2006	0.159	0.018	0.02	0.291
6/30/2006	0.154	0.016	0.02	0.293
7/1/2006	0.149	0.011	0.02	0.298
7/2/2006	0.143	0.008	0.02	0.302
7/3/2006	0.137	0.002	0.02	0.308
7/4/2006	0.131	0.004	0.02	0.306
7/5/2006	0.124	0	0.02	0.311
7/6/2006	0.117	0	0.01	0.311
7/7/2006	0.11	0	0.01	0.311
7/8/2006	0.103	0	0.01	0.311
7/9/2006	0.096	0	0.01	0.311
7/10/2006	0.089	0.041	0.00	0.267
7/11/2006	0.084	0.074	0.00	0.234
7/12/2006	0.081	0.158	0.01	0.159
7/13/2006	0.078	0.14	0.00	0.174
7/14/2006	0.076	0.11	0.00	0.200
7/15/2006	0.074	0.082	0.00	0.226
7/16/2006	0.072	0.059	0.00	0.248
7/17/2006	0.07	0.046	0.00	0.261
7/18/2006	0.068	0.048	0.00	0.259
7/19/2006	0.067	0.035	0.00	0.273
7/20/2006	0.065	0.022	0.00	0.287
7/21/2006	0.063	0.018	0.00	0.291
7/22/2006	0.062	0.017	0.00	0.292
7/23/2006	0.061	0.003	0.00	0.307
7/24/2006	0.06	0	0.00	0.311
7/25/2006	0.059	0	0.00	0.311
7/26/2006	0.059	0	0.00	0.311
7/27/2006	0.058	0	0.00	0.311
7/28/2006	0.057	0.003	0.00	0.307
7/29/2006	0.057	0.003	0.00	0.307
7/30/2006	0.056	0	0.00	0.311
7/31/2006	0.056	0	0.00	0.311

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
8/1/2006	0.055	0	0.00	0.311
8/2/2006	0.055	0.03	0.00	0.278
8/3/2006	0.086	0.046	0.00	0.261
8/4/2006	0.134	0.03	0.01	0.278
8/5/2006	0.122	0.012	0.01	0.297
8/6/2006	0.108	0.006	0.01	0.304
8/7/2006	0.097	0.004	0.01	0.306
8/8/2006	0.088	0	0.01	0.311
8/9/2006	0.081	0	0.01	0.311
8/10/2006	0.075	0	0.01	0.311
8/11/2006	0.071	0	0.01	0.311
8/12/2006	0.067	0	0.00	0.311
8/13/2006	0.064	0	0.00	0.311
8/14/2006	0.061	0	0.00	0.311
8/15/2006	0.059	0	0.00	0.311
8/16/2006	0.057	0	0.00	0.311
8/17/2006	0.055	0	0.00	0.311
8/18/2006	0.054	0	0.00	0.311
8/19/2006	0.052	0	0.00	0.311
8/20/2006	0.051	0	0.00	0.311
8/21/2006	0.05	0	0.00	0.311
8/22/2006	0.049	0	0.00	0.311
8/23/2006	0.048	0	0.00	0.311
8/24/2006	0.048	0	0.00	0.311
8/25/2006	0.047	0	0.00	0.311
8/26/2006	0.046	0	0.00	0.311
8/27/2006	0.045	0.008	0.00	0.302
8/28/2006	0.044	0.014	0.00	0.295
8/29/2006	0.044	0.009	0.00	0.301
8/30/2006	0.043	0.002	0.00	0.308
8/31/2006	0.043	0	0.00	0.311
9/1/2006	0.042	0	0.00	0.311
9/2/2006	0.042	0	0.00	0.311
9/3/2006	0.041	0	0.00	0.311
9/4/2006	0.041	0	0.00	0.311
9/5/2006	0.041	0	0.00	0.311
9/6/2006	0.04	0	0.00	0.311
9/7/2006	0.04	0	0.00	0.311
9/8/2006	0.039	0	0.00	0.311
9/9/2006	0.039	0	0.00	0.311
9/10/2006	0.038	0	0.00	0.311
9/11/2006	0.038	0	0.00	0.311
9/12/2006	0.038	0.007	0.00	0.303
9/13/2006	0.037	0.031	0.00	0.277
9/14/2006	0.037	0.027	0.00	0.281
9/15/2006	0.036	0.024	0.00	0.284
9/16/2006	0.036	0.01	0.00	0.300
9/17/2006	0.035	0.001	0.00	0.309

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
9/18/2006	0.035	0.006	0.00	0.304
9/19/2006	0.035	0.01	0.00	0.300
9/20/2006	0.034	0.027	0.00	0.281
9/21/2006	0.034	0.026	0.00	0.282
9/22/2006	0.033	0.022	0.00	0.287
9/23/2006	0.033	0.026	0.00	0.282
9/24/2006	0.033	0.029	0.00	0.279
9/25/2006	0.032	0.03	0.00	0.278
9/26/2006	0.032	0.022	0.00	0.287
9/27/2006	0.031	0.013	0.00	0.296
9/28/2006	0.031	0.016	0.00	0.293
9/29/2006	0.031	0.013	0.00	0.296
9/30/2006	0.031	0.022	0.00	0.287
10/1/2006	0.03	0.026	0.00	0.282
10/2/2006	0.03	0.017	0.00	0.292
10/3/2006	0.03	0.023	0.00	0.285
10/4/2006	0.282	0.815	0.28	0.066
10/5/2006	0.571	0.681	0.01	0.015
10/6/2006	0.416	0.199	0.05	0.128
10/7/2006	0.308	0.108	0.04	0.202
10/8/2006	0.232	0.083	0.02	0.225
10/9/2006	0.177	0.071	0.01	0.236
10/10/2006	0.138	0.062	0.01	0.245
10/11/2006	0.261	0.081	0.03	0.227
10/12/2006	1.933	1.653	0.08	1.201
10/13/2006	2.323	0.976	1.81	0.175
10/14/2006	1.715	0.761	0.91	0.041
10/15/2006	1.218	0.78	0.19	0.050
10/16/2006	0.88	0.486	0.16	0.005
10/17/2006	1.48	1.459	0.00	0.813
10/18/2006	2.556	2.655	0.01	4.400
10/19/2006	1.827	1.713	0.01	1.336
10/20/2006	1.316	1.412	0.01	0.731
10/21/2006	0.954	1.124	0.03	0.321
10/22/2006	1.065	1.63	0.32	1.151
10/23/2006	2.065	2.361	0.09	3.253
10/24/2006	2.215	2.212	0.00	2.738
10/25/2006	2.152	-	-	-
10/26/2006	1.63	2.202	0.33	2.705
10/27/2006	1.183	1.614	0.19	1.117
10/28/2006	2.705	2.682	0.00	4.514
10/29/2006	3.876	-	-	-
10/30/2006	2.786	2.123	0.44	2.451
10/31/2006	2.005	1.412	0.35	0.731
11/1/2006	1.463	1.111	0.12	0.307
11/2/2006	1.082	0.962	0.01	0.164
11/3/2006	0.812	0.843	0.00	0.082
11/4/2006	0.618	0.688	0.00	0.017

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
11/5/2006	0.477	0.549	0.01	0.000
11/6/2006	0.373	0.44	0.00	0.014
11/7/2006	0.296	0.466	0.03	0.008
11/8/2006	0.234	1.253	1.04	0.484
11/9/2006	0.189	1.293	1.22	0.541
11/10/2006	0.157	1.042	0.78	0.235
11/11/2006	0.443	1.829	1.92	1.617
11/12/2006	0.366	1.786	2.02	1.510
11/13/2006	0.257	1.396	1.30	0.703
11/14/2006	0.189	1.177	0.98	0.384
11/15/2006	0.147	0.956	0.65	0.159
11/16/2006	3.051	1.303	3.06	0.556
11/17/2006	3.234	2.566	0.45	4.035
11/18/2006	2.206	2.222	0.00	2.771
11/19/2006	1.534	1.7	0.03	1.306
11/20/2006	1.087	1.386	0.09	0.687
11/21/2006	0.786	1.081	0.09	0.274
11/22/2006	0.58	0.886	0.09	0.108
11/23/2006	0.438	0.777	0.11	0.048
11/24/2006	0.338	0.648	0.10	0.008
11/25/2006	0.267	0.522	0.07	0.001
11/26/2006	0.216	0.499	0.08	0.003
11/27/2006	0.18	0.47	0.08	0.008
11/28/2006	0.153	0.38	0.05	0.031
11/29/2006	0.134	0.357	0.05	0.040
11/30/2006	0.556	1.544	0.98	0.974
12/1/2006	3.203	-	-	-
12/2/2006	4.331	-	-	-
12/3/2006	2.825	2.736	0.01	4.747
12/4/2006	1.884	2.116	0.05	2.430
12/5/2006	1.286	1.726	0.19	1.366
12/6/2006	0.899	1.571	0.45	1.028
12/7/2006	0.645	1.763	1.25	1.454
12/8/2006	0.474	1.723	1.56	1.359
12/9/2006	0.359	1.412	1.11	0.731
12/10/2006	0.279	1.339	1.12	0.611
12/11/2006	0.224	-	-	-
12/12/2006	0.293	-	-	-
12/13/2006	2.705	-	-	-
12/14/2006	3.077	-	-	-
12/15/2006	2.554	2.708	0.02	4.626
12/16/2006	2.134	2.14	0.00	2.505
12/17/2006	1.565	1.749	0.03	1.420
12/18/2006	1.325	1.521	0.04	0.929
12/19/2006	0.925	1.267	0.12	0.504
12/20/2006	0.658	1.078	0.18	0.271
12/21/2006	0.482	0.985	0.25	0.183
12/22/2006	0.707	0.969	0.07	0.169
12/23/2006	1.076	1.3	0.05	0.552
12/24/2006	0.781	1.376	0.35	0.670
12/25/2006	0.552	1.396	0.71	0.703
12/26/2006	0.397	1.296	0.81	0.546
12/27/2006	1.002	1.062	0.00	0.255
12/28/2006	1.099	0.962	0.02	0.164
12/29/2006	1.285	0.956	0.11	0.159
12/30/2006	0.862			
12/31/2006				
Average		0.5573	34.88	112.24
Nash Sutcliffe	0.669			

Table AF.3: Daily Streamflow Comparison between Model Calculations and Observed Measurements for Gully Creek. "–"denotes streamflow over the rating curve limit of various seasonal streamflows.

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
4/1/2006	1.188			
4/2/2006	0.244			
4/3/2006	0.237	0.236	0.000	0.029
4/4/2006	0.275			
4/5/2006	0.167	0.231	0.004	0.028
4/6/2006	0.137	0.218	0.007	0.023
4/7/2006	0.315	0.211	0.011	0.021
4/8/2006	0.242			
4/9/2006	0.146	0.228	0.007	0.026
4/10/2006	0.149	0.199	0.003	0.018
4/11/2006	0.145	0.177	0.001	0.013
4/12/2006	0.258	0.185	0.005	0.014
4/13/2006	0.254	0.228	0.001	0.026
4/14/2006	0.165	0.213	0.002	0.022
4/15/2006	0.152	0.175	0.001	0.012
4/16/2006	0.148	0.159	0.000	0.009
4/17/2006	0.145	0.144	0.000	0.006
4/18/2006	0.143	0.130	0.000	0.004
4/19/2006	0.14	0.114	0.001	0.002
4/20/2006	0.137	0.105	0.001	0.002
4/21/2006	0.134	0.095	0.002	0.001
4/22/2006	0.132	0.104	0.001	0.002
4/23/2006	0.178	0.193	0.000	0.017
4/24/2006	0.134	0.202	0.005	0.019
4/25/2006	0.123	0.171	0.002	0.011
4/26/2006	0.119	0.157	0.001	0.008
4/27/2006	0.116	0.127	0.000	0.004
4/28/2006	0.113	0.107	0.000	0.002
4/29/2006	0.109	0.092	0.000	0.001
4/30/2006	0.106	0.077	0.001	0.000
5/1/2006	0.103	0.067	0.001	0.000
5/2/2006	0.099	0.064	0.001	0.000
5/3/2006	0.096	0.058	0.001	0.000
5/4/2006	0.092	0.061	0.001	0.000
5/5/2006	0.088	0.055	0.001	0.000
5/6/2006	0.085	0.061	0.001	0.000
5/7/2006	0.081	0.061	0.000	0.000
5/8/2006	0.077	0.045	0.001	0.000
5/9/2006	0.073	0.040	0.001	0.001
5/10/2006	0.07	0.044	0.001	0.000
5/11/2006	0.066	0.088	0.001	0.001
5/12/2006	0.062	0.071	0.000	0.000
5/13/2006	0.058	0.063	0.000	0.000
5/14/2006	0.054	0.057	0.000	0.000
5/15/2006	0.05	0.047	0.000	0.000
5/16/2006	0.048	0.063	0.000	0.000
5/17/2006	0.047	0.066	0.000	0.000
5/18/2006	0.047	0.163	0.013	0.010
5/19/2006	0.047	0.157	0.012	0.008
5/20/2006	0.069	0.137	0.005	0.005
5/21/2006	0.092	0.132	0.002	0.005
5/22/2006	0.058	0.107	0.002	0.002
5/23/2006	0.044	0.085	0.002	0.000
5/24/2006	0.041	0.072	0.001	0.000
5/25/2006	0.039	0.062	0.001	0.000
5/26/2006	0.039	0.063	0.001	0.000
5/27/2006	0.038	0.049	0.000	0.000
5/28/2006	0.037	0.040	0.000	0.001
5/29/2006	0.036	0.034	0.000	0.001
5/30/2006	0.035	0.035	0.000	0.001
5/31/2006	0.035	0.056	0.000	0.000
6/1/2006	0.034	0.047	0.000	0.000
6/2/2006	0.033	0.039	0.000	0.001
6/3/2006	0.032	0.034	0.000	0.001
6/4/2006	0.072	0.033	0.002	0.001
6/5/2006	0.044	0.019	0.001	0.002
6/6/2006	0.033	0.018	0.000	0.002
6/7/2006	0.03	0.012	0.000	0.003
6/8/2006	0.029	0.006	0.001	0.003
6/9/2006	0.028	0.006	0.000	0.003
6/10/2006	0.027	0.007	0.000	0.003
6/11/2006	0.027	0.003	0.001	0.004
6/12/2006	0.026	0.002	0.001	0.004
6/13/2006	0.026	0.001	0.001	0.004
6/14/2006	0.025	0.001	0.001	0.004
6/15/2006	0.024	0.001	0.001	0.004
6/16/2006	0.024	0.005	0.000	0.004
6/17/2006	0.023	0.007	0.000	0.003
6/18/2006	0.023	0.013	0.000	0.003
6/19/2006	0.023	0.026	0.000	0.002
6/20/2006	0.022	0.021	0.000	0.002
6/21/2006	0.022	0.032	0.000	0.001
6/22/2006	0.022	0.002	0.000	0.004
6/23/2006	0.021	0.002	0.000	0.004
6/24/2006	0.021	0.002	0.000	0.004
6/25/2006	0.021	0.002	0.000	0.004
6/26/2006	0.021	0.002	0.000	0.004
6/27/2006	0.02	0.002	0.000	0.004
6/28/2006	0.02	0.002	0.000	0.004
6/29/2006	0.02	0.002	0.000	0.004
6/30/2006	0.02	0.002	0.000	0.004
7/1/2006	0.019	0.002	0.000	0.004

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
7/2/2006	0.019	0.002	0.000	0.004
7/3/2006	0.019	0.002	0.000	0.004
7/4/2006	0.019	0.002	0.000	0.004
7/5/2006	0.019	0.002	0.000	0.004
7/6/2006	0.018	0.002	0.000	0.004
7/7/2006	0.018	0.002	0.000	0.004
7/8/2006	0.018	0.002	0.000	0.004
7/9/2006	0.018	0.002	0.000	0.004
7/10/2006	0.018	0.002	0.000	0.004
7/11/2006	0.017	0.002	0.000	0.004
7/12/2006	0.017	0.002	0.000	0.004
7/13/2006	0.017	0.002	0.000	0.004
7/14/2006	0.017	0.002	0.000	0.004
7/15/2006	0.017	0.002	0.000	0.004
7/16/2006	0.017	0.002	0.000	0.004
7/17/2006	0.016	0.002	0.000	0.004
7/18/2006	0.016	0.002	0.000	0.004
7/19/2006	0.016	0.002	0.000	0.004
7/20/2006	0.016	0.002	0.000	0.004
7/21/2006	0.016	0.002	0.000	0.004
7/22/2006	0.016	0.002	0.000	0.004
7/23/2006	0.016	0.002	0.000	0.004
7/24/2006	0.016	0.002	0.000	0.004
7/25/2006	0.015	0.002	0.000	0.004
7/26/2006	0.016	0.002	0.000	0.004
7/27/2006	0.039	0.002	0.001	0.004
7/28/2006	0.022	0.002	0.000	0.004
7/29/2006	0.017	0.002	0.000	0.004
7/30/2006	0.015	0.002	0.000	0.004
7/31/2006	0.015	0.002	0.000	0.004
8/1/2006	0.015	0.002	0.000	0.004
8/2/2006	0.015	0.002	0.000	0.004
8/3/2006	0.052	0.002	0.002	0.004
8/4/2006	0.141	0.002	0.019	0.004
8/5/2006	0.045	0.002	0.002	0.004
8/6/2006	0.022	0.002	0.000	0.004
8/7/2006	0.016	0.002	0.000	0.004
8/8/2006	0.015	0.002	0.000	0.004
8/9/2006	0.014	0.002	0.000	0.004
8/10/2006	0.014	0.002	0.000	0.004
8/11/2006	0.014	0.002	0.000	0.004
8/12/2006	0.014	0.002	0.000	0.004
8/13/2006	0.014	0.002	0.000	0.004
8/14/2006	0.014	0.002	0.000	0.004
8/15/2006	0.014	0.002	0.000	0.004
8/16/2006	0.014	0.002	0.000	0.004
8/17/2006	0.014	0.002	0.000	0.004
8/18/2006	0.014	0.002	0.000	0.004
8/19/2006	0.014	0.002	0.000	0.004

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
8/20/2006	0.014	0.002	0.000	0.004
8/21/2006	0.014	0.002	0.000	0.004
8/22/2006	0.014	0.002	0.000	0.004
8/23/2006	0.013	0.002	0.000	0.004
8/24/2006	0.013	0.002	0.000	0.004
8/25/2006	0.013	0.002	0.000	0.004
8/26/2006	0.013	0.002	0.000	0.004
8/27/2006	0.013	0.002	0.000	0.004
8/28/2006	0.013	0.002	0.000	0.004
8/29/2006	0.013	0.002	0.000	0.004
8/30/2006	0.013	0.002	0.000	0.004
8/31/2006	0.013	0.002	0.000	0.004
9/1/2006	0.013	0.002	0.000	0.004
9/2/2006	0.013	0.002	0.000	0.004
9/3/2006	0.013	0.002	0.000	0.004
9/4/2006	0.013	0.002	0.000	0.004
9/5/2006	0.013	0.002	0.000	0.004
9/6/2006	0.013	0.002	0.000	0.004
9/7/2006	0.013	0.002	0.000	0.004
9/8/2006	0.013	0.002	0.000	0.004
9/9/2006	0.013	0.002	0.000	0.004
9/10/2006	0.013	0.002	0.000	0.004
9/11/2006	0.013	0.002	0.000	0.004
9/12/2006	0.013	0.002	0.000	0.004
9/13/2006	0.013	0.002	0.000	0.004
9/14/2006	0.013	0.002	0.000	0.004
9/15/2006	0.013	0.002	0.000	0.004
9/16/2006	0.013	0.002	0.000	0.004
9/17/2006	0.016	0.002	0.000	0.004
9/18/2006	0.017	0.002	0.000	0.004
9/19/2006	0.019	0.002	0.000	0.004
9/20/2006	0.021	0.002	0.000	0.004
9/21/2006	0.023	0.002	0.000	0.004
9/22/2006	0.025	0.000	0.001	0.004
9/23/2006	0.027	0.013	0.000	0.003
9/24/2006	0.03	0.005	0.001	0.004
9/25/2006	0.032	0.014	0.000	0.003
9/26/2006	0.034	0.013	0.000	0.003
9/27/2006	0.036	0.006	0.001	0.003
9/28/2006	0.038	0.015	0.001	0.002
9/29/2006	0.04	0.001	0.001	0.004
9/30/2006	0.042	0.002	0.002	0.004
10/1/2006	0.045	0.006	0.002	0.004
10/2/2006	0.047	0.001	0.002	0.004
10/3/2006	0.049	0.002	0.002	0.004
10/4/2006	0.088	0.175	0.008	0.012
10/5/2006	0.077	0.117	0.002	0.003
10/6/2006	0.062	0.040	0.000	0.001
10/7/2006	0.06	0.012	0.002	0.003

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
10/8/2006	0.061	0.001	0.004	0.004
10/9/2006	0.063	0.000	0.004	0.004
10/10/2006	0.066	0.000	0.004	0.004
10/11/2006	0.071	0.070	0.000	0.000
10/12/2006	0.213	0.262	0.002	0.039
10/13/2006	0.418	0.180	0.056	0.013
10/14/2006	0.193	0.112	0.007	0.002
10/15/2006	0.109	0.065	0.002	0.000
10/16/2006	0.088	0.038	0.002	0.001
10/17/2006	0.694	0.084	0.372	0.000
10/18/2006	1.051	0.261	0.624	0.039
10/19/2006	0.458	0.225	0.054	0.026
10/20/2006	0.288	0.227	0.004	0.026
10/21/2006	0.142	0.174	0.001	0.012
10/22/2006	0.427	0.180	0.061	0.013
10/23/2006	0.956	-	-	-
10/24/2006	0.743	-	-	-
10/25/2006	0.418	0.316	0.010	0.063
10/26/2006	0.194	0.244	0.002	0.032
10/27/2006	0.124	0.208	0.007	0.021
10/28/2006	1.191	0.265	0.857	0.040
10/29/2006	1.123	-	-	-
10/30/2006	0.386	0.244	0.020	0.032
10/31/2006	0.18	0.191	0.000	0.016
11/1/2006	0.127	0.167	0.002	0.011
11/2/2006	0.113	0.169	0.003	0.011
11/3/2006	0.111	0.156	0.002	0.008
11/4/2006	0.111	0.127	0.000	0.004
11/5/2006	0.113	0.086	0.001	0.000
11/6/2006	0.114	0.060	0.003	0.000
11/7/2006	0.119	0.094	0.001	0.001
11/8/2006	0.139	0.216	0.006	0.023
11/9/2006	0.124	0.159	0.001	0.009
11/10/2006	0.122	0.133	0.000	0.005
11/11/2006	0.242	0.199	0.002	0.018
11/12/2006	0.188	0.200	0.000	0.018
11/13/2006	0.14	0.174	0.001	0.012
11/14/2006	0.792	0.157	0.404	0.008
11/15/2006	0.347	0.126	0.049	0.004
11/16/2006	1.279	0.158	1.257	0.009
11/17/2006	0.66	-	-	-
11/18/2006	0.252	0.306	0.003	0.058
11/19/2006	0.161	0.253	0.008	0.035
11/20/2006	0.14	0.211	0.005	0.021
11/21/2006	0.136	0.177	0.002	0.013
11/22/2006	0.136	0.130	0.000	0.004
11/23/2006	0.136	0.115	0.000	0.003
11/24/2006	0.137	0.103	0.001	0.001
11/25/2006	0.137	0.089	0.002	0.001
11/26/2006	0.138	0.073	0.004	0.000
11/27/2006	0.139	0.070	0.005	0.000
11/28/2006	0.14	0.052	0.008	0.000
11/29/2006	0.14	0.057	0.007	0.000
11/30/2006	0.141	0.100	0.002	0.001
12/1/2006	1.261	-	-	-
12/2/2006	1.078	-	-	-
12/3/2006	0.316	-	-	-
12/4/2006	0.177	0.296	0.014	0.053
12/5/2006	0.151	0.270	0.014	0.042
12/6/2006	0.146	0.262	0.014	0.039
12/7/2006	0.146	0.288	0.020	0.050
12/8/2006	0.146	-		
12/9/2006	0.147	0.273	0.016	0.044
12/10/2006	0.147	0.230	0.007	0.027
12/11/2006	0.149	0.288	0.019	0.050
12/12/2006	0.25	-	-	-
12/13/2006	1.211	0.232	0.958	0.028
12/14/2006	0.649	0.034	0.378	0.001
12/15/2006	0.488	0.000	0.238	0.004
12/16/2006	0.436	0.000	0.190	0.004
12/17/2006	0.298	0.000	0.089	0.004
12/18/2006	0.312	0.000	0.097	0.004
12/19/2006	0.18	0.000	0.032	0.004
12/20/2006	0.155	0.000	0.024	0.004
12/21/2006	0.151	0.000	0.023	0.004
12/22/2006	0.177	0.000	0.031	0.004
12/23/2006	0.316	0.000	0.100	0.004
12/24/2006	0.21	0.000	0.044	0.004
12/25/2006	0.161	0.000	0.026	0.004
12/26/2006	0.553	0.000	0.306	0.004
12/27/2006	0.526	0.000	0.277	0.004
12/28/2006	0.214	0.000	0.046	0.004
12/29/2006	0.164	0.000	0.027	0.004
12/30/2006	0.156	0.000	0.024	0.004
12/31/2006	0.17	-	-	-
Average		0.065	7.067	1.896
Nash Sutcliffe	-2.7264			

Table AF.3: Daily Streamflow Comparison between Model Calculations and Observed Measurements for Zurich Drain. "–"denotes streamflow over the rating curve limit of 0.899 cms.

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
4/1/2006	1.604			
4/2/2006	0.508			
4/3/2006	0.322	0.451	0.017	0.092
4/4/2006	0.286	0.524	0.057	0.142
4/5/2006	0.213	0.441	0.052	0.086
4/6/2006	0.189	0.449	0.067	0.091
4/7/2006	0.321	0.344	0.001	0.039
4/8/2006	0.28	0.561	0.079	0.171
4/9/2006	0.209	0.329	0.014	0.033
4/10/2006	0.193	0.172	0.000	0.001
4/11/2006	0.191	0.137	0.003	0.000
4/12/2006	0.466	0.220	0.060	0.005
4/13/2006	0.595	0.525	0.005	0.142
4/14/2006	0.361	0.288	0.005	0.020
4/15/2006	0.262	0.135	0.016	0.000
4/16/2006	0.225	0.166	0.003	0.000
4/17/2006	0.211	0.184	0.001	0.001
4/18/2006	0.203	0.168	0.001	0.000
4/19/2006	0.198	0.170	0.001	0.001
4/20/2006	0.193	0.173	0.000	0.001
4/21/2006	0.188	0.165	0.001	0.000
4/22/2006	0.21	0.168	0.002	0.000
4/23/2006	0.486	0.217	0.072	0.005
4/24/2006	0.269	0.151	0.014	0.000
4/25/2006	0.199	0.186	0.000	0.001
4/26/2006	0.174	0.177	0.000	0.001
4/27/2006	0.161	0.181	0.000	0.001
4/28/2006	0.153	0.177	0.001	0.001
4/29/2006	0.146	0.129	0.000	0.000
4/30/2006	0.14	0.108	0.001	0.002
5/1/2006	0.134	0.098	0.001	0.002
5/2/2006	0.128	0.091	0.001	0.003
5/3/2006	0.122	0.087	0.001	0.004
5/4/2006	0.116	0.086	0.001	0.004
5/5/2006	0.111	0.072	0.002	0.006
5/6/2006	0.105	0.068	0.001	0.006
5/7/2006	0.099	0.065	0.001	0.007
5/8/2006	0.093	0.054	0.002	0.009
5/9/2006	0.087	0.050	0.001	0.009
5/10/2006	0.081	0.052	0.001	0.009
5/11/2006	0.142	0.098	0.002	0.002
5/12/2006	0.11	0.083	0.001	0.004
5/13/2006	0.078	0.067	0.000	0.007
5/14/2006	0.063	0.048	0.000	0.010
5/15/2006	0.054	0.042	0.000	0.011
5/16/2006	0.078	0.066	0.000	0.007
5/17/2006	0.071	0.074	0.000	0.005
5/18/2006	0.141	0.151	0.000	0.000
5/19/2006	0.101	0.186	0.007	0.001
5/20/2006	0.105	0.177	0.005	0.001
5/21/2006	0.262	0.183	0.006	0.001
5/22/2006	0.133	0.143	0.000	0.000
5/23/2006	0.077	0.116	0.001	0.001
5/24/2006	0.055	0.103	0.002	0.002
5/25/2006	0.044	0.099	0.003	0.002
5/26/2006	0.051	0.095	0.002	0.003
5/27/2006	0.044	0.075	0.001	0.005
5/28/2006	0.038	0.062	0.001	0.007
5/29/2006	0.035	0.055	0.000	0.009
5/30/2006	0.033	0.049	0.000	0.010
5/31/2006	0.032	0.038	0.000	0.012
6/1/2006	0.031	0.034	0.000	0.013
6/2/2006	0.03	0.029	0.000	0.014
6/3/2006	0.043	0.024	0.000	0.015
6/4/2006	0.294	0.026	0.072	0.015
6/5/2006	0.133	0.011	0.015	0.019
6/6/2006	0.071	0.003	0.005	0.021
6/7/2006	0.046	0.000	0.002	0.022
6/8/2006	0.035	0.000	0.001	0.022
6/9/2006	0.029	0.000	0.001	0.022
6/10/2006	0.026	0.000	0.001	0.022
6/11/2006	0.025	0.000	0.001	0.022
6/12/2006	0.023	0.000	0.001	0.022
6/13/2006	0.023	0.000	0.001	0.022
6/14/2006	0.022	0.000	0.000	0.022
6/15/2006	0.021	0.000	0.000	0.022
6/16/2006	0.021	0.000	0.000	0.022
6/17/2006	0.02	0.000	0.000	0.022
6/18/2006	0.021	0.000	0.000	0.022
6/19/2006	0.039	0.000	0.002	0.022
6/20/2006	0.028	0.022	0.000	0.016
6/21/2006	0.024	0.000	0.001	0.022
6/22/2006	0.027	0.000	0.001	0.022
6/23/2006	0.023	0.000	0.001	0.022
6/24/2006	0.021	0.000	0.000	0.022
6/25/2006	0.021	0.000	0.000	0.022
6/26/2006	0.02	0.000	0.000	0.022
6/27/2006	0.033	0.000	0.001	0.022
6/28/2006	0.03	0.000	0.001	0.022
6/29/2006	0.063	0.000	0.004	0.022
6/30/2006	0.05	0.000	0.003	0.022
7/1/2006	0.033	0.000	0.001	0.022

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
7/2/2006	0.026	0.000	0.001	0.022
7/3/2006	0.022	0.000	0.000	0.022
7/4/2006	0.021	0.000	0.000	0.022
7/5/2006	0.02	0.000	0.000	0.022
7/6/2006	0.02	0.000	0.000	0.022
7/7/2006	0.02	0.000	0.000	0.022
7/8/2006	0.019	0.000	0.000	0.022
7/9/2006	0.019	0.000	0.000	0.022
7/10/2006	0.1	0.046	0.003	0.010
7/11/2006	0.067	0.032	0.001	0.013
7/12/2006	0.096	0.033	0.004	0.013
7/13/2006	0.067	0.014	0.003	0.018
7/14/2006	0.042	0.000	0.002	0.022
7/15/2006	0.03	0.000	0.001	0.022
7/16/2006	0.025	0.000	0.001	0.022
7/17/2006	0.022	0.000	0.000	0.022
7/18/2006	0.023	0.000	0.001	0.022
7/19/2006	0.021	0.000	0.000	0.022
7/20/2006	0.02	0.000	0.000	0.022
7/21/2006	0.02	0.000	0.000	0.022
7/22/2006	0.019	0.000	0.000	0.022
7/23/2006	0.019	0.000	0.000	0.022
7/24/2006	0.019	0.000	0.000	0.022
7/25/2006	0.019	0.000	0.000	0.022
7/26/2006	0.062	0.010	0.003	0.019
7/27/2006	0.218	0.163	0.003	0.000
7/28/2006	0.134	0.293	0.025	0.021
7/29/2006	0.082	0.160	0.006	0.000
7/30/2006	0.05	0.086	0.001	0.004
7/31/2006	0.034	0.070	0.001	0.006
8/1/2006	0.027	0.051	0.001	0.009
8/2/2006	0.047	0.036	0.000	0.013
8/3/2006	0.636	0.368	0.072	0.048
8/4/2006	0.822	0.378	0.198	0.053
8/5/2006	0.346	0.174	0.030	0.001
8/6/2006	0.169	0.109	0.004	0.001
8/7/2006	0.091	0.071	0.000	0.006
8/8/2006	0.055	0.033	0.000	0.013
8/9/2006	0.037	0.017	0.000	0.017
8/10/2006	0.029	0.009	0.000	0.019
8/11/2006	0.024	0.000	0.001	0.022
8/12/2006	0.022	0.000	0.000	0.022
8/13/2006	0.021	0.000	0.000	0.022
8/14/2006	0.043	0.000	0.002	0.022
8/15/2006	0.052	0.000	0.003	0.022
8/16/2006	0.034	0.000	0.001	0.022
8/17/2006	0.027	0.000	0.001	0.022
8/18/2006	0.023	0.000	0.001	0.022
8/19/2006	0.023	0.000	0.001	0.022
8/20/2006	0.051	0.000	0.003	0.022
8/21/2006	0.034	0.000	0.001	0.022
8/22/2006	0.026	0.000	0.001	0.022
8/23/2006	0.023	0.000	0.001	0.022
8/24/2006	0.021	0.000	0.000	0.022
8/25/2006	0.043	0.000	0.002	0.022
8/26/2006	0.038	0.000	0.001	0.022
8/27/2006	0.073	0.006	0.005	0.020
8/28/2006	0.046	0.003	0.002	0.021
8/29/2006	0.032	0.000	0.001	0.022
8/30/2006	0.026	0.000	0.001	0.022
8/31/2006	0.023	0.000	0.001	0.022
9/1/2006	0.021	0.000	0.000	0.022
9/2/2006	0.03	0.000	0.001	0.022
9/3/2006	0.067	0.000	0.004	0.022
9/4/2006	0.041	0.000	0.002	0.022
9/5/2006	0.03	0.000	0.001	0.022
9/6/2006	0.024	0.000	0.001	0.022
9/7/2006	0.022	0.000	0.000	0.022
9/8/2006	0.028	0.000	0.001	0.022
9/9/2006	0.03	0.000	0.001	0.022
9/10/2006	0.026	0.000	0.001	0.022
9/11/2006	0.022	0.000	0.000	0.022
9/12/2006	0.023	0.000	0.001	0.022
9/13/2006	0.041	0.000	0.002	0.022
9/14/2006	0.031	0.017	0.000	0.017
9/15/2006	0.025	0.034	0.000	0.013
9/16/2006	0.023	0.024	0.000	0.015
9/17/2006	0.023	0.018	0.000	0.017
9/18/2006	0.061	0.023	0.001	0.016
9/19/2006	0.105	0.065	0.002	0.007
9/20/2006	0.073	0.053	0.000	0.009
9/21/2006	0.058	0.037	0.000	0.012
9/22/2006	0.044	0.017	0.001	0.017
9/23/2006	0.1	0.070	0.001	0.006
9/24/2006	0.105	0.082	0.001	0.004
9/25/2006	0.078	0.079	0.000	0.005
9/26/2006	0.072	0.061	0.000	0.007
9/27/2006	0.058	0.046	0.000	0.010
9/28/2006	0.061	0.029	0.001	0.014
9/29/2006	0.07	0.031	0.002	0.014
9/30/2006	0.077	0.042	0.001	0.011
10/1/2006	0.088	0.044	0.002	0.011
10/2/2006	0.068	0.038	0.001	0.012
10/3/2006	0.08	0.051	0.001	0.009
10/4/2006	0.254	0.204	0.002	0.003
10/5/2006	0.189	0.201	0.000	0.003
10/6/2006	0.118	0.143	0.001	0.000
10/7/2006	0.089	0.106	0.000	0.002

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
10/8/2006	0.075	0.089	0.000	0.003
10/9/2006	0.091	0.077	0.000	0.005
10/10/2006	0.086	0.070	0.000	0.006
10/11/2006	0.242	0.152	0.008	0.000
10/12/2006	1.206	0.599	0.368	0.204
10/13/2006	1.135	0.327	0.653	0.032
10/14/2006	0.532	0.167	0.133	0.000
10/15/2006	0.293	0.193	0.010	0.002
10/16/2006	0.188	0.162	0.001	0.000
10/17/2006	1.331	0.235	1.200	0.008
10/18/2006	1.163	0.589	0.330	0.194
10/19/2006	0.794	0.511	0.080	0.132
10/20/2006	0.488	0.492	0.000	0.119
10/21/2006	0.292	0.265	0.001	0.014
10/22/2006	0.884	0.267	0.380	0.014
10/23/2006	1.321	-	-	-
10/24/2006	1.056	0.736	0.103	0.346
10/25/2006	0.68	-	-	-
10/26/2006	0.395	0.592	0.039	0.198
10/27/2006	0.309	0.396	0.008	0.062
10/28/2006	2.218	0.534	2.836	0.149
10/29/2006	1.506	0.765	0.549	0.381
10/30/2006	0.754	0.531	0.050	0.147
10/31/2006	0.452	0.330	0.015	0.033
11/1/2006	0.317	0.237	0.006	0.008
11/2/2006	0.255	0.217	0.001	0.005
11/3/2006	0.226	0.169	0.003	0.000
11/4/2006	0.213	0.119	0.009	0.001
11/5/2006	0.21	0.153	0.003	0.000
11/6/2006	0.211	0.198	0.000	0.003
11/7/2006	0.266	0.204	0.004	0.003
11/8/2006	0.315	0.449	0.018	0.091
11/9/2006	0.266	0.299	0.001	0.023
11/10/2006	0.251	0.189	0.004	0.002
11/11/2006	0.399	0.248	0.023	0.010
11/12/2006	0.326	0.264	0.004	0.014
11/13/2006	0.336	0.206	0.017	0.003
11/14/2006	1.174	0.167	1.015	0.000
11/15/2006	0.604	0.175	0.184	0.001
11/16/2006	2.122	0.309	3.287	0.026
11/17/2006	1.079	-	-	-
11/18/2006	0.609	0.740	0.017	0.351
11/19/2006	0.422	0.574	0.023	0.182
11/20/2006	0.34	0.415	0.006	0.071

Time	Daily Streamflow (cms)		Nash-Sutcliffe	
	Model	Determined	Top	Bottom
11/21/2006	0.302	0.334	0.001	0.035
11/22/2006	0.284	0.220	0.004	0.005
11/23/2006	0.274	0.213	0.004	0.004
11/24/2006	0.269	0.174	0.009	0.001
11/25/2006	0.267	0.164	0.011	0.000
11/26/2006	0.265	0.123	0.020	0.001
11/27/2006	0.264	0.087	0.031	0.004
11/28/2006	0.263	0.167	0.009	0.000
11/29/2006	0.266	0.202	0.004	0.003
11/30/2006	0.32	0.291	0.001	0.020
12/1/2006	1.954	0.686	1.608	0.290
12/2/2006	1.407			
12/3/2006	0.682	0.651	0.001	0.254
12/4/2006	0.433	0.468	0.001	0.103
12/5/2006	0.333	0.326	0.000	0.032
12/6/2006	0.291	0.260	0.001	0.013
12/7/2006	0.272	0.231	0.002	0.007
12/8/2006	0.263	0.237	0.001	0.008
12/9/2006	0.258	0.236	0.001	0.008
12/10/2006	0.256	0.174	0.007	0.001
12/11/2006	0.275	0.354	0.006	0.043
12/12/2006	0.594	0.694	0.010	0.298
12/13/2006	1.849	-	-	-
12/14/2006	1.03	-	-	-
12/15/2006	0.794	0.728	0.004	0.336
12/16/2006	0.626	0.562	0.004	0.172
12/17/2006	0.446	0.418	0.001	0.073
12/18/2006	0.39	0.336	0.003	0.035
12/19/2006	0.302	0.263	0.002	0.013
12/20/2006	0.269	0.222	0.002	0.006
12/21/2006	0.256	0.162	0.009	0.000
12/22/2006	0.386	0.190	0.038	0.002
12/23/2006	0.503	0.645	0.020	0.248
12/24/2006	0.359	0.583	0.050	0.190
12/25/2006	0.287	0.423	0.018	0.076
12/26/2006	0.992	0.349	0.414	0.040
12/27/2006	0.749	0.301	0.200	0.024
12/28/2006	0.424	0.247	0.031	0.010
12/29/2006	0.318	0.238	0.006	0.008
12/30/2006	0.279	0.234	0.002	0.007
12/31/2006	0.497	-	-	-
Average		0.148	14.985	8.536
Nash Sutcliffe	-0.75545			

APPENDIX G

Lake Huron Shoreline

Subwatershed Results

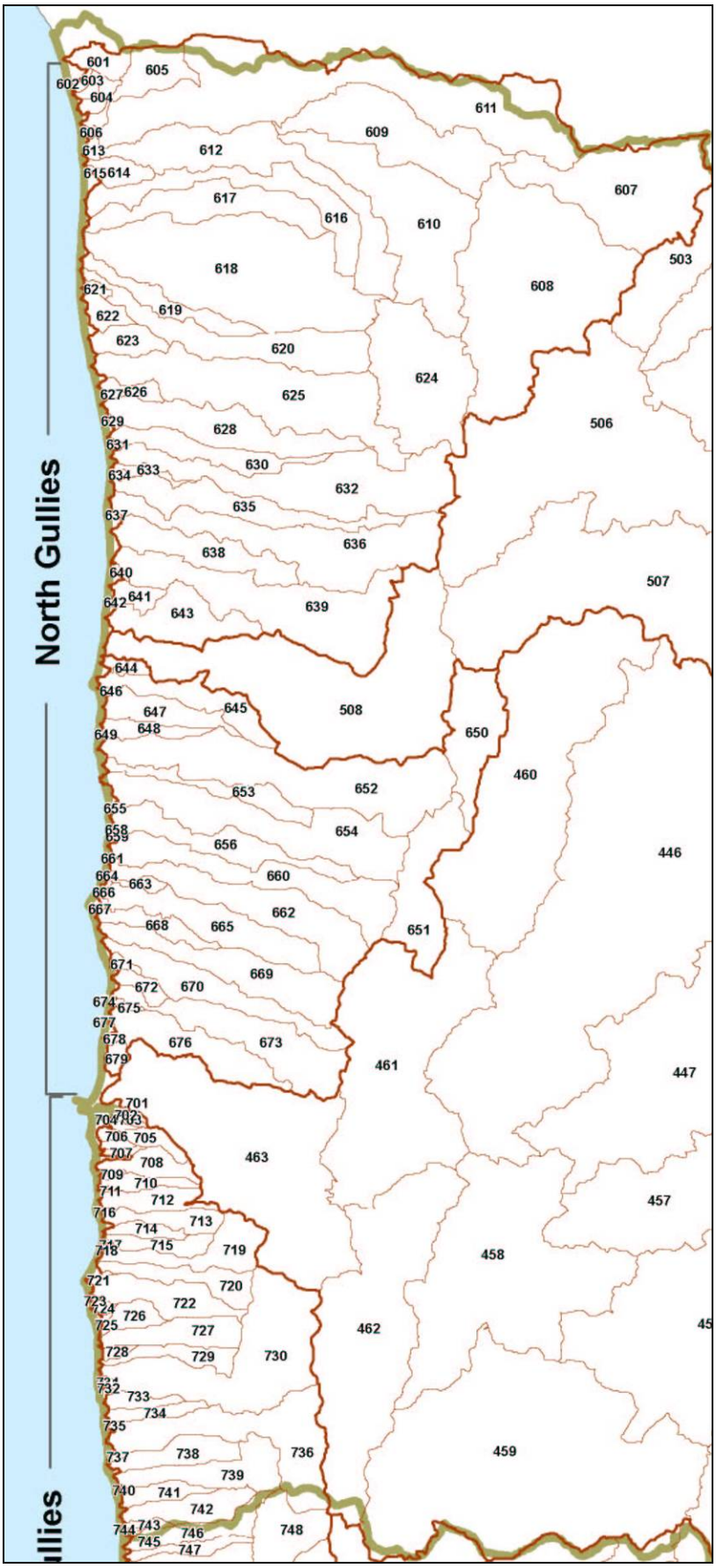

Fig. AG.1: Map of the shoreline subwatersheds, numbered according to SWAT model.

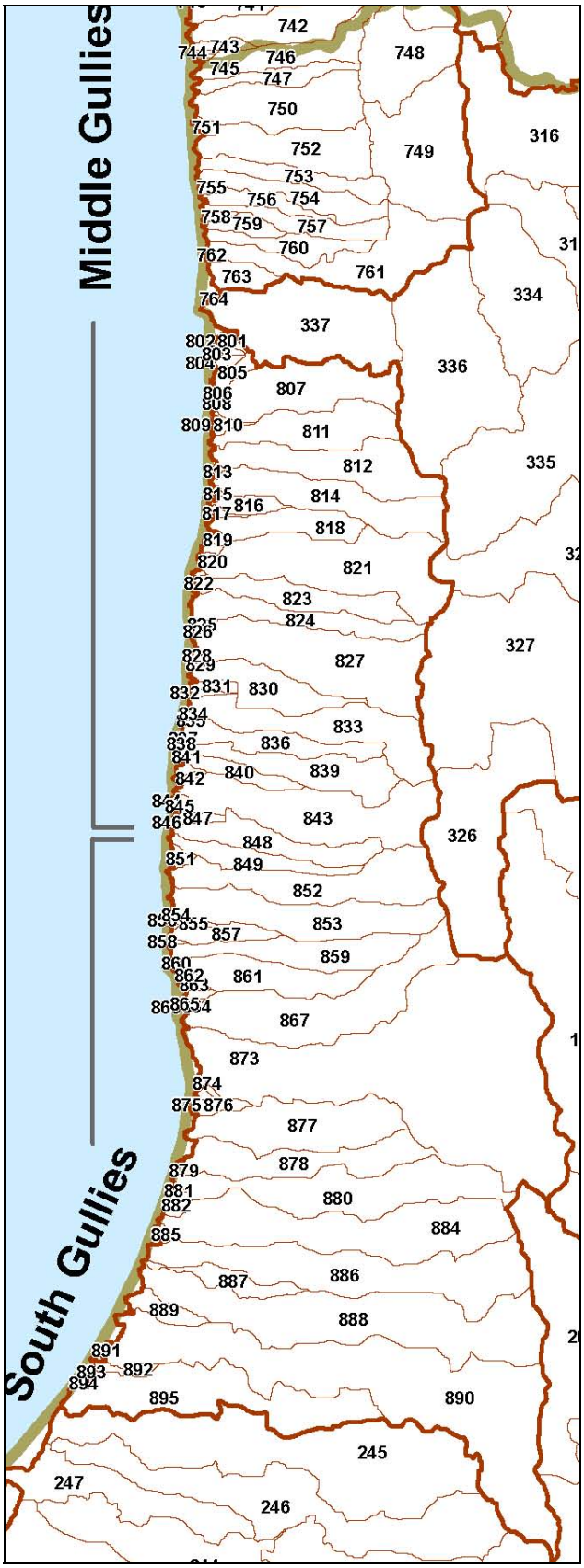

Fig AF.1: Map of Lake Huron shoreline subwatersheds, numbered according to AVSWAT model.

Table AG.1: Total monthly streamflow (mm over watershed) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Total Streamflow (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	52.43	74.55	117.89	77.82	64.03	43.55	22.80	30.78	42.28	38.32	70.38	71.96	706.80
602	0.2196	53.12	75.75	119.51	78.61	65.27	46.65	26.68	35.60	49.17	40.95	71.17	72.30	734.80
603	0.3655	53.52	76.00	119.14	79.80	66.92	46.32	26.83	35.31	49.03	45.62	76.75	74.58	749.84
604	0.7529	53.65	75.57	118.60	79.48	67.79	46.61	25.47	34.20	47.22	47.23	78.39	75.69	749.89
605	3.2117	51.64	73.39	116.63	77.39	66.44	48.61	25.35	32.65	43.80	40.62	71.74	71.25	719.49
606	0.1626	53.32	76.27	119.77	76.51	62.17	45.21	26.20	34.37	48.28	39.60	70.89	72.01	724.59
607	14.1530	52.52	74.91	116.49	74.77	61.49	39.30	18.30	21.95	32.13	37.03	71.42	73.60	673.92
608	27.4480	51.91	72.73	114.56	74.25	60.87	42.37	19.54	21.15	30.78	39.61	72.60	72.99	673.37
609	10.9853	51.17	73.41	115.82	77.58	65.24	44.81	21.75	24.78	35.46	44.70	75.26	72.13	702.10
610	14.7211	52.48	74.06	116.35	75.71	62.30	42.29	20.13	23.64	34.20	41.54	74.92	74.06	691.68
611	26.6505	51.25	71.52	113.33	75.38	63.35	47.13	24.41	27.79	36.83	44.08	73.90	72.16	701.12
612	11.2644	52.27	73.82	115.95	75.81	63.23	44.10	21.61	25.71	36.19	43.87	76.08	74.02	702.65
613	0.2886	50.93	75.76	119.60	73.00	53.39	35.14	14.99	17.83	27.31	24.69	58.66	65.82	617.12
614	1.3068	53.40	75.40	118.65	77.23	63.78	44.00	23.04	31.49	43.79	40.26	72.43	73.55	717.04
615	0.1323	51.42	75.34	118.98	76.03	61.31	41.39	20.19	26.98	38.32	31.52	62.58	68.66	672.71
616	6.6770	50.49	71.55	113.13	74.93	62.72	46.22	23.84	26.02	35.10	43.96	73.20	71.51	692.65
617	6.6685	51.18	72.94	115.04	75.39	60.97	42.05	18.63	22.20	32.24	39.62	71.46	72.20	673.92
618	23.0036	53.35	74.39	117.01	76.17	61.94	41.47	19.72	25.37	36.66	44.58	76.56	75.65	702.87
619	3.0191	51.76	72.80	115.06	75.12	64.37	48.06	24.40	29.72	40.06	42.89	73.48	72.61	710.32
620	8.1604	50.74	71.91	113.71	74.59	62.96	46.88	24.21	26.90	36.63	43.37	72.94	71.39	696.23
621	0.3152	53.13	75.45	118.60	74.65	59.56	40.00	19.26	25.70	36.88	33.53	68.41	72.74	677.90
622	1.1440	54.17	75.94	119.10	75.19	60.22	40.45	19.98	27.64	39.58	36.85	72.13	74.47	695.73
623	1.8901	53.84	74.18	117.47	74.90	62.50	44.48	21.16	28.86	40.72	40.69	73.71	74.43	706.94
624	12.2594	55.12	76.66	118.77	73.62	57.02	36.78	18.37	23.51	34.53	36.93	75.01	76.64	682.95
625	15.6152	52.40	74.07	115.56	74.73	63.44	45.48	22.40	26.38	37.62	43.61	75.79	73.87	705.35
626	0.7993	53.11	75.39	118.45	76.48	63.46	43.05	22.07	30.16	41.18	37.82	71.55	73.24	705.97
627	0.1828	52.85	75.15	118.33	76.70	63.47	43.27	23.11	30.84	41.27	37.68	70.88	72.99	706.54
628	7.4942	52.82	74.10	115.74	75.16	64.23	46.38	22.73	27.87	39.39	43.88	76.00	74.41	712.69
629	0.1004	52.78	76.12	118.29	73.24	59.17	38.56	16.53	23.08	33.90	32.94	67.53	71.31	663.47
630	3.7583	52.77	73.50	114.86	74.48	64.01	48.24	24.40	29.31	40.87	45.96	76.76	74.64	719.82
631	0.0635	54.20	76.46	117.64	72.42	59.12	37.75	17.72	25.83	37.18	39.05	74.65	74.97	686.99
632	13.3844	53.38	74.69	116.21	73.93	61.99	43.78	20.84	25.18	36.89	42.33	75.53	74.70	699.47
633	0.5487	51.40	73.76	116.36	75.72	64.19	45.78	22.45	28.34	38.13	36.22	69.39	70.86	692.58

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	52.44	75.22	117.59	74.74	61.28	41.19	20.48	26.91	38.65	34.00	69.13	71.34	682.97
635	5.9121	51.65	73.13	114.62	74.69	63.66	47.84	24.38	28.02	38.58	42.84	74.04	72.61	706.05
636	12.5299	52.59	74.21	115.70	74.12	62.03	43.73	20.57	23.25	34.10	41.76	74.76	73.84	690.66
637	0.0577	55.00	62.52	82.41	57.77	50.00	38.48	16.13	23.22	31.40	24.03	53.55	60.53	555.03
638	5.3140	52.97	74.22	116.48	75.35	64.69	47.07	23.33	29.63	41.90	42.99	75.17	73.99	717.80
639	14.0470	57.22	62.09	82.51	58.48	48.04	34.93	14.53	19.08	27.48	32.81	61.14	67.06	565.35
640	0.1244	56.52	63.50	82.31	58.84	49.70	36.43	15.39	23.65	31.43	24.46	55.34	62.54	560.09
641	1.0287	58.34	64.02	86.83	59.85	50.87	38.43	17.62	29.10	38.59	30.28	59.05	66.29	599.27
642	0.0691	52.81	61.46	79.92	56.62	43.63	27.73	7.12	10.18	15.74	13.34	42.55	57.17	468.28
643	5.2502	58.37	62.59	84.94	58.94	50.40	40.59	18.19	27.17	36.50	34.20	62.72	67.32	601.92
644	0.6674	57.96	64.23	84.38	58.77	48.81	34.69	14.64	23.50	31.66	25.56	57.35	65.56	567.12
645	4.0982	57.33	60.71	82.21	58.96	50.05	41.07	19.86	26.46	34.90	35.94	62.64	66.72	596.87
646	0.1058	60.65	64.58	84.51	55.98	46.37	32.07	13.74	26.16	35.69	34.44	67.18	71.30	592.66
647	2.9632	57.99	62.63	84.13	59.18	50.16	39.58	17.27	25.46	34.42	32.29	61.72	66.85	591.68
648	1.4051	58.22	62.87	84.03	58.43	49.15	37.48	15.49	23.75	32.83	32.09	61.88	67.72	583.94
649	0.0674	61.36	65.69	85.31	56.46	46.80	33.22	14.50	26.83	36.87	34.97	67.52	71.00	600.53
650	6.3381	47.45	67.77	113.35	83.98	60.11	33.31	15.07	13.32	21.07	37.53	64.15	65.69	622.79
651	4.8242	53.72	58.62	80.66	61.68	47.23	31.55	12.57	15.42	21.91	28.30	55.11	63.38	530.15
652	16.2879	55.91	60.64	80.50	58.18	48.62	36.68	16.65	20.20	28.14	34.50	61.32	66.06	567.41
653	3.0394	56.81	60.19	80.71	58.41	49.57	40.94	20.36	25.98	33.77	37.54	63.96	66.84	595.10
654	11.9029	56.80	61.56	81.17	58.47	49.19	37.21	16.34	20.74	28.96	34.07	62.13	67.18	573.80
655	0.0840	61.83	66.77	86.41	57.07	46.56	33.64	15.83	27.83	38.52	34.27	67.42	70.93	607.06
656	5.1345	56.45	60.99	80.94	58.69	49.62	38.67	17.83	22.63	30.77	35.65	62.61	66.89	581.75
657	0.0735	56.98	64.51	84.32	58.74	49.61	35.77	15.86	24.25	33.24	25.10	55.63	63.46	567.47
658	0.0458	58.07	64.64	86.20	59.76	52.70	41.99	20.12	31.88	42.41	31.38	61.07	64.82	615.03
659	0.0658	55.71	63.18	82.99	57.72	49.68	37.11	15.36	22.81	30.94	24.04	54.21	62.34	556.10
660	8.5454	57.63	62.15	81.23	58.25	49.10	37.81	16.74	22.19	30.98	34.74	63.09	67.96	581.86
661	0.0307	55.46	62.51	82.42	57.85	51.59	40.10	19.32	29.44	39.96	28.88	58.33	61.29	587.15
662	8.8341	57.35	61.72	81.21	58.38	49.46	38.72	17.83	22.48	31.14	35.80	63.59	67.77	585.45
663	0.5166	57.64	62.22	81.61	59.36	51.26	40.35	18.38	26.08	33.99	33.56	62.58	66.63	593.65
664	0.0522	52.61	60.36	77.55	55.81	46.42	33.27	12.25	15.77	22.84	18.84	48.94	57.77	502.45
665	6.5997	57.24	61.59	81.95	58.29	48.76	37.58	16.40	20.97	29.08	32.88	61.05	66.87	572.66
666	0.0636	52.41	61.56	78.54	55.82	44.07	27.11	5.47	6.62	11.44	10.20	41.01	56.58	450.85
667	0.0706	52.72	61.73	79.55	56.06	42.94	26.29	5.70	6.99	11.93	10.67	40.63	57.13	452.33
668	1.8870	55.44	60.89	79.88	57.73	48.00	34.89	12.67	16.45	23.03	24.45	54.19	63.79	531.42

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	58.30	62.72	81.67	57.99	48.67	37.03	15.66	21.85	30.54	33.33	62.75	68.30	578.82
670	5.7881	55.87	60.76	80.18	59.65	50.82	39.09	18.48	22.74	30.40	35.26	62.45	66.22	581.92
671	0.3355	57.90	64.15	84.70	58.48	49.06	35.77	15.54	24.50	33.34	27.39	58.49	65.72	575.04
672	0.9395	58.78	63.90	83.93	60.22	49.91	34.78	14.57	22.45	31.63	33.61	64.13	69.24	587.13
673	7.9997	57.22	62.25	81.03	59.37	49.57	35.99	15.31	20.33	28.21	33.59	62.06	67.95	572.89
674	0.0497	52.54	61.91	78.69	62.57	46.55	23.21	4.32	2.47	7.63	14.70	46.63	61.86	463.08
675	0.1866	52.18	60.82	78.38	62.74	46.58	23.70	4.79	3.26	8.39	15.52	46.97	62.29	465.63
676	5.5909	56.39	61.84	81.92	60.93	52.01	38.55	16.98	23.67	32.31	33.16	62.16	66.30	586.23
677	0.0398	50.60	59.97	75.86	60.97	46.89	24.76	4.55	2.92	7.76	14.09	44.83	59.23	452.42
678	0.1595	50.27	58.97	77.68	69.74	61.52	39.15	18.52	24.10	32.61	28.86	56.58	59.19	577.19
679	0.6001	50.62	58.55	81.13	72.08	61.17	37.64	19.41	25.01	32.39	35.25	62.13	59.78	595.17
701	0.1254	50.48	57.67	80.08	68.63	57.83	37.41	16.05	20.63	29.33	26.57	55.60	60.11	560.38
702	0.0799	51.42	59.35	81.31	69.18	57.30	35.02	14.59	21.12	30.28	26.26	56.00	60.94	562.77
703	0.2377	51.17	58.38	81.16	69.30	58.11	35.92	15.00	20.97	29.77	26.83	55.75	61.15	563.51
704	0.2098	51.09	58.40	81.05	69.20	58.13	36.03	15.12	20.94	29.76	26.76	55.83	61.03	563.35
705	1.3627	49.75	56.38	79.03	69.22	59.32	39.51	17.98	23.02	31.26	28.61	55.44	59.33	568.85
706	0.2602	48.04	56.21	76.45	73.62	70.58	49.04	25.42	39.24	48.95	35.32	56.01	54.95	633.83
707	0.3074	47.45	55.46	75.57	73.25	70.89	50.63	25.91	38.99	48.32	35.01	55.82	54.68	631.98
708	1.8884	48.89	56.98	76.98	70.50	65.78	45.01	22.04	32.65	41.63	31.46	53.97	55.16	601.04
709	0.1895	51.60	59.54	79.55	66.53	60.06	42.81	21.50	33.40	43.19	31.59	54.85	57.17	601.80
710	1.1343	54.16	60.18	79.77	60.34	49.39	33.43	13.59	20.42	28.18	26.33	55.38	62.41	543.57
711	0.0620	53.79	59.27	77.35	59.67	49.42	33.88	13.82	17.12	22.89	29.45	61.33	65.38	543.37
712	2.1799	55.72	61.40	80.82	60.78	47.14	29.80	10.11	15.24	22.17	26.53	58.24	66.51	534.45
713	2.0642	55.50	61.56	80.57	57.12	42.18	25.30	8.28	12.79	19.35	21.83	52.68	63.75	500.91
714	0.9506	57.36	62.03	80.77	56.18	42.91	28.94	10.50	19.19	26.17	24.11	55.79	65.61	529.57
715	1.6470	56.78	62.36	81.58	55.03	41.09	25.57	8.87	13.94	21.60	23.93	53.27	65.08	509.11
716	0.0265	52.33	61.84	76.92	54.02	39.18	20.58	3.43	3.80	8.67	8.34	41.21	57.90	428.22
717	0.0813	58.71	65.18	85.51	55.62	41.90	28.06	11.95	22.53	32.22	23.26	52.23	64.98	542.13
718	0.0364	49.81	58.25	74.22	52.71	38.59	21.60	4.71	6.36	10.94	10.72	42.02	55.33	425.27
719	3.9405	56.18	61.61	80.73	54.52	40.60	25.95	8.79	14.22	21.34	21.47	51.40	64.26	501.08
720	2.9784	56.19	62.10	80.79	54.70	40.25	23.72	7.22	11.90	18.73	21.13	51.41	64.33	492.47
721	0.1524	53.96	61.68	79.34	55.23	40.59	23.66	6.51	11.19	16.74	13.95	45.04	59.63	467.53
722	3.9243	56.02	61.79	81.00	56.37	42.13	25.78	8.57	13.76	21.00	22.36	52.37	64.08	505.24
723	0.0279	57.93	65.33	84.41	54.89	42.61	30.12	12.00	22.65	32.39	22.43	51.95	63.22	539.93
724	0.2535	56.48	63.96	85.10	59.87	47.55	32.94	16.42	27.87	38.13	27.56	52.12	61.45	569.45

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	51.91	60.27	81.16	61.52	54.05	41.18	20.74	31.49	40.74	28.91	51.36	55.44	578.77
726	1.3912	57.54	62.83	82.78	58.67	44.71	28.66	10.94	19.20	27.08	26.12	56.94	66.53	542.01
727	3.2773	54.09	60.76	80.71	57.94	41.31	22.77	6.99	10.46	16.55	19.45	48.71	61.99	481.74
728	0.3486	58.04	63.68	85.08	55.01	41.86	28.32	11.16	21.04	29.96	22.94	51.37	64.55	533.02
729	1.9885	53.33	60.04	79.66	59.57	43.66	24.19	7.51	9.93	15.88	21.57	50.83	62.11	488.27
730	13.8867	63.00	71.13	97.30	75.61	60.33	38.19	15.93	16.93	28.99	33.93	63.96	75.09	640.40
731	0.1371	56.29	63.35	81.48	58.43	47.10	31.28	12.07	18.34	24.74	20.69	53.34	63.23	530.35
732	0.0378	50.83	59.19	75.04	55.52	41.55	22.99	5.70	3.54	7.81	10.00	43.99	56.88	433.04
733	0.9503	54.92	61.25	81.53	60.39	48.68	32.48	11.95	15.81	22.76	24.93	55.01	63.73	533.44
734	1.1721	56.23	61.65	81.71	60.11	49.45	34.87	14.78	18.36	26.64	32.73	60.14	66.07	562.74
735	0.1015	58.25	63.61	82.60	59.54	51.60	38.13	17.68	23.47	31.36	34.72	65.67	69.41	596.03
736	9.8639	55.62	60.40	80.06	59.97	48.22	33.12	13.20	16.32	23.38	28.90	57.61	64.90	541.69
737	0.1350	58.09	64.99	86.11	59.80	50.32	36.99	18.26	28.42	38.43	28.38	58.39	65.53	593.71
738	2.7769	64.41	72.80	99.47	76.08	60.02	36.30	15.50	18.77	32.03	35.44	65.72	76.80	653.34
739	4.5566	64.64	72.23	98.54	75.21	60.92	40.28	17.86	20.92	34.16	36.10	67.07	77.24	665.17
740	0.0420	53.85	59.98	78.14	56.62	49.28	37.69	16.40	24.87	32.16	25.71	55.64	60.93	551.29
741	1.3845	63.31	71.85	98.11	77.85	62.72	40.71	17.16	19.92	32.21	33.71	64.78	75.41	657.73
742	3.0189	63.31	72.14	98.55	78.16	62.88	39.62	17.49	20.20	33.35	37.55	67.82	76.55	667.61
743	0.3395	63.35	71.89	99.10	76.39	62.47	43.46	20.55	25.33	39.06	36.50	66.16	74.81	679.07
744	0.0668	62.22	71.26	99.26	77.02	62.60	43.74	21.56	27.86	41.31	33.73	62.70	71.79	675.07
745	0.0587	61.12	71.68	99.34	75.98	60.35	40.85	17.80	21.23	32.72	27.41	57.17	69.25	634.89
746	2.7704	62.75	71.36	97.37	76.78	62.27	40.66	17.86	19.25	32.46	36.67	67.06	76.21	660.71
747	1.2664	61.20	69.90	96.68	78.15	62.26	38.27	15.37	15.15	27.16	34.19	63.14	74.24	635.72
748	4.2834	66.08	74.19	100.10	74.63	57.37	33.32	13.66	17.73	30.12	31.19	64.17	78.07	640.62
749	7.1426	43.42	52.74	70.98	55.81	41.73	26.89	27.18	15.34	39.23	37.08	64.13	59.38	533.92
750	4.4702	39.24	49.85	69.39	59.24	43.93	25.26	22.63	11.14	30.67	36.70	60.13	54.48	502.67
751	0.1943	43.12	52.25	69.55	54.53	43.98	30.34	31.00	18.23	43.62	42.99	66.92	59.32	555.83
752	3.9813	40.08	50.28	69.44	58.93	44.15	25.36	23.25	11.85	32.77	36.97	61.74	55.87	510.68
753	1.8866	39.84	49.24	67.87	57.70	46.26	28.82	24.61	12.31	33.83	38.86	62.54	56.21	518.10
754	2.1167	39.06	48.48	68.69	59.06	44.86	25.68	21.77	10.57	29.87	39.31	62.28	55.13	504.77
755	0.1806	44.52	52.79	72.76	56.51	40.23	28.61	30.30	18.57	45.04	40.03	66.44	60.17	555.97
756	0.9717	34.48	45.42	66.23	63.20	46.70	23.21	17.05	6.85	21.49	30.88	54.04	49.22	458.77
757	1.6273	35.25	45.49	67.45	62.31	47.31	25.60	20.08	9.45	25.56	34.58	56.88	50.16	480.12
758	0.1636	39.12	50.04	68.74	53.18	39.76	24.08	19.81	8.61	26.42	26.41	52.27	53.06	461.52

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
759	0.6767	33.54	46.02	66.96	62.02	43.17	21.09	14.07	3.87	16.34	24.70	49.18	47.19	428.17
760	1.6425	31.67	42.17	66.24	65.71	49.33	24.04	17.11	7.21	19.68	31.96	53.42	46.22	454.76
761	5.4201	39.83	49.56	69.19	57.70	46.05	28.64	25.21	13.44	34.69	38.02	61.87	55.51	519.71
762	0.0473	38.66	50.40	69.18	55.41	40.71	23.28	18.91	9.45	27.96	28.95	53.78	52.69	469.37
763	0.9776	38.46	48.60	70.42	59.38	43.19	24.15	21.12	10.51	28.86	35.79	59.34	53.94	493.76
764	0.0327	38.76	48.92	65.27	56.54	51.16	37.15	33.01	17.63	39.78	44.57	68.77	58.27	559.83
801	0.1899	38.06	49.20	67.94	65.07	61.14	38.06	38.95	24.11	50.91	49.70	72.02	55.13	610.29
802	0.1652	38.17	48.95	67.98	65.05	61.48	38.34	38.88	24.17	50.77	49.85	71.94	55.10	610.68
803	0.0207	30.54	43.77	59.94	59.93	65.15	48.46	49.37	31.62	54.87	44.28	61.58	42.87	592.37
804	0.1544	36.61	48.92	67.04	66.40	65.66	42.01	42.78	27.68	56.22	48.87	69.83	51.76	623.79
805	0.4573	32.30	45.16	63.54	61.47	58.07	41.15	40.11	26.48	50.23	37.10	53.67	43.51	552.79
806	0.0286	41.21	51.01	75.31	70.95	56.93	37.14	34.32	18.47	43.76	45.62	71.85	58.38	604.97
807	4.6905	29.57	43.76	60.03	46.85	39.81	23.40	19.29	9.41	23.39	15.43	33.41	36.03	380.38
808	0.0318	31.03	45.32	64.80	66.13	63.99	44.56	44.19	29.44	56.83	37.12	50.49	38.68	572.59
809	0.0208	38.44	49.68	71.07	72.42	68.12	49.83	53.80	37.32	71.48	57.50	75.95	53.50	699.12
810	0.2197	40.87	50.88	71.14	60.02	53.17	37.00	37.96	25.17	53.50	45.19	64.81	54.57	594.27
811	3.6146	42.53	51.31	70.79	55.86	44.25	27.77	26.36	14.77	37.96	41.66	65.89	59.34	538.50
812	4.5811	41.70	51.28	69.79	56.58	46.59	30.07	27.75	15.75	39.14	41.31	64.92	57.93	542.82
813	0.0763	35.44	49.19	68.42	59.95	50.76	32.67	31.18	18.24	40.91	30.13	49.55	45.92	512.36
814	4.3673	42.70	51.41	70.03	55.40	45.26	29.96	28.09	15.98	40.41	39.30	64.20	58.22	540.95
815	0.0444	37.73	50.86	69.60	51.98	35.94	20.46	15.11	4.04	19.39	17.27	44.22	49.93	416.53
816	0.6943	42.62	51.39	72.19	57.15	47.64	32.56	32.57	20.33	46.57	40.35	64.01	56.60	563.97
817	0.1234	40.01	50.46	70.55	54.84	44.95	29.07	25.37	13.47	35.17	30.49	55.28	53.27	502.93
818	2.1621	42.13	51.78	71.31	56.69	45.18	28.99	28.37	16.20	40.03	38.34	63.75	57.72	540.47
819	0.1383	39.33	50.17	70.15	55.21	44.83	28.81	27.17	14.84	37.35	30.32	54.61	51.44	504.23
820	0.109	39.15	51.13	71.14	56.81	45.83	29.38	29.26	16.38	40.34	29.95	53.90	50.34	513.62
821	7.7087	41.47	50.78	69.32	55.83	46.26	31.01	28.08	15.46	38.47	39.48	63.37	56.93	536.45
822	0.0462	35.91	49.89	68.73	53.53	39.82	24.15	20.36	7.70	25.63	19.42	43.67	45.41	434.20
823	2.7867	41.08	50.70	69.01	55.12	45.71	30.87	27.43	14.55	37.79	36.85	61.49	56.22	526.83
824	2.7875	40.88	49.95	68.41	55.11	46.40	33.54	30.66	16.85	40.68	39.40	62.43	55.72	540.02
825	0.0888	40.12	51.70	70.81	56.39	45.73	30.70	30.24	17.18	42.04	33.34	58.63	53.37	530.26
826	7.625	43.48	52.48	70.89	55.55	44.30	28.38	28.21	16.14	40.96	40.62	65.80	59.55	546.36
827	0.0354	36.01	48.64	67.18	54.50	46.41	33.63	29.69	14.23	34.31	29.31	52.33	48.38	494.61
828	0.0299	34.86	46.99	65.51	53.84	45.26	32.92	29.74	14.07	33.10	28.74	50.83	46.64	482.49

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
829	0.0974	39.66	50.75	70.46	55.64	46.94	31.81	29.42	16.12	39.12	32.61	56.20	52.36	521.09
830	2.6253	42.27	50.41	70.79	56.35	47.45	33.35	30.88	18.05	43.04	41.78	64.28	56.77	555.41
831	0.2743	43.71	51.63	72.35	56.95	46.94	32.15	32.97	20.82	47.44	40.11	64.02	56.95	566.05
832	0.1364	42.02	50.53	70.78	55.75	47.74	32.98	31.62	18.93	44.16	37.65	61.27	54.81	548.24
833	4.9042	42.16	51.07	69.57	55.47	46.23	31.54	28.89	16.16	40.25	41.56	64.77	57.78	545.45
834	0.0303	41.06	44.00	52.39	49.25	43.28	32.24	29.08	14.47	34.39	31.90	51.56	52.74	476.35
835	0.0645	44.89	49.13	59.92	52.86	41.31	25.14	22.26	10.76	31.07	22.73	47.51	54.32	461.89
836	2.188	47.22	48.63	59.33	52.81	44.99	30.61	27.25	15.85	38.51	35.78	59.87	61.17	522.04
837	0.0337	42.22	46.50	56.15	51.24	42.10	26.76	22.20	9.43	28.58	22.41	44.12	50.10	441.82
838	0.0239	40.12	45.70	55.54	50.86	39.08	21.79	15.79	4.43	20.06	14.34	36.81	46.94	391.45
839	3.3264	47.96	49.34	59.41	52.04	43.73	29.20	26.15	15.01	37.97	38.02	62.13	62.70	523.67
840	1.0502	47.05	48.79	59.80	53.03	45.49	31.24	27.94	16.96	39.46	34.93	58.73	60.24	523.65
841	0.1102	50.39	61.04	53.28	44.09	28.59	27.92	16.88	39.88	31.57	53.48	59.65	47.43	514.19
842	0.1308	47.95	50.47	61.26	54.32	44.05	29.25	29.52	17.97	42.11	33.08	58.52	61.14	529.65
843	6.8981	48.91	50.60	60.47	52.73	42.96	27.16	26.72	15.88	39.39	38.73	63.49	63.99	531.03
844	0.0754	47.14	49.71	61.85	56.18	46.82	31.74	34.68	22.86	47.40	34.93	59.43	59.63	552.37
845	0.0213	46.28	49.49	60.54	54.54	48.96	36.11	35.89	21.77	47.38	34.07	57.95	57.26	550.23
846	0.0254	38.34	42.81	52.29	60.59	56.69	42.55	44.83	29.06	53.53	37.46	55.72	47.59	561.46
847	0.2893	49.17	51.28	61.05	52.01	44.02	27.93	28.95	19.86	44.25	40.49	64.19	63.61	546.80
848	2.7345	47.35	48.35	59.79	53.83	46.44	32.29	29.42	17.77	41.09	39.12	62.84	62.02	540.33
849	1.6469	46.80	47.91	59.28	53.89	47.20	33.99	30.87	18.74	42.43	40.96	63.60	61.67	547.35
850	0.2326	49.49	52.01	63.01	54.30	41.98	28.54	31.67	21.30	46.23	37.10	62.68	63.43	551.76
851	0.2326	49.49	52.01	63.01	54.31	41.99	28.55	31.68	21.30	46.24	37.09	62.67	63.42	551.77
852	5.4305	47.86	49.54	59.32	52.97	44.81	29.25	26.64	15.42	38.47	37.16	61.68	62.60	525.73
853	5.3264	47.75	48.90	59.74	53.01	45.35	31.36	28.74	16.93	40.23	37.70	62.07	62.23	534.04
854	0.0267	43.79	47.66	57.69	53.39	47.19	34.21	33.13	19.57	43.32	30.77	54.05	54.79	519.57
855	0.1517	46.20	48.43	60.43	54.90	47.53	32.68	33.29	21.70	45.37	34.65	57.57	58.14	540.90
856	0.0258	43.89	47.31	56.41	51.14	44.82	31.67	27.74	13.19	35.15	27.77	49.52	53.12	481.73
857	0.995	48.42	50.39	61.11	53.15	46.51	31.55	30.42	19.07	43.76	38.77	62.91	62.57	548.62
858	0.0328	43.30	45.72	54.69	50.07	44.00	32.39	30.34	16.00	38.94	30.36	52.05	53.55	491.42
859	3.4439	47.15	48.19	58.98	51.89	44.99	33.04	30.35	17.45	40.72	40.04	62.33	61.43	536.55
860	0.0367	43.33	46.57	57.32	52.49	45.80	32.91	30.51	16.87	38.74	28.94	51.37	53.14	497.97
861	3.0772	47.68	48.74	60.00	53.39	47.38	34.35	31.19	18.85	43.04	40.17	63.62	62.17	550.58
862	0.0597	45.94	48.20	58.37	51.24	45.32	32.88	30.83	18.34	42.35	35.24	58.38	58.86	525.95

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
863	0.2171	48.39	50.85	61.69	53.58	43.15	28.70	30.27	19.25	43.31	34.84	59.78	62.05	535.84
864	0.1687	48.65	50.79	61.76	53.37	45.42	29.73	30.19	19.65	44.05	35.95	60.55	62.32	542.42
865	0.0255	47.55	49.96	60.17	52.93	47.23	32.56	31.40	18.69	44.33	34.21	59.47	60.07	538.56
866	0.0995	48.14	50.58	61.17	53.19	44.70	29.36	30.16	19.24	43.58	34.97	59.57	61.63	536.29
867	7.0547	47.81	49.01	59.49	53.03	45.83	31.67	28.70	16.76	40.16	38.07	62.52	62.53	535.57
868	0.0592	45.98	48.20	58.37	51.21	45.38	32.95	30.91	18.34	42.40	35.34	58.42	58.93	526.43
869	0.2172	48.37	50.83	61.68	53.57	43.16	28.70	30.26	19.22	43.28	34.76	59.76	62.02	535.62
870	0.1687	48.63	50.76	61.73	53.36	45.41	29.72	30.17	19.63	44.03	35.93	60.53	62.30	542.21
871	0.0997	48.10	50.55	61.15	53.18	44.76	29.35	30.15	19.21	43.56	34.93	59.53	61.59	536.06
872	7.1256	47.87	49.07	59.55	53.07	45.79	31.49	28.61	16.75	40.14	38.01	62.55	62.61	535.52
873	25.8389	47.48	49.24	58.92	52.64	44.20	29.09	26.03	14.76	36.90	36.65	60.53	62.07	518.50
874	0.114	46.09	49.77	59.77	51.45	45.69	32.96	31.70	18.70	42.03	34.07	57.05	57.95	527.23
875	0.0854	46.69	49.83	59.86	51.37	44.92	30.37	29.48	18.40	41.92	34.05	58.07	59.92	524.87
876	0.4446	49.37	51.58	61.31	50.82	42.91	28.27	27.66	16.28	39.90	38.41	62.49	63.94	532.93
877	5.2953	48.71	50.31	60.39	52.35	42.62	26.72	25.01	14.28	36.81	38.37	63.38	64.36	523.30
878	4.0376	47.91	49.15	59.49	51.68	43.28	29.33	25.30	14.16	36.49	39.72	63.14	63.31	522.95
879	0.0701	49.01	51.55	62.38	54.39	40.97	29.18	31.99	19.70	44.94	35.01	61.38	63.07	543.58
880	6.7158	48.29	49.57	59.33	51.02	44.07	30.79	26.80	15.07	38.14	39.58	63.25	63.38	529.29
881	0.0457	47.15	50.22	62.19	56.30	48.25	32.85	35.08	22.68	47.40	34.39	58.56	58.98	554.07
882	0.2844	47.46	50.88	62.73	56.97	44.06	32.94	37.10	24.32	49.96	34.87	59.75	60.09	561.13
883	0.2902	58.25	58.69	61.88	54.59	59.50	47.57	46.22	27.44	54.20	42.07	64.80	65.86	641.07
884	9.0634	63.00	60.21	61.07	46.69	52.18	43.70	40.60	23.17	42.37	38.84	63.37	72.98	608.16
885	0.1466	59.32	58.61	61.56	53.02	59.47	48.50	47.13	27.96	52.72	42.30	65.43	68.03	644.04
886	8.7433	63.08	60.49	61.35	46.64	52.19	43.42	40.55	23.41	43.54	39.39	63.63	72.81	610.48
887	1.2169	61.00	58.87	60.69	48.67	54.48	45.74	42.69	24.40	44.04	38.83	63.43	71.12	613.96
888	11.4533	62.76	59.97	61.09	47.86	53.73	44.93	42.62	25.25	45.69	41.00	65.24	73.16	623.30
889	0.8397	62.29	59.52	60.74	48.42	54.90	45.53	43.71	25.12	44.82	39.10	63.72	71.62	619.49
890	18.5665	63.12	60.42	61.25	46.76	52.49	43.54	41.16	23.66	44.03	39.21	63.65	72.64	611.92
891	0.089	49.27	52.74	59.75	64.62	75.59	60.56	60.59	39.28	66.22	47.33	66.01	56.86	698.83
892	0.3537	59.83	58.91	61.53	52.03	58.16	47.11	46.12	27.15	51.61	41.41	64.77	68.28	636.92
893	0.068	48.74	52.25	59.51	64.90	76.24	61.06	60.98	39.78	66.65	47.51	65.84	56.32	699.79
894	0.0772	49.19	52.66	60.01	61.77	71.36	56.92	54.79	34.16	58.74	41.93	61.69	56.32	659.53
895	7.0878	60.48	58.57	61.20	48.44	53.80	45.13	41.71	23.92	42.60	36.82	61.49	70.23	604.39

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
896	26.4622	58.76	60.56	53.55	47.31	50.67	45.06	38.14	28.19	38.45	38.31	59.55	68.03	586.59
897	31.2861	58.89	60.69	54.00	45.14	48.35	42.33	34.93	25.36	34.21	35.21	56.67	67.20	562.97
898	16.0349	45.87	45.26	44.93	55.98	62.80	48.07	34.78	21.25	23.76	28.22	47.95	55.57	514.45
899	6.2358	52.17	52.54	49.16	52.16	57.55	46.43	36.41	24.50	30.86	33.45	53.44	61.33	550.00

Table AG.2: Total monthly streamflow (cms) for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Total Streamflow (cms)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	0.0292	0.0460	0.0657	0.0448	0.0357	0.0251	0.0127	0.0172	0.0243	0.0214	0.0405	0.0401	0.4026
602	0.2196	0.0044	0.0069	0.0098	0.0067	0.0054	0.0040	0.0022	0.0029	0.0042	0.0034	0.0060	0.0059	0.0616
603	0.3655	0.0073	0.0115	0.0163	0.0113	0.0091	0.0065	0.0037	0.0048	0.0069	0.0062	0.0108	0.0102	0.1046
604	0.7529	0.0151	0.0235	0.0333	0.0231	0.0191	0.0135	0.0072	0.0096	0.0137	0.0133	0.0228	0.0213	0.2154
605	3.2117	0.0619	0.0974	0.1399	0.0959	0.0797	0.0602	0.0304	0.0391	0.0543	0.0487	0.0889	0.0854	0.8818
606	0.1626	0.0032	0.0051	0.0073	0.0048	0.0038	0.0028	0.0016	0.0021	0.0030	0.0024	0.0044	0.0044	0.0450
607	14.1530	0.2775	0.4382	0.6156	0.4083	0.3249	0.2146	0.0967	0.1160	0.1754	0.1957	0.3900	0.3889	3.6418
608	27.4480	0.5319	0.8251	1.1740	0.7863	0.6238	0.4487	0.2003	0.2167	0.3260	0.4059	0.7688	0.7480	7.0556
609	10.9853	0.2099	0.3333	0.4750	0.3288	0.2676	0.1899	0.0892	0.1016	0.1503	0.1833	0.3189	0.2958	2.9437
610	14.7211	0.2884	0.4507	0.6395	0.4300	0.3424	0.2402	0.1107	0.1299	0.1942	0.2283	0.4255	0.4071	3.8869
611	26.6505	0.5099	0.7879	1.1276	0.7751	0.6303	0.4846	0.2429	0.2765	0.3787	0.4386	0.7598	0.7180	7.1299
612	11.2644	0.2198	0.3437	0.4876	0.3294	0.2659	0.1916	0.0909	0.1081	0.1573	0.1845	0.3306	0.3113	3.0209
613	0.2886	0.0055	0.0090	0.0129	0.0081	0.0058	0.0039	0.0016	0.0019	0.0030	0.0027	0.0065	0.0071	0.0681
614	1.3068	0.0261	0.0407	0.0579	0.0389	0.0311	0.0222	0.0112	0.0154	0.0221	0.0196	0.0365	0.0359	0.3576
615	0.1323	0.0025	0.0041	0.0059	0.0039	0.0030	0.0021	0.0010	0.0013	0.0020	0.0016	0.0032	0.0034	0.0340
616	6.6770	0.1259	0.1975	0.2820	0.1930	0.1563	0.1191	0.0594	0.0649	0.0904	0.1096	0.1886	0.1783	1.7649
617	6.6685	0.1274	0.2011	0.2864	0.1940	0.1518	0.1082	0.0464	0.0553	0.0829	0.0986	0.1838	0.1798	1.7157
618	23.0036	0.4582	0.7074	1.0049	0.6760	0.5320	0.3681	0.1694	0.2179	0.3254	0.3829	0.6795	0.6497	6.1712
619	3.0191	0.0583	0.0909	0.1297	0.0875	0.0726	0.0560	0.0275	0.0335	0.0467	0.0483	0.0856	0.0818	0.8184
620	8.1604	0.1546	0.2426	0.3464	0.2348	0.1918	0.1476	0.0737	0.0820	0.1153	0.1321	0.2297	0.2175	2.1682
621	0.3152	0.0063	0.0098	0.0140	0.0091	0.0070	0.0049	0.0023	0.0030	0.0045	0.0039	0.0083	0.0086	0.0816
622	1.1440	0.0231	0.0359	0.0509	0.0332	0.0257	0.0179	0.0085	0.0118	0.0175	0.0157	0.0318	0.0318	0.3039
623	1.8901	0.0380	0.0580	0.0829	0.0546	0.0441	0.0324	0.0149	0.0204	0.0297	0.0287	0.0538	0.0525	0.5100
624	12.2594	0.2523	0.3885	0.5436	0.3482	0.2610	0.1739	0.0841	0.1076	0.1633	0.1690	0.3548	0.3508	3.1971
625	15.6152	0.3055	0.4781	0.6737	0.4502	0.3699	0.2740	0.1306	0.1538	0.2266	0.2543	0.4566	0.4307	4.2039
626	0.7993	0.0159	0.0249	0.0353	0.0236	0.0189	0.0133	0.0066	0.0090	0.0127	0.0113	0.0221	0.0219	0.2154
627	0.1828	0.0036	0.0057	0.0081	0.0054	0.0043	0.0031	0.0016	0.0021	0.0029	0.0026	0.0050	0.0050	0.0493
628	7.4942	0.1478	0.2295	0.3238	0.2173	0.1797	0.1341	0.0636	0.0780	0.1139	0.1228	0.2197	0.2082	2.0384
629	0.1004	0.0020	0.0032	0.0044	0.0028	0.0022	0.0015	0.0006	0.0009	0.0013	0.0012	0.0026	0.0027	0.0254
630	3.7583	0.0741	0.1142	0.1612	0.1080	0.0898	0.0699	0.0342	0.0411	0.0593	0.0645	0.1113	0.1047	1.0323
631	0.0635	0.0013	0.0020	0.0028	0.0018	0.0014	0.0009	0.0004	0.0006	0.0009	0.0009	0.0018	0.0018	0.0167
632	13.3844	0.2668	0.4132	0.5807	0.3818	0.3098	0.2261	0.1041	0.1258	0.1905	0.2115	0.3900	0.3733	3.5737

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
633	0.5487	0.0105	0.0167	0.0238	0.0160	0.0132	0.0097	0.0046	0.0058	0.0081	0.0074	0.0147	0.0145	0.1451
634	0.1489	0.0029	0.0046	0.0065	0.0043	0.0034	0.0024	0.0011	0.0015	0.0022	0.0019	0.0040	0.0040	0.0388
635	5.9121	0.1140	0.1787	0.2530	0.1704	0.1405	0.1091	0.0538	0.0619	0.0880	0.0946	0.1689	0.1603	1.5931
636	12.5299	0.2460	0.3843	0.5412	0.3583	0.2902	0.2114	0.0962	0.1088	0.1648	0.1954	0.3614	0.3454	3.3036
637	0.0577	0.0012	0.0015	0.0018	0.0013	0.0011	0.0009	0.0003	0.0005	0.0007	0.0005	0.0012	0.0013	0.0122
638	5.3140	0.1051	0.1630	0.2311	0.1545	0.1284	0.0965	0.0463	0.0588	0.0859	0.0853	0.1541	0.1468	1.4557
639	14.0470	0.3001	0.3605	0.4327	0.3169	0.2519	0.1893	0.0762	0.1001	0.1489	0.1721	0.3313	0.3517	3.0317
640	0.1244	0.0026	0.0033	0.0038	0.0028	0.0023	0.0017	0.0007	0.0011	0.0015	0.0011	0.0027	0.0029	0.0266
641	1.0287	0.0224	0.0272	0.0333	0.0238	0.0195	0.0153	0.0068	0.0112	0.0153	0.0116	0.0234	0.0255	0.2353
642	0.0691	0.0014	0.0018	0.0021	0.0015	0.0011	0.0007	0.0002	0.0003	0.0004	0.0003	0.0011	0.0015	0.0124
643	5.2502	0.1144	0.1358	0.1665	0.1194	0.0988	0.0822	0.0357	0.0533	0.0739	0.0670	0.1271	0.1320	1.2060
644	0.6674	0.0144	0.0177	0.0210	0.0151	0.0122	0.0089	0.0036	0.0059	0.0082	0.0064	0.0148	0.0163	0.1445
645	4.0982	0.0877	0.1029	0.1258	0.0932	0.0766	0.0649	0.0304	0.0405	0.0552	0.0550	0.0990	0.1021	0.9333
646	0.1058	0.0024	0.0028	0.0033	0.0023	0.0018	0.0013	0.0005	0.0010	0.0015	0.0014	0.0027	0.0028	0.0239
647	2.9632	0.0642	0.0767	0.0931	0.0677	0.0555	0.0452	0.0191	0.0282	0.0394	0.0357	0.0706	0.0740	0.6692
648	1.4051	0.0305	0.0365	0.0441	0.0317	0.0258	0.0203	0.0081	0.0125	0.0178	0.0168	0.0335	0.0355	0.3132
649	0.0674	0.0015	0.0018	0.0021	0.0015	0.0012	0.0009	0.0004	0.0007	0.0010	0.0009	0.0018	0.0018	0.0155
650	6.3381	0.1123	0.1776	0.2682	0.2053	0.1422	0.0814	0.0357	0.0315	0.0515	0.0888	0.1569	0.1554	1.5069
651	4.8242	0.0968	0.1169	0.1453	0.1148	0.0851	0.0587	0.0226	0.0278	0.0408	0.0510	0.1026	0.1141	0.9764
652	16.2879	0.3400	0.4083	0.4895	0.3656	0.2957	0.2305	0.1013	0.1229	0.1768	0.2098	0.3853	0.4017	3.5274
653	3.0394	0.0645	0.0756	0.0916	0.0685	0.0563	0.0480	0.0231	0.0295	0.0396	0.0426	0.0750	0.0759	0.6901
654	11.9029	0.2524	0.3029	0.3607	0.2685	0.2186	0.1709	0.0726	0.0922	0.1330	0.1514	0.2853	0.2985	2.6070
655	0.0840	0.0019	0.0023	0.0027	0.0018	0.0015	0.0011	0.0005	0.0009	0.0012	0.0011	0.0022	0.0022	0.0195
656	5.1345	0.1082	0.1294	0.1552	0.1163	0.0951	0.0766	0.0342	0.0434	0.0610	0.0683	0.1240	0.1282	1.1399
657	0.0735	0.0016	0.0020	0.0023	0.0017	0.0014	0.0010	0.0004	0.0007	0.0009	0.0007	0.0016	0.0017	0.0159
658	0.0458	0.0010	0.0012	0.0015	0.0011	0.0009	0.0007	0.0003	0.0005	0.0007	0.0005	0.0011	0.0011	0.0108
659	0.0658	0.0014	0.0017	0.0020	0.0015	0.0012	0.0009	0.0004	0.0006	0.0008	0.0006	0.0014	0.0015	0.0140
660	8.5454	0.1839	0.2195	0.2592	0.1920	0.1566	0.1247	0.0534	0.0708	0.1021	0.1108	0.2080	0.2168	1.8979
661	0.0307	0.0006	0.0008	0.0009	0.0007	0.0006	0.0005	0.0002	0.0003	0.0005	0.0003	0.0007	0.0007	0.0069
662	8.8341	0.1891	0.2254	0.2678	0.1990	0.1631	0.1320	0.0588	0.0742	0.1061	0.1181	0.2167	0.2235	1.9739
663	0.5166	0.0111	0.0133	0.0157	0.0118	0.0099	0.0080	0.0035	0.0050	0.0068	0.0065	0.0125	0.0129	0.1170
664	0.0522	0.0010	0.0013	0.0015	0.0011	0.0009	0.0007	0.0002	0.0003	0.0005	0.0004	0.0010	0.0011	0.0100
665	6.5997	0.1410	0.1680	0.2019	0.1484	0.1202	0.0957	0.0404	0.0517	0.0740	0.0810	0.1554	0.1648	1.4426
666	0.0636	0.0012	0.0016	0.0019	0.0014	0.0010	0.0007	0.0001	0.0002	0.0003	0.0002	0.0010	0.0013	0.0110

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
667	0.0706	0.0014	0.0018	0.0021	0.0015	0.0011	0.0007	0.0002	0.0002	0.0003	0.0003	0.0011	0.0015	0.0122
668	1.8870	0.0391	0.0475	0.0563	0.0420	0.0338	0.0254	0.0089	0.0116	0.0168	0.0172	0.0395	0.0449	0.3830
669	7.5329	0.1640	0.1953	0.2297	0.1685	0.1369	0.1076	0.0440	0.0615	0.0888	0.0938	0.1824	0.1921	1.6645
670	5.7881	0.1207	0.1454	0.1733	0.1332	0.1098	0.0873	0.0399	0.0491	0.0679	0.0762	0.1395	0.1431	1.2854
671	0.3355	0.0073	0.0089	0.0106	0.0076	0.0061	0.0046	0.0019	0.0031	0.0043	0.0034	0.0076	0.0082	0.0737
672	0.9395	0.0206	0.0248	0.0294	0.0218	0.0175	0.0126	0.0051	0.0079	0.0115	0.0118	0.0232	0.0243	0.2106
673	7.9997	0.1709	0.2058	0.2420	0.1832	0.1480	0.1111	0.0457	0.0607	0.0871	0.1003	0.1915	0.2030	1.7495
674	0.0497	0.0010	0.0013	0.0015	0.0012	0.0009	0.0004	0.0001	0.0000	0.0001	0.0003	0.0009	0.0011	0.0088
675	0.1866	0.0036	0.0047	0.0055	0.0045	0.0032	0.0017	0.0003	0.0002	0.0006	0.0011	0.0034	0.0043	0.0332
676	5.5909	0.1177	0.1429	0.1710	0.1314	0.1086	0.0832	0.0355	0.0494	0.0697	0.0692	0.1341	0.1384	1.2510
677	0.0398	0.0008	0.0010	0.0011	0.0009	0.0007	0.0004	0.0001	0.0000	0.0001	0.0002	0.0007	0.0009	0.0069
678	0.1595	0.0030	0.0039	0.0046	0.0043	0.0037	0.0024	0.0011	0.0014	0.0020	0.0017	0.0035	0.0035	0.0351
679	0.6001	0.0113	0.0145	0.0182	0.0167	0.0137	0.0087	0.0043	0.0056	0.0075	0.0079	0.0144	0.0134	0.1363
701	0.1254	0.0024	0.0030	0.0037	0.0033	0.0027	0.0018	0.0008	0.0010	0.0014	0.0012	0.0027	0.0028	0.0268
702	0.0799	0.0015	0.0020	0.0024	0.0021	0.0017	0.0011	0.0004	0.0006	0.0009	0.0008	0.0017	0.0018	0.0172
703	0.2377	0.0045	0.0057	0.0072	0.0064	0.0052	0.0033	0.0013	0.0019	0.0027	0.0024	0.0051	0.0054	0.0511
704	0.2098	0.0040	0.0051	0.0063	0.0056	0.0046	0.0029	0.0012	0.0016	0.0024	0.0021	0.0045	0.0048	0.0451
705	1.3627	0.0253	0.0318	0.0402	0.0364	0.0302	0.0208	0.0091	0.0117	0.0164	0.0146	0.0291	0.0302	0.2958
706	0.2602	0.0047	0.0060	0.0074	0.0074	0.0069	0.0049	0.0025	0.0038	0.0049	0.0034	0.0056	0.0053	0.0629
707	0.3074	0.0054	0.0070	0.0087	0.0087	0.0081	0.0060	0.0030	0.0045	0.0057	0.0040	0.0066	0.0063	0.0741
708	1.8884	0.0345	0.0445	0.0543	0.0514	0.0464	0.0328	0.0155	0.0230	0.0303	0.0222	0.0393	0.0389	0.4330
709	0.1895	0.0037	0.0047	0.0056	0.0049	0.0042	0.0031	0.0015	0.0024	0.0032	0.0022	0.0040	0.0040	0.0435
710	1.1343	0.0229	0.0282	0.0338	0.0264	0.0209	0.0146	0.0058	0.0086	0.0123	0.0112	0.0242	0.0264	0.2354
711	0.0620	0.0012	0.0015	0.0018	0.0014	0.0011	0.0008	0.0003	0.0004	0.0005	0.0007	0.0015	0.0015	0.0129
712	2.1799	0.0453	0.0553	0.0658	0.0511	0.0384	0.0251	0.0082	0.0124	0.0186	0.0216	0.0490	0.0541	0.4450
713	2.0642	0.0428	0.0525	0.0621	0.0455	0.0325	0.0201	0.0064	0.0099	0.0154	0.0168	0.0419	0.0491	0.3951
714	0.9506	0.0204	0.0244	0.0287	0.0206	0.0152	0.0106	0.0037	0.0068	0.0096	0.0086	0.0205	0.0233	0.1923
715	1.6470	0.0349	0.0425	0.0502	0.0350	0.0253	0.0162	0.0055	0.0086	0.0137	0.0147	0.0338	0.0400	0.3204
716	0.0265	0.0005	0.0007	0.0008	0.0006	0.0004	0.0002	0.0000	0.0000	0.0001	0.0001	0.0004	0.0006	0.0043
717	0.0813	0.0018	0.0022	0.0026	0.0017	0.0013	0.0009	0.0004	0.0007	0.0010	0.0007	0.0016	0.0020	0.0168
718	0.0364	0.0007	0.0009	0.0010	0.0007	0.0005	0.0003	0.0001	0.0001	0.0002	0.0001	0.0006	0.0008	0.0059
719	3.9405	0.0827	0.1004	0.1188	0.0829	0.0597	0.0394	0.0129	0.0209	0.0324	0.0316	0.0781	0.0945	0.7544
720	2.9784	0.0625	0.0765	0.0898	0.0629	0.0448	0.0273	0.0080	0.0132	0.0215	0.0235	0.0591	0.0715	0.5605
721	0.1524	0.0031	0.0039	0.0045	0.0032	0.0023	0.0014	0.0004	0.0006	0.0010	0.0008	0.0026	0.0034	0.0272

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
722	3.9243	0.0821	0.1002	0.1187	0.0854	0.0617	0.0390	0.0126	0.0202	0.0318	0.0328	0.0793	0.0939	722.00
723	0.0279	0.0006	0.0008	0.0009	0.0006	0.0004	0.0003	0.0001	0.0002	0.0003	0.0002	0.0006	0.0007	723.00
724	0.2535	0.0053	0.0067	0.0081	0.0059	0.0045	0.0032	0.0016	0.0026	0.0037	0.0026	0.0051	0.0058	724.00
725	0.0684	0.0013	0.0017	0.0021	0.0016	0.0014	0.0011	0.0005	0.0008	0.0011	0.0007	0.0014	0.0014	725.00
726	1.3912	0.0299	0.0361	0.0430	0.0315	0.0232	0.0154	0.0057	0.0100	0.0145	0.0136	0.0306	0.0346	726.00
727	3.2773	0.0662	0.0823	0.0988	0.0733	0.0505	0.0288	0.0086	0.0128	0.0209	0.0238	0.0616	0.0759	727.00
728	0.3486	0.0076	0.0092	0.0111	0.0074	0.0054	0.0038	0.0015	0.0027	0.0040	0.0030	0.0069	0.0084	728.00
729	1.9885	0.0396	0.0493	0.0591	0.0457	0.0324	0.0186	0.0056	0.0074	0.0122	0.0160	0.0390	0.0461	729.00
730	13.8867	0.3266	0.4083	0.5045	0.4051	0.3128	0.2046	0.0826	0.0878	0.1553	0.1759	0.3427	0.3893	730.00
731	0.1371	0.0029	0.0036	0.0042	0.0031	0.0024	0.0017	0.0006	0.0009	0.0013	0.0011	0.0028	0.0032	731.00
732	0.0378	0.0007	0.0009	0.0011	0.0008	0.0006	0.0003	0.0001	0.0000	0.0001	0.0001	0.0006	0.0008	732.00
733	0.9503	0.0195	0.0241	0.0289	0.0221	0.0173	0.0119	0.0042	0.0056	0.0083	0.0088	0.0202	0.0226	733.00
734	1.1721	0.0246	0.0299	0.0358	0.0272	0.0216	0.0158	0.0065	0.0080	0.0120	0.0143	0.0272	0.0289	734.00
735	0.1015	0.0022	0.0027	0.0031	0.0023	0.0020	0.0015	0.0007	0.0009	0.0012	0.0013	0.0026	0.0026	735.00
736	9.8639	0.2048	0.2463	0.2948	0.2282	0.1776	0.1260	0.0486	0.0601	0.0890	0.1064	0.2192	0.2390	736.00
737	0.1350	0.0029	0.0036	0.0043	0.0031	0.0025	0.0019	0.0009	0.0014	0.0020	0.0014	0.0030	0.0033	737.00
738	2.7769	0.0668	0.0836	0.1031	0.0815	0.0622	0.0389	0.0161	0.0195	0.0343	0.0367	0.0704	0.0796	738.00
739	4.5566	0.1100	0.1360	0.1676	0.1322	0.1036	0.0708	0.0304	0.0356	0.0601	0.0614	0.1179	0.1314	739.00
740	0.0420	0.0008	0.0010	0.0012	0.0009	0.0008	0.0006	0.0003	0.0004	0.0005	0.0004	0.0009	0.0010	740.00
741	1.3845	0.0327	0.0411	0.0507	0.0416	0.0324	0.0217	0.0089	0.0103	0.0172	0.0174	0.0346	0.0390	741.00
742	3.0189	0.0714	0.0900	0.1111	0.0910	0.0709	0.0461	0.0197	0.0228	0.0388	0.0423	0.0790	0.0863	742.00
743	0.3395	0.0080	0.0101	0.0126	0.0100	0.0079	0.0057	0.0026	0.0032	0.0051	0.0046	0.0087	0.0095	743.00
744	0.0668	0.0016	0.0020	0.0025	0.0020	0.0016	0.0011	0.0005	0.0007	0.0011	0.0008	0.0016	0.0018	744.00
745	0.0587	0.0013	0.0017	0.0022	0.0017	0.0013	0.0009	0.0004	0.0005	0.0007	0.0006	0.0013	0.0015	745.00
746	2.7704	0.0649	0.0738	0.1007	0.0794	0.0644	0.0421	0.0185	0.0199	0.0336	0.0379	0.0694	0.0788	0.6834
747	1.2664	0.0289	0.0330	0.0457	0.0370	0.0294	0.0181	0.0073	0.0072	0.0128	0.0162	0.0299	0.0351	0.3006
748	4.2834	0.1057	0.1186	0.1601	0.1194	0.0917	0.0533	0.0218	0.0284	0.0482	0.0499	0.1026	0.1248	1.0245
749	7.1426	0.1158	0.1406	0.1893	0.1488	0.1113	0.0717	0.0725	0.0409	0.1046	0.0989	0.1710	0.1583	1.4238
750	4.4702	0.0655	0.0832	0.1158	0.0989	0.0733	0.0422	0.0378	0.0186	0.0512	0.0613	0.1004	0.0909	0.8389
751	0.1943	0.0031	0.0038	0.0050	0.0040	0.0032	0.0022	0.0022	0.0013	0.0032	0.0031	0.0049	0.0043	0.0403
752	3.9813	0.0596	0.0747	0.1032	0.0876	0.0656	0.0377	0.0346	0.0176	0.0487	0.0549	0.0918	0.0830	0.7591
753	1.8866	0.0281	0.0347	0.0478	0.0406	0.0326	0.0203	0.0173	0.0087	0.0238	0.0274	0.0441	0.0396	0.3649
754	2.1167	0.0309	0.0383	0.0543	0.0467	0.0355	0.0203	0.0172	0.0084	0.0236	0.0311	0.0492	0.0436	0.3989
755	0.1806	0.0030	0.0036	0.0049	0.0038	0.0027	0.0019	0.0020	0.0013	0.0030	0.0027	0.0045	0.0041	0.0375

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
756	0.9717	0.0125	0.0165	0.0240	0.0229	0.0169	0.0084	0.0062	0.0025	0.0078	0.0112	0.0196	0.0179	0.1664
757	1.6273	0.0214	0.0276	0.0410	0.0379	0.0287	0.0156	0.0122	0.0057	0.0155	0.0210	0.0346	0.0305	0.2917
758	0.1636	0.0024	0.0031	0.0042	0.0032	0.0024	0.0015	0.0012	0.0005	0.0016	0.0016	0.0032	0.0032	0.0282
759	0.6767	0.0085	0.0116	0.0169	0.0157	0.0109	0.0053	0.0036	0.0010	0.0041	0.0062	0.0124	0.0119	0.1082
760	1.6425	0.0194	0.0259	0.0406	0.0403	0.0303	0.0147	0.0105	0.0044	0.0121	0.0196	0.0328	0.0283	0.2789
761	5.4201	0.0806	0.1003	0.1400	0.1168	0.0932	0.0580	0.0510	0.0272	0.0702	0.0769	0.1252	0.1123	1.0517
762	0.0473	0.0007	0.0009	0.0012	0.0010	0.0007	0.0004	0.0003	0.0002	0.0005	0.0005	0.0009	0.0009	0.0083
763	0.9776	0.0140	0.0177	0.0257	0.0217	0.0158	0.0088	0.0077	0.0038	0.0105	0.0131	0.0217	0.0197	0.1802
764	0.0327	0.0005	0.0006	0.0008	0.0007	0.0006	0.0005	0.0004	0.0002	0.0005	0.0005	0.0008	0.0007	0.0068
801	0.1899	0.0027	0.0035	0.0048	0.0046	0.0043	0.0027	0.0028	0.0017	0.0036	0.0035	0.0051	0.0039	0.0433
802	0.1652	0.0024	0.0030	0.0042	0.0040	0.0038	0.0024	0.0024	0.0015	0.0031	0.0031	0.0044	0.0034	0.0377
803	0.0207	0.0002	0.0003	0.0005	0.0005	0.0005	0.0004	0.0004	0.0002	0.0004	0.0003	0.0005	0.0003	0.0046
804	0.1544	0.0021	0.0028	0.0039	0.0038	0.0038	0.0024	0.0025	0.0016	0.0032	0.0028	0.0040	0.0030	0.0360
805	0.4573	0.0055	0.0077	0.0108	0.0105	0.0099	0.0070	0.0068	0.0045	0.0086	0.0063	0.0092	0.0074	0.0944
806	0.0286	0.0004	0.0005	0.0008	0.0008	0.0006	0.0004	0.0004	0.0002	0.0005	0.0005	0.0008	0.0006	0.0065
807	4.6905	0.0518	0.0766	0.1051	0.0820	0.0697	0.0410	0.0338	0.0165	0.0410	0.0270	0.0585	0.0631	0.6661
808	0.0318	0.0004	0.0005	0.0008	0.0008	0.0008	0.0005	0.0005	0.0003	0.0007	0.0004	0.0006	0.0005	0.0068
809	0.0208	0.0003	0.0004	0.0006	0.0006	0.0005	0.0004	0.0004	0.0003	0.0006	0.0004	0.0006	0.0004	0.0054
810	0.2197	0.0034	0.0042	0.0058	0.0049	0.0044	0.0030	0.0031	0.0021	0.0044	0.0037	0.0053	0.0045	0.0487
811	3.6146	0.0574	0.0693	0.0955	0.0754	0.0597	0.0375	0.0356	0.0199	0.0512	0.0562	0.0889	0.0801	0.7267
812	4.5811	0.0713	0.0877	0.1194	0.0968	0.0797	0.0514	0.0475	0.0269	0.0669	0.0707	0.1110	0.0991	0.9284
813	0.0763	0.0010	0.0014	0.0019	0.0017	0.0014	0.0009	0.0009	0.0005	0.0012	0.0009	0.0014	0.0013	0.0146
814	4.3673	0.0696	0.0838	0.1142	0.0903	0.0738	0.0489	0.0458	0.0261	0.0659	0.0641	0.1047	0.0949	0.8821
815	0.0444	0.0006	0.0008	0.0012	0.0009	0.0006	0.0003	0.0003	0.0001	0.0003	0.0003	0.0007	0.0008	0.0069
816	0.6943	0.0110	0.0133	0.0187	0.0148	0.0123	0.0084	0.0084	0.0053	0.0121	0.0105	0.0166	0.0147	0.1462
817	0.1234	0.0018	0.0023	0.0033	0.0025	0.0021	0.0013	0.0012	0.0006	0.0016	0.0014	0.0025	0.0025	0.0232
818	2.1621	0.0340	0.0418	0.0576	0.0458	0.0365	0.0234	0.0229	0.0131	0.0323	0.0309	0.0515	0.0466	0.4363
819	0.1383	0.0020	0.0026	0.0036	0.0029	0.0023	0.0015	0.0014	0.0008	0.0019	0.0016	0.0028	0.0027	0.0260
820	0.109	0.0016	0.0021	0.0029	0.0023	0.0019	0.0012	0.0012	0.0007	0.0016	0.0012	0.0022	0.0020	0.0209
821	7.7087	0.1194	0.1461	0.1995	0.1607	0.1331	0.0892	0.0808	0.0445	0.1107	0.1136	0.1824	0.1639	1.5440
822	0.0462	0.0006	0.0009	0.0012	0.0009	0.0007	0.0004	0.0004	0.0001	0.0004	0.0003	0.0008	0.0008	0.0075
823	2.7867	0.0427	0.0527	0.0718	0.0573	0.0476	0.0321	0.0285	0.0151	0.0393	0.0383	0.0640	0.0585	0.5481
824	2.7875	0.0425	0.0520	0.0712	0.0574	0.0483	0.0349	0.0319	0.0175	0.0423	0.0410	0.0650	0.0580	0.5620
825	0.0888	0.0013	0.0017	0.0023	0.0019	0.0015	0.0010	0.0010	0.0006	0.0014	0.0011	0.0019	0.0018	0.0176
826	7.625	0.1238	0.1494	0.2018	0.1582	0.1261	0.0808	0.0803	0.0459	0.1166	0.1157	0.1873	0.1695	1.5554

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
827	0.0354	0.0005	0.0006	0.0009	0.0007	0.0006	0.0004	0.0004	0.0002	0.0005	0.0004	0.0007	0.0006	0.0065
828	0.0299	0.0004	0.0005	0.0007	0.0006	0.0005	0.0004	0.0003	0.0002	0.0004	0.0003	0.0006	0.0005	0.0054
829	0.0974	0.0014	0.0018	0.0026	0.0020	0.0017	0.0012	0.0011	0.0006	0.0014	0.0012	0.0020	0.0019	0.0189
830	2.6253	0.0414	0.0494	0.0694	0.0552	0.0465	0.0327	0.0303	0.0177	0.0422	0.0410	0.0630	0.0556	0.5444
831	0.2743	0.0045	0.0053	0.0074	0.0058	0.0048	0.0033	0.0034	0.0021	0.0049	0.0041	0.0066	0.0058	0.0580
832	0.1364	0.0021	0.0026	0.0036	0.0028	0.0024	0.0017	0.0016	0.0010	0.0022	0.0019	0.0031	0.0028	0.0279
833	4.9042	0.0772	0.0935	0.1274	0.1016	0.0846	0.0577	0.0529	0.0296	0.0737	0.0761	0.1186	0.1058	0.9987
834	0.0303	0.0005	0.0005	0.0006	0.0006	0.0005	0.0004	0.0003	0.0002	0.0004	0.0004	0.0006	0.0006	0.0054
835	0.0645	0.0011	0.0012	0.0014	0.0013	0.0010	0.0006	0.0005	0.0003	0.0007	0.0005	0.0011	0.0013	0.0111
836	2.188	0.0386	0.0397	0.0485	0.0431	0.0368	0.0250	0.0223	0.0129	0.0315	0.0292	0.0489	0.0500	0.4265
837	0.0337	0.0005	0.0006	0.0007	0.0006	0.0005	0.0003	0.0003	0.0001	0.0004	0.0003	0.0006	0.0006	0.0056
838	0.0239	0.0004	0.0004	0.0005	0.0005	0.0003	0.0002	0.0001	0.0000	0.0002	0.0001	0.0003	0.0004	0.0035
839	3.3264	0.0596	0.0613	0.0738	0.0646	0.0543	0.0363	0.0325	0.0186	0.0472	0.0472	0.0772	0.0779	0.6504
840	1.0502	0.0184	0.0191	0.0234	0.0208	0.0178	0.0123	0.0110	0.0066	0.0155	0.0137	0.0230	0.0236	0.2053
841	0.1102	0.0021	0.0025	0.0022	0.0018	0.0012	0.0011	0.0007	0.0016	0.0013	0.0022	0.0025	0.0020	0.0212
842	0.1308	0.0023	0.0025	0.0030	0.0027	0.0022	0.0014	0.0014	0.0009	0.0021	0.0016	0.0029	0.0030	0.0259
843	6.8981	0.1260	0.1303	0.1557	0.1358	0.1106	0.0699	0.0688	0.0409	0.1014	0.0997	0.1635	0.1648	1.3676
844	0.0754	0.0013	0.0014	0.0017	0.0016	0.0013	0.0009	0.0010	0.0006	0.0013	0.0010	0.0017	0.0017	0.0155
845	0.0213	0.0004	0.0004	0.0005	0.0004	0.0004	0.0003	0.0003	0.0002	0.0004	0.0003	0.0005	0.0005	0.0044
846	0.0254	0.0004	0.0004	0.0005	0.0006	0.0005	0.0004	0.0004	0.0003	0.0005	0.0004	0.0005	0.0005	0.0053
847	0.2893	0.0053	0.0055	0.0066	0.0056	0.0048	0.0030	0.0031	0.0021	0.0048	0.0044	0.0069	0.0069	0.0591
848	2.7345	0.0483	0.0494	0.0610	0.0550	0.0474	0.0330	0.0300	0.0181	0.0420	0.0399	0.0642	0.0633	0.5516
849	1.6469	0.0288	0.0295	0.0365	0.0331	0.0290	0.0209	0.0190	0.0115	0.0261	0.0252	0.0391	0.0379	0.3366
850	0.2326	0.0043	0.0045	0.0055	0.0047	0.0036	0.0025	0.0028	0.0018	0.0040	0.0032	0.0054	0.0055	0.0479
851	0.2326	0.0043	0.0045	0.0055	0.0047	0.0036	0.0025	0.0028	0.0019	0.0040	0.0032	0.0054	0.0055	0.0479
852	5.4305	0.0970	0.1004	0.1203	0.1074	0.0909	0.0593	0.0540	0.0313	0.0780	0.0753	0.1251	0.1269	1.0659
853	5.3264	0.0950	0.0973	0.1188	0.1054	0.0902	0.0624	0.0572	0.0337	0.0800	0.0750	0.1234	0.1238	1.0620
854	0.0267	0.0004	0.0005	0.0006	0.0005	0.0005	0.0003	0.0003	0.0002	0.0004	0.0003	0.0005	0.0005	0.0052
855	0.1517	0.0026	0.0027	0.0034	0.0031	0.0027	0.0019	0.0019	0.0012	0.0026	0.0020	0.0033	0.0033	0.0306
856	0.0258	0.0004	0.0005	0.0005	0.0005	0.0004	0.0003	0.0003	0.0001	0.0003	0.0003	0.0005	0.0005	0.0046
857	0.995	0.0180	0.0187	0.0227	0.0197	0.0173	0.0117	0.0113	0.0071	0.0163	0.0144	0.0234	0.0232	0.2038
858	0.0328	0.0005	0.0006	0.0007	0.0006	0.0005	0.0004	0.0004	0.0002	0.0005	0.0004	0.0006	0.0007	0.0060
859	3.4439	0.0606	0.0620	0.0758	0.0667	0.0578	0.0425	0.0390	0.0224	0.0524	0.0515	0.0801	0.0790	0.6899
860	0.0367	0.0006	0.0006	0.0008	0.0007	0.0006	0.0005	0.0004	0.0002	0.0005	0.0004	0.0007	0.0007	0.0068
861	3.0772	0.0548	0.0560	0.0689	0.0613	0.0544	0.0395	0.0358	0.0217	0.0494	0.0462	0.0731	0.0714	0.6326

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
862	0.0597	0.0010	0.0011	0.0013	0.0011	0.0010	0.0007	0.0007	0.0004	0.0009	0.0008	0.0013	0.0013	0.0117
863	0.2171	0.0039	0.0041	0.0050	0.0043	0.0035	0.0023	0.0025	0.0016	0.0035	0.0028	0.0048	0.0050	0.0434
864	0.1687	0.0031	0.0032	0.0039	0.0034	0.0029	0.0019	0.0019	0.0012	0.0028	0.0023	0.0038	0.0039	0.0342
865	0.0255	0.0005	0.0005	0.0006	0.0005	0.0004	0.0003	0.0003	0.0002	0.0004	0.0003	0.0006	0.0006	0.0051
866	0.0995	0.0018	0.0019	0.0023	0.0020	0.0017	0.0011	0.0011	0.0007	0.0016	0.0013	0.0022	0.0023	0.0199
867	7.0547	0.1259	0.1291	0.1567	0.1397	0.1207	0.0834	0.0756	0.0441	0.1058	0.1003	0.1647	0.1647	1.4106
868	0.0592	0.0010	0.0011	0.0013	0.0011	0.0010	0.0007	0.0007	0.0004	0.0009	0.0008	0.0013	0.0013	0.0116
869	0.2172	0.0039	0.0041	0.0050	0.0043	0.0035	0.0023	0.0025	0.0016	0.0035	0.0028	0.0048	0.0050	0.0434
870	0.1687	0.0031	0.0032	0.0039	0.0034	0.0029	0.0019	0.0019	0.0012	0.0028	0.0023	0.0038	0.0039	0.0342
871	0.0997	0.0018	0.0019	0.0023	0.0020	0.0017	0.0011	0.0011	0.0007	0.0016	0.0013	0.0022	0.0023	0.0200
872	7.1256	0.1274	0.1306	0.1584	0.1412	0.1218	0.0838	0.0761	0.0446	0.1068	0.1011	0.1664	0.1666	1.4247
873	25.8389	0.4581	0.4750	0.5684	0.5078	0.4264	0.2806	0.2511	0.1424	0.3559	0.3535	0.5840	0.5988	5.0021
874	0.114	0.0020	0.0021	0.0025	0.0022	0.0019	0.0014	0.0013	0.0008	0.0018	0.0015	0.0024	0.0025	0.0224
875	0.0854	0.0015	0.0016	0.0019	0.0016	0.0014	0.0010	0.0009	0.0006	0.0013	0.0011	0.0019	0.0019	0.0167
876	0.4446	0.0082	0.0086	0.0102	0.0084	0.0071	0.0047	0.0046	0.0027	0.0066	0.0064	0.0104	0.0106	0.0885
877	5.2953	0.0963	0.0995	0.1194	0.1035	0.0843	0.0528	0.0494	0.0282	0.0728	0.0759	0.1253	0.1272	1.0346
878	4.0376	0.0722	0.0741	0.0897	0.0779	0.0652	0.0442	0.0381	0.0214	0.0550	0.0599	0.0952	0.0954	0.7883
879	0.0701	0.0013	0.0013	0.0016	0.0014	0.0011	0.0008	0.0008	0.0005	0.0012	0.0009	0.0016	0.0017	0.0142
880	6.7158	0.1211	0.1243	0.1488	0.1279	0.1105	0.0772	0.0672	0.0378	0.0956	0.0992	0.1586	0.1589	1.3271
881	0.0457	0.0008	0.0009	0.0011	0.0010	0.0008	0.0006	0.0006	0.0004	0.0008	0.0006	0.0010	0.0010	0.0095
882	0.2844	0.0050	0.0054	0.0067	0.0060	0.0047	0.0035	0.0039	0.0026	0.0053	0.0037	0.0063	0.0064	0.0596
883	0.2902	0.0063	0.0064	0.0067	0.0059	0.0064	0.0052	0.0050	0.0030	0.0059	0.0046	0.0070	0.0071	0.0695
884	9.0634	0.2132	0.2037	0.2066	0.1580	0.1766	0.1479	0.1374	0.0784	0.1434	0.1314	0.2144	0.2469	2.0580
885	0.1466	0.0032	0.0032	0.0034	0.0029	0.0033	0.0027	0.0026	0.0015	0.0029	0.0023	0.0036	0.0037	0.0353
886	8.7433	0.2059	0.1975	0.2003	0.1522	0.1704	0.1417	0.1324	0.0764	0.1421	0.1286	0.2077	0.2377	1.9929
887	1.2169	0.0277	0.0267	0.0276	0.0221	0.0248	0.0208	0.0194	0.0111	0.0200	0.0176	0.0288	0.0323	0.2789
888	11.4533	0.2684	0.2565	0.2612	0.2047	0.2298	0.1921	0.1822	0.1080	0.1954	0.1753	0.2790	0.3129	2.6653
889	0.8397	0.0195	0.0187	0.0190	0.0152	0.0172	0.0143	0.0137	0.0079	0.0141	0.0123	0.0200	0.0225	0.1942
890	18.5665	0.4375	0.4188	0.4246	0.3242	0.3638	0.3018	0.2853	0.1640	0.3052	0.2718	0.4412	0.5036	4.2418
891	0.089	0.0016	0.0018	0.0020	0.0021	0.0025	0.0020	0.0020	0.0013	0.0022	0.0016	0.0022	0.0019	0.0232
892	0.3537	0.0079	0.0078	0.0081	0.0069	0.0077	0.0062	0.0061	0.0036	0.0068	0.0055	0.0086	0.0090	0.0841
893	0.068	0.0012	0.0013	0.0015	0.0016	0.0019	0.0016	0.0015	0.0010	0.0017	0.0012	0.0017	0.0014	0.0178
894	0.0772	0.0014	0.0015	0.0017	0.0018	0.0021	0.0016	0.0016	0.0010	0.0017	0.0012	0.0018	0.0016	0.0190

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
895	7.0878	0.1600	0.1550	0.1620	0.1282	0.1424	0.1194	0.1104	0.0633	0.1127	0.0974	0.1627	0.1858	1.5994
896	26.4622	0.5806	0.5984	0.5291	0.4674	0.5006	0.4452	0.3768	0.2785	0.3799	0.3785	0.5884	0.6721	5.7954
897	31.2861	0.6879	0.7089	0.6308	0.5272	0.5648	0.4944	0.4080	0.2962	0.3996	0.4112	0.6620	0.7849	6.5759
898	16.0349	0.2746	0.2709	0.2690	0.3352	0.3760	0.2878	0.2082	0.1272	0.1423	0.1689	0.2871	0.3327	3.0799
899	6.2358	0.1215	0.1223	0.1145	0.1214	0.1340	0.1081	0.0848	0.0570	0.0719	0.0779	0.1244	0.1428	1.2805

Table AG.3: Total baseflow (mm over watershed) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Baseflow (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	14.75	6.59	13.98	44.67	29.72	11.15	2.30	0.66	1.10	8.98	30.25	30.50	194.66
602	0.2196	13.57	5.06	10.95	41.13	24.89	8.45	1.81	0.67	0.73	5.36	25.45	28.12	166.19
603	0.3655	13.71	5.04	9.65	39.22	28.87	10.38	3.39	1.68	2.43	12.74	32.09	29.80	188.98
604	0.7529	14.16	5.21	9.91	39.74	32.38	13.00	4.08	2.08	3.20	16.71	36.39	31.43	208.28
605	3.2117	13.66	5.11	11.23	42.68	30.62	14.26	3.59	0.62	0.75	9.60	31.22	29.32	192.67
606	0.1626	13.64	5.08	11.28	39.94	22.58	8.07	2.07	0.80	0.91	5.44	25.75	28.28	163.85
607	14.1530	14.80	5.46	9.84	42.97	38.51	17.59	6.64	3.67	5.31	20.10	40.07	33.71	238.66
608	27.4480	16.51	6.47	12.82	47.47	40.66	22.85	9.46	4.22	6.30	24.49	45.47	36.34	273.06
609	10.9853	16.19	6.39	12.67	47.98	43.05	23.81	9.97	5.83	8.64	28.13	47.06	36.12	285.83
610	14.7211	16.70	6.67	13.97	48.66	39.23	20.14	7.65	4.00	6.26	23.75	45.02	36.70	268.75
611	26.6505	15.68	6.20	12.12	46.04	37.76	22.14	9.77	4.54	5.77	23.42	42.85	34.42	260.72
612	11.2644	16.54	6.58	13.48	48.43	39.67	21.53	8.59	4.72	7.10	25.59	45.84	36.64	274.72
613	0.2886	11.60	4.66	9.64	33.75	24.50	9.71	2.33	0.60	0.86	4.81	21.10	23.07	146.63
614	1.3068	14.04	5.24	10.79	41.49	28.44	10.62	2.47	1.05	1.66	10.08	30.79	29.95	186.60
615	0.1323	11.85	4.41	9.61	36.74	24.79	7.82	0.93	0.00	0.00	2.65	20.11	24.31	143.22
616	6.6770	16.61	6.77	13.73	48.05	39.36	23.67	11.07	5.35	7.01	25.80	44.87	35.99	278.28
617	6.6685	15.73	6.23	12.61	46.87	38.68	20.88	7.23	3.13	5.49	22.80	42.72	34.97	257.35
618	23.0036	16.86	6.81	13.97	48.02	37.93	18.56	6.74	3.86	6.61	25.56	45.56	37.05	267.54
619	3.0191	14.61	5.46	11.25	42.67	34.14	19.13	7.09	2.35	3.26	17.83	37.95	32.25	228.01
620	8.1604	15.86	6.38	13.33	46.45	37.63	22.46	10.20	4.53	6.14	23.43	42.45	34.42	263.27
621	0.3152	13.75	5.25	11.03	39.87	27.36	9.78	1.99	0.20	0.26	7.29	29.34	29.24	175.35
622	1.1440	14.44	5.40	11.52	41.45	27.12	9.38	1.75	0.14	0.50	9.28	32.12	30.78	183.88
623	1.8901	15.34	5.90	12.79	43.86	30.59	13.96	3.03	0.41	1.23	13.15	36.41	32.92	209.59
624	12.2594	15.76	5.84	11.62	44.22	31.01	12.07	4.44	1.90	2.96	16.22	40.11	34.53	220.67
625	15.6152	15.95	6.13	12.52	46.31	38.17	21.25	8.27	3.84	6.06	23.79	44.02	35.42	261.72
626	0.7993	13.93	5.18	11.11	42.99	29.40	10.83	1.96	0.37	0.67	9.13	30.87	30.09	186.52
627	0.1828	13.81	5.12	11.07	43.38	29.19	10.54	2.38	0.51	0.62	8.60	30.07	30.05	185.35
628	7.4942	15.57	5.91	11.90	45.22	36.48	19.70	6.93	2.75	4.52	21.34	42.11	34.55	246.98
629	0.1004	13.44	5.00	10.06	38.74	29.08	11.21	2.00	0.32	0.96	10.91	30.67	29.06	181.46
630	3.7583	15.47	5.76	11.58	45.00	35.55	20.75	8.04	2.83	4.51	22.67	42.69	34.68	249.53
631	0.0635	15.44	5.81	11.61	42.72	30.77	11.84	3.16	0.90	2.16	17.17	39.33	34.09	215.00
632	13.3844	16.52	6.32	13.13	46.98	36.39	19.14	6.60	2.87	5.01	22.08	43.42	36.03	254.51
633	0.5487	13.47	4.99	10.65	42.65	31.97	15.11	3.80	0.50	0.76	9.79	31.22	29.27	194.17

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	13.51	5.01	10.52	40.07	27.37	9.66	1.85	0.12	0.17	7.02	28.91	28.69	172.89
635	5.9121	15.05	5.59	11.51	45.30	35.57	20.66	8.28	2.96	4.14	20.16	40.55	33.46	243.23
636	12.5299	16.52	6.42	13.16	47.76	39.29	21.73	8.31	3.66	5.94	24.44	45.24	36.29	268.76
637	0.0577	12.97	6.21	14.81	31.40	24.09	11.44	2.51	0.22	0.05	4.02	21.28	25.53	154.52
638	5.3140	14.86	5.59	11.72	43.05	33.16	16.72	4.98	1.69	3.07	16.55	38.01	32.53	221.92
639	14.0470	18.63	8.94	21.29	40.76	32.16	17.65	6.35	2.40	4.97	20.56	39.72	36.02	249.44
640	0.1244	13.26	5.80	13.93	32.74	24.46	9.60	1.66	0.11	0.42	4.75	22.54	25.88	155.14
641	1.0287	14.35	6.93	17.47	32.46	21.72	7.77	0.80	0.08	0.25	4.53	23.12	28.05	157.52
642	0.0691	9.96	4.26	9.28	28.21	24.08	8.48	1.54	0.26	0.32	2.82	14.03	20.22	123.46
643	5.2502	15.94	7.31	18.72	35.48	25.64	13.76	3.95	0.84	2.00	12.82	32.19	31.40	200.05
644	0.6674	14.02	6.31	15.08	32.71	23.75	8.34	1.13	0.01	0.10	5.16	24.24	27.51	158.35
645	4.0982	16.01	6.90	17.46	37.15	27.80	16.51	7.07	2.22	3.51	17.32	35.31	32.41	219.68
646	0.1058	18.07	8.32	20.28	35.93	24.94	9.40	1.78	0.72	2.45	16.16	38.74	35.94	212.73
647	2.9632	15.59	7.04	17.76	35.72	26.34	13.84	3.76	0.57	1.46	12.01	31.80	31.10	196.97
648	1.4051	16.14	7.34	17.97	35.82	27.36	14.25	3.59	0.51	1.89	13.71	33.88	32.61	205.05
649	0.0674	18.04	8.33	20.39	35.92	25.03	9.86	2.03	0.82	2.63	16.44	38.72	35.88	214.09
650	6.3381	24.53	18.28	37.08	67.67	51.71	25.79	12.25	7.54	11.60	33.21	51.83	44.58	386.08
651	4.8242	23.44	16.28	31.50	48.22	35.48	18.67	6.80	2.88	5.08	19.39	38.94	39.18	285.86
652	16.2879	18.16	8.46	20.02	40.44	33.50	20.07	9.00	4.05	6.44	23.18	41.15	36.23	260.71
653	3.0394	16.42	6.83	17.62	38.72	29.99	18.91	9.31	3.77	5.35	21.92	39.25	33.64	241.75
654	11.9029	17.34	7.77	18.56	39.39	32.91	19.29	7.89	3.20	5.58	21.63	40.03	35.30	248.91
655	0.0840	17.50	8.09	20.02	34.93	22.53	8.22	1.70	0.42	1.84	13.52	35.83	34.45	199.06
656	5.1345	16.80	7.37	17.98	38.76	32.06	19.36	8.44	3.56	5.75	22.02	39.53	34.47	246.10
657	0.0735	13.46	6.42	15.14	31.63	23.06	8.28	1.28	0.05	0.00	3.30	21.27	26.51	150.41
658	0.0458	14.55	7.09	17.94	32.68	21.58	8.79	0.90	0.00	0.00	4.25	23.34	27.93	159.03
659	0.0658	13.34	6.36	14.99	31.57	24.77	11.13	2.06	0.20	0.01	4.40	22.35	26.65	157.83
660	8.5454	17.50	7.64	18.48	39.23	31.42	18.29	7.23	2.90	5.34	20.89	39.57	35.55	244.03
661	0.0307	14.15	6.84	17.02	32.27	22.41	9.19	1.51	0.31	0.26	4.29	23.15	27.46	158.87
662	8.8341	17.51	7.66	18.92	39.75	32.06	19.30	8.44	3.47	5.73	22.24	40.65	35.75	251.48
663	0.5166	15.24	6.15	15.41	36.84	28.74	15.39	5.16	1.64	2.76	15.17	33.36	30.92	206.79
664	0.0522	12.49	5.75	12.53	31.19	26.60	12.76	3.29	0.48	0.57	5.47	22.17	25.05	158.35
665	6.5997	16.76	7.34	18.33	38.69	30.63	17.62	7.02	2.29	4.11	18.90	37.20	33.63	232.53
666	0.0636	9.82	4.18	8.18	28.16	26.93	10.89	1.95	0.12	0.00	1.98	14.24	20.35	126.80
667	0.0706	9.62	4.01	8.09	27.80	25.23	9.51	2.02	0.20	0.17	2.04	13.37	20.00	122.04
668	1.8870	13.80	5.74	13.11	34.43	29.73	15.59	4.86	1.12	1.93	11.83	28.91	28.36	189.42

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	17.34	7.39	18.34	39.00	30.41	16.87	5.81	2.11	4.36	18.97	38.28	34.98	233.85
670	5.7881	16.92	7.55	17.62	39.69	34.10	20.51	9.52	4.43	6.57	22.50	40.11	34.74	254.23
671	0.3355	14.48	6.72	16.24	32.85	23.84	9.12	1.61	0.30	0.41	6.49	25.70	28.56	166.30
672	0.9395	15.57	6.52	16.46	37.62	29.62	12.80	3.41	1.33	3.07	17.26	36.56	32.61	212.83
673	7.9997	17.71	8.03	18.19	40.59	34.45	19.28	7.54	4.00	6.70	22.22	40.80	36.24	255.75
674	0.0497	11.46	4.22	7.15	36.01	37.49	15.13	3.36	0.45	0.55	10.59	29.47	28.13	184.00
675	0.1866	11.61	4.32	7.53	36.32	37.40	15.30	3.59	0.64	0.84	11.17	29.95	28.42	187.10
676	5.5909	16.31	7.70	17.59	38.04	31.74	16.85	5.57	2.13	3.82	16.46	35.70	32.95	224.84
677	0.0398	11.11	4.09	7.10	35.64	37.96	16.68	3.53	0.60	0.56	10.15	28.30	27.29	183.03
678	0.1595	10.45	4.50	8.98	37.93	36.77	13.84	3.30	0.52	1.03	7.87	24.78	24.26	174.22
679	0.6001	16.85	10.75	22.21	44.64	39.73	15.60	5.60	2.18	3.31	16.52	35.09	29.77	242.24
701	0.1254	10.20	4.43	11.16	34.39	34.84	15.39	4.23	0.16	0.93	8.14	24.96	23.35	172.18
702	0.0799	10.10	4.42	11.17	34.08	33.49	12.19	1.92	0.05	0.59	7.00	23.40	23.23	161.62
703	0.2377	10.13	4.43	11.14	34.25	34.45	13.35	2.75	0.04	0.69	7.48	24.02	23.30	166.02
704	0.2098	10.14	4.42	11.14	34.25	34.53	13.49	2.87	0.04	0.70	7.52	24.12	23.30	166.51
705	1.3627	9.80	4.19	10.51	34.61	34.78	15.79	4.92	0.48	1.00	8.36	24.18	22.67	171.31
706	0.2602	7.18	2.68	6.42	35.21	33.27	10.51	1.05	0.09	0.07	1.45	12.34	16.67	126.91
707	0.3074	7.12	2.64	6.31	35.35	34.06	12.48	1.94	0.06	0.02	1.73	13.09	17.09	131.89
708	1.8884	8.30	3.34	7.90	34.24	33.18	11.89	1.96	0.07	0.21	3.17	14.86	17.91	137.03
709	0.1895	9.99	4.42	11.31	34.27	27.48	9.20	1.39	0.17	0.34	2.93	15.48	20.56	137.53
710	1.1343	13.17	5.38	13.35	35.08	29.16	12.49	3.26	0.76	1.35	10.07	28.02	27.74	179.82
711	0.0620	15.10	6.23	11.88	36.39	37.57	20.85	8.78	4.18	5.44	21.40	41.55	34.41	243.78
712	2.1799	14.73	5.80	13.00	36.67	33.15	15.41	4.28	2.14	3.26	16.37	36.18	32.48	213.48
713	2.0642	16.66	7.83	18.08	38.54	28.65	11.63	2.85	0.76	1.74	11.73	31.75	32.44	202.66
714	0.9506	15.11	6.04	15.14	35.55	24.47	9.53	1.64	0.25	0.85	9.12	28.96	30.20	176.85
715	1.6470	17.31	7.88	19.46	38.08	26.29	10.68	2.64	0.83	1.93	12.28	31.72	33.86	202.97
716	0.0265	10.75	4.86	8.25	28.78	26.87	10.24	1.83	0.00	0.00	2.71	18.66	22.91	135.86
717	0.0813	14.46	6.99	17.29	31.38	17.22	2.98	0.01	0.00	0.00	1.59	18.11	27.45	137.50
718	0.0364	11.26	5.13	9.68	29.43	26.02	10.01	2.29	0.44	0.50	4.47	20.35	23.61	143.19
719	3.9405	16.00	7.33	17.31	35.56	24.90	10.45	2.69	0.52	0.89	8.90	28.28	31.68	184.51
720	2.9784	17.39	8.30	19.49	38.10	27.10	10.89	2.40	0.55	1.36	10.92	30.86	33.37	200.74
721	0.1524	11.71	5.05	10.56	30.14	23.96	7.78	1.02	0.23	0.30	2.92	18.09	23.42	135.17
722	3.9243	16.35	7.57	17.81	37.29	26.78	10.54	2.38	0.56	1.43	10.29	29.51	31.83	192.34
723	0.0279	14.40	6.98	17.35	31.40	18.32	5.18	0.12	0.00	0.00	1.73	18.88	27.56	141.93
724	0.2535	12.48	6.26	15.68	31.35	17.83	2.93	0.02	0.01	0.01	1.12	13.50	22.93	124.13

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	11.07	5.69	14.78	32.16	22.55	8.62	2.01	0.20	0.01	2.05	13.96	20.72	133.83
726	1.3912	14.74	5.99	14.96	35.43	25.79	9.00	1.90	0.89	1.51	10.53	29.47	30.35	180.55
727	3.2773	18.11	10.10	21.61	41.59	29.25	10.97	2.47	0.58	1.31	10.31	30.06	33.38	209.75
728	0.3486	14.61	7.02	17.43	31.67	18.66	4.86	0.47	0.16	0.26	2.66	19.62	27.84	145.25
729	1.9885	18.07	9.29	20.50	43.41	33.06	13.85	3.82	1.43	2.51	13.93	33.79	34.73	228.40
730	13.8867	22.08	10.00	18.14	50.10	42.44	21.85	7.36	3.20	5.74	20.68	41.31	42.61	285.51
731	0.1371	13.11	5.63	12.40	32.59	26.24	9.66	1.69	0.07	0.19	4.73	23.88	26.39	156.59
732	0.0378	11.53	5.25	9.06	30.50	31.00	14.39	4.54	0.79	0.43	5.02	24.75	24.89	162.15
733	0.9503	15.79	7.25	16.41	39.45	32.05	15.04	3.96	0.78	1.83	12.21	32.37	31.81	208.95
734	1.1721	18.38	8.65	20.12	42.17	34.48	18.73	7.33	3.48	6.09	21.40	40.35	36.41	257.60
735	0.1015	15.49	6.76	13.73	34.73	33.58	18.02	7.90	3.88	5.40	20.95	39.24	33.67	233.34
736	9.8639	19.58	9.54	21.07	43.09	34.58	18.31	6.52	2.39	4.38	18.72	38.68	36.63	253.49
737	0.1350	13.92	6.75	16.53	31.95	20.89	6.30	1.01	0.04	0.00	2.82	21.26	27.19	148.67
738	2.7769	20.67	8.65	17.00	49.29	39.42	17.59	5.03	2.60	5.42	19.69	39.95	41.57	266.89
739	4.5566	20.43	8.52	16.87	46.99	38.48	19.42	5.97	2.51	4.61	18.55	39.34	40.67	262.36
740	0.0420	14.11	6.04	14.57	34.20	25.68	12.08	2.64	0.56	1.20	7.11	26.43	27.90	172.52
741	1.3845	17.83	6.71	11.79	43.07	39.65	19.58	5.36	1.97	3.63	15.98	35.68	36.49	237.74
742	3.0189	19.54	8.15	14.59	46.22	42.04	20.63	7.10	3.94	6.69	21.95	41.00	39.68	271.51
743	0.3395	17.55	7.27	14.27	40.83	32.77	16.42	4.39	1.26	2.15	12.20	32.42	35.20	216.72
744	0.0668	16.24	6.70	13.89	39.60	28.62	12.84	2.51	0.52	0.43	5.21	25.18	31.50	183.24
745	0.0587	14.80	6.08	11.70	38.16	31.24	14.91	3.16	0.14	0.18	4.93	23.77	29.13	178.22
746	2.7704	19.64	7.94	14.42	46.43	41.70	22.20	7.82	3.57	6.16	21.60	41.55	40.73	273.76
747	1.2664	21.21	8.88	16.22	53.17	46.34	23.69	7.78	3.05	5.96	22.54	42.76	43.35	294.97
748	4.2834	19.96	8.18	15.17	45.32	36.11	14.13	3.25	1.42	2.81	14.84	36.58	39.77	237.52
749	7.1426	14.91	5.74	9.25	36.40	24.60	9.25	3.23	1.00	3.72	16.71	37.10	33.18	195.08
750	4.4702	15.90	6.94	11.76	43.77	33.60	14.29	7.11	2.84	8.09	25.02	42.28	34.73	246.32
751	0.1943	15.78	6.04	10.38	37.66	26.19	11.85	5.49	2.27	6.34	23.52	41.29	34.77	221.60
752	3.9813	15.56	6.23	10.34	40.85	31.58	12.67	5.78	2.07	6.79	22.87	41.32	34.47	230.52
753	1.8866	15.74	6.02	10.40	42.79	34.30	16.00	6.55	2.20	7.39	25.29	43.09	35.54	245.31
754	2.1167	17.57	7.57	14.00	45.62	36.03	16.40	8.19	3.59	9.93	29.59	46.96	37.54	273.01
755	0.1806	14.67	5.49	10.39	35.84	18.31	6.52	1.47	0.24	1.59	13.11	34.44	32.35	174.41
756	0.9717	16.20	7.71	13.22	49.59	41.15	17.22	7.94	2.75	8.30	24.91	42.92	35.04	266.94
757	1.6273	17.85	9.74	18.94	49.45	39.23	17.33	8.28	3.06	8.68	25.86	43.95	36.05	278.41
758	0.1636	11.78	4.33	6.15	31.77	28.13	12.03	4.19	1.32	3.31	14.66	30.68	28.20	176.56

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
759	0.6767	14.43	7.35	11.80	43.75	38.52	16.38	7.64	2.37	6.77	20.83	37.82	31.44	239.09
760	1.6425	19.43	12.39	24.61	57.39	44.84	19.29	9.90	3.53	9.80	27.05	45.78	37.17	311.19
761	5.4201	16.25	7.38	13.29	41.85	32.80	14.79	6.01	2.22	6.72	22.80	41.27	35.01	240.40
762	0.0473	13.44	5.08	8.08	35.15	30.33	12.47	3.39	0.70	4.15	18.03	34.93	30.94	196.68
763	0.9776	17.26	8.85	16.72	45.62	33.37	13.90	6.78	2.43	7.54	24.03	42.90	36.26	255.65
764	0.0327	14.00	5.05	5.38	33.01	39.14	23.29	12.39	5.91	11.31	32.26	48.10	34.95	264.78
801	0.1899	10.33	3.90	4.62	29.80	36.11	14.48	7.26	2.80	6.73	23.07	38.36	26.90	204.36
802	0.1652	10.35	3.91	4.63	29.86	36.54	14.83	7.35	2.84	6.79	23.15	38.53	26.98	205.77
803	0.0207	8.64	3.15	3.47	29.83	37.49	20.93	12.26	6.26	7.22	19.52	31.34	22.45	202.56
804	0.1544	9.25	3.42	3.88	29.78	35.59	13.57	5.32	1.90	4.51	16.87	31.98	23.81	179.89
805	0.4573	7.40	2.80	4.12	28.26	28.39	13.10	4.09	1.05	0.58	4.65	17.24	18.35	130.02
806	0.0286	16.81	7.92	15.09	43.32	33.99	14.80	7.51	3.34	9.10	26.77	43.64	35.77	258.05
807	4.6905	7.04	2.72	5.11	31.83	29.01	12.17	3.65	0.77	0.62	3.36	15.40	16.62	128.29
808	0.0318	6.84	2.66	5.58	33.28	28.38	10.86	1.78	0.17	0.14	1.84	11.79	15.26	118.57
809	0.0208	12.75	4.84	9.54	35.25	25.49	9.81	2.74	0.89	3.03	13.84	29.76	28.00	175.93
810	0.2197	12.75	4.84	9.54	35.25	25.49	9.81	2.74	0.89	3.03	13.84	29.76	28.00	175.93
811	3.6146	16.67	6.80	12.71	40.60	30.44	13.21	5.93	2.77	7.83	25.47	43.72	36.50	242.66
812	4.5811	15.61	6.45	10.44	38.29	31.83	14.57	6.37	3.16	7.91	24.51	41.65	34.67	235.44
813	0.0763	8.28	3.13	4.67	28.60	25.34	8.51	1.77	0.29	0.46	5.16	15.88	19.11	121.21
814	4.3673	15.12	5.65	9.78	36.80	27.65	11.79	3.73	1.23	4.57	18.85	37.79	33.27	206.22
815	0.0444	9.10	3.38	3.64	24.76	23.73	8.68	2.15	0.41	0.67	7.26	20.27	22.12	126.17
816	0.6943	13.63	5.17	10.00	34.26	23.70	8.60	1.94	0.46	1.59	12.14	31.35	29.74	172.57
817	0.1234	11.60	4.34	7.55	30.68	25.93	10.19	1.96	0.23	0.93	10.24	26.99	26.85	157.50
818	2.1621	14.35	5.39	10.00	36.56	27.03	10.51	3.67	1.48	4.06	17.37	36.60	32.34	199.36
819	0.1383	11.17	4.20	7.64	30.30	23.32	7.69	1.64	0.28	0.83	8.08	24.45	25.08	144.69
820	0.1090	10.49	4.01	7.28	29.30	21.16	5.74	0.99	0.08	0.42	4.49	20.16	22.65	126.75
821	7.7087	15.04	6.02	10.14	37.71	30.53	14.52	5.49	2.11	5.80	21.41	39.33	33.45	221.56
822	0.0462	8.25	3.11	4.24	24.95	21.61	6.66	1.72	0.32	0.66	4.94	15.99	18.68	111.12
823	2.7867	14.05	5.22	8.86	35.32	28.74	13.37	4.20	1.12	4.15	18.11	35.86	31.62	200.62
824	2.7875	14.28	5.32	9.37	35.69	27.76	14.36	5.16	1.40	4.02	18.52	35.86	31.72	203.44
825	0.0888	12.03	4.57	8.41	31.87	22.53	7.92	1.65	0.36	1.00	9.16	26.90	26.73	153.13
826	7.6250	15.54	6.02	10.28	37.28	27.07	10.55	4.08	1.54	5.27	20.42	39.42	34.12	211.57

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
827	0.0354	10.26	3.83	6.39	31.04	26.90	13.88	5.52	1.21	1.42	11.35	26.17	24.62	162.60
828	0.0299	10.11	3.77	6.21	30.93	27.27	14.37	6.75	2.26	2.28	12.49	26.52	24.33	167.28
829	0.0974	11.82	4.42	7.83	31.63	24.76	9.92	2.28	0.29	0.85	9.63	26.22	26.10	155.75
830	2.6253	14.25	5.38	9.85	35.44	27.43	12.79	4.11	1.09	3.86	18.14	36.00	31.57	199.91
831	0.2743	14.37	5.31	9.90	34.22	21.88	7.13	1.32	0.15	0.78	10.11	30.04	29.68	164.90
832	0.1364	13.72	5.09	9.43	33.83	24.31	9.51	2.01	0.21	0.97	10.70	29.63	28.85	168.26
833	4.9042	15.58	6.26	10.57	37.87	30.01	14.54	5.74	2.23	6.53	22.93	40.37	34.14	226.76
834	0.0303	16.98	7.82	13.89	34.66	28.05	16.30	9.07	4.55	6.81	21.00	36.33	35.20	230.65
835	0.0645	13.76	5.71	10.27	29.90	20.93	6.33	1.07	0.37	0.85	8.27	22.74	27.98	148.18
836	2.1880	18.05	7.92	13.90	35.39	26.51	12.17	4.10	1.69	4.97	19.18	37.41	37.42	218.71
837	0.0337	13.21	5.62	9.81	30.48	24.40	10.09	3.61	1.39	2.16	11.27	24.21	27.24	163.51
838	0.0239	11.30	4.79	7.92	28.70	23.33	7.75	1.82	0.53	0.46	6.37	17.56	23.14	133.65
839	3.3264	19.53	8.94	15.28	37.47	27.83	12.99	5.22	2.70	7.40	23.91	42.26	40.26	243.79
840	1.0502	17.52	8.10	13.66	33.94	25.13	11.21	3.19	1.09	3.66	16.15	34.48	35.97	204.10
841	0.1102	7.86	13.23	32.03	21.02	6.61	1.16	0.43	1.51	11.10	27.95	33.74	16.56	173.19
842	0.1308	16.94	7.44	13.59	32.86	20.00	6.25	1.01	0.42	1.50	11.32	30.10	34.67	176.09
843	6.8981	19.50	8.87	15.36	37.47	26.14	10.18	4.57	2.87	7.46	23.62	42.20	40.29	238.54
844	0.0754	16.58	7.49	14.20	31.99	18.14	4.70	1.27	0.49	0.73	8.04	26.95	32.91	163.49
845	0.0213	16.36	7.34	13.97	32.00	20.61	9.15	2.12	0.10	0.64	10.41	28.86	32.87	174.42
846	0.0254	12.88	5.88	10.92	34.09	24.75	11.88	5.53	2.34	2.85	12.13	26.47	27.09	176.81
847	0.2893	18.79	9.57	14.94	33.94	23.05	7.78	2.37	1.32	5.35	20.96	39.48	38.78	216.33
848	2.7345	18.91	8.47	15.74	37.37	27.55	13.42	5.25	2.56	6.48	21.89	40.33	39.00	236.96
849	1.6469	18.81	8.72	16.07	37.31	28.21	15.09	6.42	3.02	7.50	23.78	41.13	38.79	244.85
850	0.2326	17.78	8.49	14.60	32.21	16.26	4.28	0.94	0.42	2.20	12.51	31.98	35.80	177.50
851	0.2326	17.78	8.49	14.60	32.20	16.26	4.28	0.94	0.42	2.20	12.50	31.97	35.80	177.45
852	5.4305	18.91	8.58	14.60	37.02	27.84	12.18	4.54	2.38	6.46	22.07	40.48	39.30	234.36
853	5.3264	18.64	8.19	14.94	36.69	26.58	12.58	4.65	2.14	5.92	20.72	39.44	38.65	229.14
854	0.0267	15.64	6.95	13.06	31.64	21.38	9.26	2.32	0.37	0.64	9.38	27.60	31.70	169.94
855	0.1517	16.39	7.40	13.90	31.72	20.26	6.71	1.32	0.31	0.67	9.28	27.02	32.46	167.42
856	0.0258	15.08	6.53	11.68	32.11	24.92	12.29	4.26	1.20	2.35	13.30	29.03	31.36	184.10
857	0.9950	17.99	8.61	14.87	34.31	24.33	9.79	2.96	1.32	4.55	18.23	36.66	37.03	210.66
858	0.0328	16.11	7.05	12.91	32.38	23.58	12.09	4.57	1.69	3.08	15.33	31.88	33.10	193.77

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
859	3.4439	19.06	8.82	15.55	36.39	26.82	14.67	6.80	2.84	7.01	23.71	40.92	39.06	241.67
860	0.0367	14.80	6.50	12.02	31.35	22.66	10.75	3.61	0.98	1.34	10.65	26.94	30.35	171.97
861	3.0772	17.93	7.94	14.56	35.57	26.90	13.92	5.10	2.06	6.05	21.43	39.33	37.54	228.34
862	0.0597	17.70	8.59	14.46	32.62	22.91	10.93	3.08	0.85	2.93	15.27	33.61	35.92	198.87
863	0.2171	17.52	8.46	14.24	32.41	18.83	5.23	1.22	0.54	1.75	11.92	31.02	35.61	178.75
864	0.1687	17.90	8.76	14.73	32.62	21.04	6.23	0.97	0.44	2.15	12.81	32.01	36.24	185.90
865	0.0255	17.65	7.78	14.31	33.41	23.08	9.21	1.76	0.46	2.31	13.73	33.51	36.06	193.28
866	0.0995	17.64	8.50	14.33	32.59	20.51	6.06	1.06	0.47	1.97	12.36	31.49	35.85	182.84
867	7.0547	18.38	7.96	14.40	36.52	27.56	13.27	4.96	2.34	6.34	21.70	40.22	38.58	232.23
868	0.0592	17.70	8.58	14.45	32.64	22.96	10.98	3.15	0.83	2.93	15.31	33.61	35.93	199.06
869	0.2172	17.51	8.45	14.23	32.41	18.86	5.25	1.23	0.54	1.76	11.89	31.02	35.59	178.74
870	0.1687	17.90	8.76	14.72	32.61	21.04	6.24	0.98	0.44	2.15	12.80	32.01	36.23	185.88
871	0.0997	17.63	8.50	14.32	32.59	20.60	6.07	1.07	0.47	1.98	12.36	31.48	35.84	182.91
872	7.1256	18.39	7.96	14.39	36.53	27.49	13.08	4.84	2.32	6.29	21.60	40.20	38.60	231.67
873	25.8389	19.20	9.00	14.91	37.70	28.54	13.09	5.38	2.83	7.08	22.81	40.99	39.79	241.31
874	0.1140	17.05	8.81	14.26	31.83	22.81	10.75	3.97	1.51	3.00	14.31	31.87	34.28	194.44
875	0.0854	17.68	9.19	14.75	31.96	22.03	8.11	1.64	0.77	2.50	13.12	32.01	35.64	189.40
876	0.4446	19.38	9.71	15.57	35.04	24.92	10.19	4.59	2.49	6.62	22.27	40.50	39.71	230.97
877	5.2953	19.95	9.40	15.93	38.55	28.10	11.74	5.56	3.16	8.22	25.34	44.51	41.66	252.10
878	4.0376	20.93	10.18	17.04	39.82	29.95	15.29	7.12	3.74	9.60	27.90	46.25	42.82	270.66
879	0.0701	17.69	7.83	14.39	32.39	15.46	4.69	0.86	0.36	1.17	10.93	30.83	36.01	172.60
880	6.7158	20.12	9.58	15.88	37.46	29.10	15.23	6.56	3.38	8.58	26.34	44.53	41.44	258.22
881	0.0457	16.31	7.34	13.96	31.80	19.18	5.38	0.81	0.00	0.01	7.56	26.42	32.44	161.21
882	0.2844	15.85	7.17	13.55	29.84	13.03	3.80	0.85	0.18	0.31	5.44	23.80	31.22	145.03
883	0.2902	25.03	12.85	10.83	25.16	26.89	17.28	8.18	2.68	2.23	9.82	24.51	34.09	199.54
884	9.0634	31.11	15.33	12.28	27.96	33.96	25.80	17.69	9.84	8.99	21.34	37.86	45.25	287.41
885	0.1466	26.46	13.31	10.96	25.74	29.74	20.55	11.78	4.90	4.04	13.05	28.32	37.06	225.91
886	8.7433	31.01	15.54	12.65	27.84	33.17	24.87	16.70	9.16	8.67	21.00	37.32	44.80	282.73
887	1.2169	28.48	13.63	10.48	26.61	33.32	25.19	16.88	8.52	7.08	18.69	34.78	41.86	265.51
888	11.4533	30.74	15.23	12.31	27.77	33.63	25.37	17.36	9.93	9.22	21.43	37.79	44.86	285.65
889	0.8397	29.57	14.12	11.53	28.40	33.21	24.51	16.33	8.85	7.54	18.02	34.54	42.72	269.34
890	18.5665	30.78	15.42	12.51	27.84	32.54	24.07	16.14	8.76	7.91	19.80	36.42	44.29	276.50

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
891	0.0890	17.46	8.63	7.30	22.98	31.74	20.59	9.91	2.92	1.44	4.60	14.96	23.68	166.20
892	0.3537	26.82	13.43	11.15	25.97	29.45	20.16	11.63	4.77	4.24	13.15	28.50	37.48	226.74
893	0.0680	17.16	8.48	7.17	22.81	31.86	20.64	9.91	2.81	1.32	4.36	14.53	23.22	164.27
894	0.0772	17.11	8.39	6.99	21.96	31.44	20.77	10.15	2.92	1.31	4.37	14.34	23.13	162.87
895	7.0878	27.90	13.31	10.07	24.84	33.42	25.50	17.03	9.14	7.53	17.64	33.08	40.75	260.20
896	26.4622	27.81	13.77	12.73	27.12	31.07	22.28	14.32	7.65	7.13	16.32	31.06	38.23	249.49
897	31.2861	28.69	14.70	13.67	27.14	31.99	22.99	15.25	8.47	7.56	16.70	31.57	39.20	257.92
898	16.0349	28.23	15.08	17.94	41.84	52.58	36.58	23.44	11.60	8.86	17.79	32.49	39.22	325.66
899	6.2358	29.17	15.36	16.89	36.75	43.23	29.97	19.20	9.74	8.18	17.52	32.51	39.84	298.36

Table AG.4: Total monthly baseflow (cms) modelled for each subwatershed along the Lake Huron Shoreline

Map Index	Area (km^2)	Baseflow (cms)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	0.0082	0.0041	0.0078	0.0257	0.0166	0.0064	0.0013	0.0004	0.0006	0.0050	0.0174	0.0170	0.1105
602	0.2196	0.0011	0.0005	0.0009	0.0035	0.0020	0.0007	0.0001	0.0001	0.0001	0.0004	0.0022	0.0023	0.0139
603	0.3655	0.0019	0.0008	0.0013	0.0055	0.0039	0.0015	0.0005	0.0002	0.0003	0.0017	0.0045	0.0041	0.0262
604	0.7529	0.0040	0.0016	0.0028	0.0115	0.0091	0.0038	0.0011	0.0006	0.0009	0.0047	0.0106	0.0088	0.0596
605	3.2117	0.0164	0.0068	0.0135	0.0529	0.0367	0.0177	0.0043	0.0007	0.0009	0.0115	0.0387	0.0352	0.2352
606	0.1626	0.0008	0.0003	0.0007	0.0025	0.0014	0.0005	0.0001	0.0000	0.0001	0.0003	0.0016	0.0017	0.0101
607	14.1530	0.0782	0.0319	0.0520	0.2346	0.2035	0.0961	0.0351	0.0194	0.0290	0.1062	0.2188	0.1781	1.2829
608	27.4480	0.1692	0.0734	0.1314	0.5027	0.4167	0.2420	0.0970	0.0432	0.0667	0.2509	0.4815	0.3724	2.8471
609	10.9853	0.0664	0.0290	0.0520	0.2034	0.1766	0.1009	0.0409	0.0239	0.0366	0.1154	0.1994	0.1481	1.1926
610	14.7211	0.0918	0.0406	0.0768	0.2764	0.2156	0.1144	0.0421	0.0220	0.0355	0.1306	0.2557	0.2017	1.5030
611	26.6505	0.1560	0.0683	0.1206	0.4733	0.3758	0.2277	0.0972	0.0452	0.0593	0.2331	0.4406	0.3425	2.6395
612	11.2644	0.0695	0.0307	0.0567	0.2105	0.1668	0.0936	0.0361	0.0199	0.0309	0.1076	0.1992	0.1541	1.1756
613	0.2886	0.0012	0.0006	0.0010	0.0038	0.0026	0.0011	0.0003	0.0001	0.0001	0.0005	0.0023	0.0025	0.0161
614	1.3068	0.0068	0.0028	0.0053	0.0209	0.0139	0.0054	0.0012	0.0005	0.0008	0.0049	0.0155	0.0146	0.0927
615	0.1323	0.0006	0.0002	0.0005	0.0019	0.0012	0.0004	0.0000	0.0000	0.0000	0.0001	0.0010	0.0012	0.0072
616	6.6770	0.0414	0.0187	0.0342	0.1238	0.0981	0.0610	0.0276	0.0133	0.0181	0.0643	0.1156	0.0897	0.7058
617	6.6685	0.0392	0.0172	0.0314	0.1206	0.0963	0.0537	0.0180	0.0078	0.0141	0.0568	0.1099	0.0871	0.6520
618	23.0036	0.1448	0.0648	0.1200	0.4262	0.3258	0.1647	0.0579	0.0332	0.0587	0.2195	0.4043	0.3182	2.3380
619	3.0191	0.0165	0.0068	0.0127	0.0497	0.0385	0.0223	0.0080	0.0026	0.0038	0.0201	0.0442	0.0364	0.2615
620	8.1604	0.0483	0.0215	0.0406	0.1462	0.1146	0.0707	0.0311	0.0138	0.0193	0.0714	0.1337	0.1049	0.8161
621	0.3152	0.0016	0.0007	0.0013	0.0048	0.0032	0.0012	0.0002	0.0000	0.0000	0.0009	0.0036	0.0034	0.0210
622	1.1440	0.0062	0.0026	0.0049	0.0183	0.0116	0.0041	0.0007	0.0001	0.0002	0.0040	0.0142	0.0131	0.0800
623	1.8901	0.0108	0.0046	0.0090	0.0320	0.0216	0.0102	0.0021	0.0003	0.0009	0.0093	0.0265	0.0232	0.1506
624	12.2594	0.0721	0.0296	0.0532	0.2092	0.1419	0.0571	0.0203	0.0087	0.0140	0.0742	0.1897	0.1581	1.0281
625	15.6152	0.0930	0.0395	0.0730	0.2790	0.2225	0.1280	0.0482	0.0224	0.0365	0.1387	0.2652	0.2065	1.5525
626	0.7993	0.0042	0.0017	0.0033	0.0133	0.0088	0.0033	0.0006	0.0001	0.0002	0.0027	0.0095	0.0090	0.0567
627	0.1828	0.0009	0.0004	0.0008	0.0031	0.0020	0.0007	0.0002	0.0000	0.0000	0.0006	0.0021	0.0021	0.0129
628	7.4942	0.0436	0.0183	0.0333	0.1308	0.1021	0.0570	0.0194	0.0077	0.0131	0.0597	0.1217	0.0967	0.7032
629	0.1004	0.0005	0.0002	0.0004	0.0015	0.0011	0.0004	0.0001	0.0000	0.0000	0.0004	0.0012	0.0011	0.0069
630	3.7583	0.0217	0.0089	0.0163	0.0652	0.0499	0.0301	0.0113	0.0040	0.0065	0.0318	0.0619	0.0487	0.3563
631	0.0635	0.0004	0.0002	0.0003	0.0010	0.0007	0.0003	0.0001	0.0000	0.0001	0.0004	0.0010	0.0008	0.0052
632	13.3844	0.0826	0.0349	0.0656	0.2426	0.1819	0.0988	0.0330	0.0144	0.0259	0.1103	0.2242	0.1801	1.2943
633	0.5487	0.0028	0.0011	0.0022	0.0090	0.0065	0.0032	0.0008	0.0001	0.0002	0.0020	0.0066	0.0060	0.0405

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	0.0008	0.0003	0.0006	0.0023	0.0015	0.0006	0.0001	0.0000	0.0000	0.0004	0.0017	0.0016	0.0098
635	5.9121	0.0332	0.0137	0.0254	0.1033	0.0785	0.0471	0.0183	0.0065	0.0094	0.0445	0.0925	0.0739	0.5464
636	12.5299	0.0773	0.0332	0.0616	0.2309	0.1838	0.1050	0.0389	0.0171	0.0287	0.1143	0.2187	0.1698	1.2793
637	0.0577	0.0003	0.0001	0.0003	0.0007	0.0005	0.0003	0.0001	0.0000	0.0000	0.0001	0.0005	0.0005	0.0034
638	5.3140	0.0295	0.0123	0.0232	0.0883	0.0658	0.0343	0.0099	0.0033	0.0063	0.0328	0.0779	0.0645	0.4482
639	14.0470	0.0977	0.0519	0.1116	0.2209	0.1687	0.0956	0.0333	0.0126	0.0269	0.1078	0.2153	0.1889	1.3312
640	0.1244	0.0006	0.0003	0.0006	0.0016	0.0011	0.0005	0.0001	0.0000	0.0000	0.0002	0.0011	0.0012	0.0073
641	1.0287	0.0055	0.0029	0.0067	0.0129	0.0083	0.0031	0.0003	0.0000	0.0001	0.0017	0.0092	0.0108	0.0616
642	0.0691	0.0003	0.0001	0.0002	0.0008	0.0006	0.0002	0.0000	0.0000	0.0000	0.0001	0.0004	0.0005	0.0032
643	5.2502	0.0312	0.0159	0.0367	0.0719	0.0503	0.0279	0.0077	0.0016	0.0040	0.0251	0.0652	0.0615	0.3991
644	0.6674	0.0035	0.0017	0.0038	0.0084	0.0059	0.0021	0.0003	0.0000	0.0000	0.0013	0.0062	0.0069	0.0402
645	4.0982	0.0245	0.0117	0.0267	0.0587	0.0425	0.0261	0.0108	0.0034	0.0056	0.0265	0.0558	0.0496	0.3420
646	0.1058	0.0007	0.0004	0.0008	0.0015	0.0010	0.0004	0.0001	0.0000	0.0001	0.0006	0.0016	0.0014	0.0086
647	2.9632	0.0172	0.0086	0.0197	0.0408	0.0291	0.0158	0.0042	0.0006	0.0017	0.0133	0.0363	0.0344	0.2218
648	1.4051	0.0085	0.0043	0.0094	0.0194	0.0144	0.0077	0.0019	0.0003	0.0010	0.0072	0.0184	0.0171	0.1095
649	0.0674	0.0005	0.0002	0.0005	0.0009	0.0006	0.0003	0.0001	0.0000	0.0001	0.0004	0.0010	0.0009	0.0055
650	6.3381	0.0580	0.0479	0.0877	0.1655	0.1224	0.0631	0.0290	0.0178	0.0284	0.0786	0.1267	0.1055	0.9306
651	4.8242	0.0422	0.0325	0.0567	0.0897	0.0639	0.0347	0.0122	0.0052	0.0095	0.0349	0.0725	0.0706	0.5247
652	16.2879	0.1104	0.0570	0.1218	0.2541	0.2037	0.1261	0.0547	0.0246	0.0405	0.1410	0.2586	0.2203	1.6129
653	3.0394	0.0186	0.0086	0.0200	0.0454	0.0340	0.0222	0.0106	0.0043	0.0063	0.0249	0.0460	0.0382	0.2790
654	11.9029	0.0771	0.0382	0.0825	0.1809	0.1463	0.0886	0.0351	0.0142	0.0256	0.0961	0.1838	0.1569	1.1253
655	0.0840	0.0005	0.0003	0.0006	0.0011	0.0007	0.0003	0.0001	0.0000	0.0001	0.0004	0.0012	0.0011	0.0064
656	5.1345	0.0322	0.0156	0.0345	0.0768	0.0615	0.0383	0.0162	0.0068	0.0114	0.0422	0.0783	0.0661	0.4799
657	0.0735	0.0004	0.0002	0.0004	0.0009	0.0006	0.0002	0.0000	0.0000	0.0000	0.0001	0.0006	0.0007	0.0042
658	0.0458	0.0002	0.0001	0.0003	0.0006	0.0004	0.0002	0.0000	0.0000	0.0000	0.0001	0.0004	0.0005	0.0028
659	0.0658	0.0003	0.0002	0.0004	0.0008	0.0006	0.0003	0.0001	0.0000	0.0000	0.0001	0.0006	0.0007	0.0039
660	8.5454	0.0558	0.0270	0.0590	0.1293	0.1002	0.0603	0.0231	0.0093	0.0176	0.0666	0.1305	0.1134	0.7921
661	0.0307	0.0002	0.0001	0.0002	0.0004	0.0003	0.0001	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0019
662	8.8341	0.0578	0.0280	0.0624	0.1355	0.1058	0.0658	0.0278	0.0114	0.0195	0.0734	0.1385	0.1179	0.8437
663	0.5166	0.0029	0.0013	0.0030	0.0073	0.0055	0.0031	0.0010	0.0003	0.0006	0.0029	0.0066	0.0060	0.0406
664	0.0522	0.0002	0.0001	0.0002	0.0006	0.0005	0.0003	0.0001	0.0000	0.0000	0.0001	0.0004	0.0005	0.0031
665	6.5997	0.0413	0.0200	0.0452	0.0985	0.0755	0.0449	0.0173	0.0056	0.0105	0.0466	0.0947	0.0829	0.5829
666	0.0636	0.0002	0.0001	0.0002	0.0007	0.0006	0.0003	0.0000	0.0000	0.0000	0.0000	0.0003	0.0005	0.0031
667	0.0706	0.0003	0.0001	0.0002	0.0008	0.0007	0.0003	0.0001	0.0000	0.0000	0.0001	0.0004	0.0005	0.0033
668	1.8870	0.0097	0.0045	0.0092	0.0251	0.0209	0.0114	0.0034	0.0008	0.0014	0.0083	0.0210	0.0200	0.1358

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	0.0488	0.0230	0.0516	0.1133	0.0855	0.0490	0.0163	0.0059	0.0127	0.0533	0.1112	0.0984	0.6692
670	5.7881	0.0366	0.0181	0.0381	0.0886	0.0737	0.0458	0.0206	0.0096	0.0147	0.0486	0.0896	0.0751	0.5589
671	0.3355	0.0018	0.0009	0.0020	0.0043	0.0030	0.0012	0.0002	0.0000	0.0001	0.0008	0.0033	0.0036	0.0212
672	0.9395	0.0055	0.0025	0.0058	0.0136	0.0104	0.0046	0.0012	0.0005	0.0011	0.0061	0.0133	0.0114	0.0760
673	7.9997	0.0529	0.0266	0.0543	0.1253	0.1029	0.0595	0.0225	0.0120	0.0207	0.0664	0.1259	0.1082	0.7771
674	0.0497	0.0002	0.0001	0.0001	0.0007	0.0007	0.0003	0.0001	0.0000	0.0000	0.0002	0.0006	0.0005	0.0035
675	0.1866	0.0008	0.0003	0.0005	0.0026	0.0026	0.0011	0.0003	0.0000	0.0001	0.0008	0.0022	0.0020	0.0133
676	5.5909	0.0340	0.0178	0.0367	0.0821	0.0662	0.0363	0.0116	0.0044	0.0082	0.0344	0.0770	0.0688	0.4776
677	0.0398	0.0002	0.0001	0.0001	0.0005	0.0006	0.0003	0.0001	0.0000	0.0000	0.0002	0.0004	0.0004	0.0028
678	0.1595	0.0006	0.0003	0.0005	0.0023	0.0022	0.0009	0.0002	0.0000	0.0001	0.0005	0.0015	0.0014	0.0106
679	0.6001	0.0038	0.0027	0.0050	0.0103	0.0089	0.0036	0.0013	0.0005	0.0008	0.0037	0.0081	0.0067	0.0553
701	0.1254	0.0005	0.0002	0.0005	0.0017	0.0016	0.0007	0.0002	0.0000	0.0000	0.0004	0.0012	0.0011	0.0082
702	0.0799	0.0003	0.0001	0.0003	0.0011	0.0010	0.0004	0.0001	0.0000	0.0000	0.0002	0.0007	0.0007	0.0049
703	0.2377	0.0009	0.0004	0.0010	0.0031	0.0031	0.0012	0.0002	0.0000	0.0001	0.0007	0.0022	0.0021	0.0150
704	0.2098	0.0008	0.0004	0.0009	0.0028	0.0027	0.0011	0.0002	0.0000	0.0001	0.0006	0.0020	0.0018	0.0133
705	1.3627	0.0050	0.0024	0.0053	0.0182	0.0177	0.0083	0.0025	0.0002	0.0005	0.0043	0.0127	0.0115	0.0887
706	0.2602	0.0007	0.0003	0.0006	0.0035	0.0032	0.0011	0.0001	0.0000	0.0000	0.0001	0.0012	0.0016	0.0125
707	0.3074	0.0008	0.0003	0.0007	0.0042	0.0039	0.0015	0.0002	0.0000	0.0000	0.0002	0.0016	0.0020	0.0154
708	1.8884	0.0058	0.0026	0.0056	0.0249	0.0234	0.0087	0.0014	0.0001	0.0002	0.0022	0.0108	0.0126	0.0983
709	0.1895	0.0007	0.0003	0.0008	0.0025	0.0019	0.0007	0.0001	0.0000	0.0000	0.0002	0.0011	0.0015	0.0099
710	1.1343	0.0056	0.0025	0.0057	0.0153	0.0123	0.0055	0.0014	0.0003	0.0006	0.0043	0.0123	0.0117	0.0775
711	0.0620	0.0003	0.0002	0.0003	0.0009	0.0009	0.0005	0.0002	0.0001	0.0001	0.0005	0.0010	0.0008	0.0057
712	2.1799	0.0120	0.0052	0.0106	0.0308	0.0270	0.0130	0.0035	0.0017	0.0027	0.0133	0.0304	0.0264	0.1767
713	2.0642	0.0128	0.0067	0.0139	0.0307	0.0221	0.0093	0.0022	0.0006	0.0014	0.0090	0.0253	0.0250	0.1590
714	0.9506	0.0054	0.0024	0.0054	0.0130	0.0087	0.0035	0.0006	0.0001	0.0003	0.0032	0.0106	0.0107	0.0639
715	1.6470	0.0106	0.0054	0.0120	0.0242	0.0162	0.0068	0.0016	0.0005	0.0012	0.0076	0.0202	0.0208	0.1270
716	0.0265	0.0001	0.0001	0.0001	0.0003	0.0003	0.0001	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002	0.0014
717	0.0813	0.0004	0.0002	0.0005	0.0010	0.0005	0.0001	0.0000	0.0000	0.0000	0.0000	0.0006	0.0008	0.0042
718	0.0364	0.0002	0.0001	0.0001	0.0004	0.0004	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0020
719	3.9405	0.0235	0.0119	0.0255	0.0541	0.0366	0.0159	0.0040	0.0008	0.0014	0.0131	0.0430	0.0466	0.2763
720	2.9784	0.0193	0.0102	0.0217	0.0438	0.0301	0.0125	0.0027	0.0006	0.0016	0.0121	0.0355	0.0371	0.2272
721	0.1524	0.0007	0.0003	0.0006	0.0018	0.0014	0.0005	0.0001	0.0000	0.0000	0.0002	0.0011	0.0013	0.0078
722	3.9243	0.0240	0.0123	0.0261	0.0565	0.0392	0.0160	0.0035	0.0008	0.0022	0.0151	0.0447	0.0466	0.2869
723	0.0279	0.0001	0.0001	0.0002	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0000	0.0002	0.0003	0.0015
724	0.2535	0.0012	0.0007	0.0015	0.0031	0.0017	0.0003	0.0000	0.0000	0.0000	0.0001	0.0013	0.0022	0.0120

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	0.0003	0.0002	0.0004	0.0008	0.0006	0.0002	0.0001	0.0000	0.0000	0.0001	0.0004	0.0005	0.0035
726	1.3912	0.0077	0.0034	0.0078	0.0190	0.0134	0.0048	0.0010	0.0005	0.0008	0.0055	0.0158	0.0158	0.0954
727	3.2773	0.0222	0.0137	0.0264	0.0526	0.0358	0.0139	0.0030	0.0007	0.0017	0.0126	0.0380	0.0408	0.2614
728	0.3486	0.0019	0.0010	0.0023	0.0043	0.0024	0.0007	0.0001	0.0000	0.0000	0.0003	0.0026	0.0036	0.0192
729	1.9885	0.0134	0.0076	0.0152	0.0333	0.0245	0.0106	0.0028	0.0011	0.0019	0.0103	0.0259	0.0258	0.1726
730	13.8867	0.1145	0.0574	0.0941	0.2684	0.2200	0.1171	0.0382	0.0166	0.0307	0.1072	0.2213	0.2209	1.5064
731	0.1371	0.0007	0.0003	0.0006	0.0017	0.0013	0.0005	0.0001	0.0000	0.0000	0.0002	0.0013	0.0014	0.0082
732	0.0378	0.0002	0.0001	0.0001	0.0004	0.0004	0.0002	0.0001	0.0000	0.0000	0.0001	0.0004	0.0004	0.0023
733	0.9503	0.0056	0.0028	0.0058	0.0145	0.0114	0.0055	0.0014	0.0003	0.0007	0.0043	0.0119	0.0113	0.0755
734	1.1721	0.0080	0.0042	0.0088	0.0191	0.0151	0.0085	0.0032	0.0015	0.0028	0.0094	0.0182	0.0159	0.1147
735	0.1015	0.0006	0.0003	0.0005	0.0014	0.0013	0.0007	0.0003	0.0001	0.0002	0.0008	0.0015	0.0013	0.0090
736	9.8639	0.0721	0.0389	0.0776	0.1640	0.1274	0.0697	0.0240	0.0088	0.0167	0.0690	0.1472	0.1349	0.9501
737	0.1350	0.0007	0.0004	0.0008	0.0017	0.0011	0.0003	0.0001	0.0000	0.0000	0.0001	0.0011	0.0014	0.0076
738	2.7769	0.0214	0.0099	0.0176	0.0528	0.0409	0.0188	0.0052	0.0027	0.0058	0.0204	0.0428	0.0431	0.2815
739	4.5566	0.0348	0.0161	0.0287	0.0826	0.0655	0.0341	0.0101	0.0043	0.0081	0.0316	0.0692	0.0692	0.4541
740	0.0420	0.0002	0.0001	0.0002	0.0006	0.0004	0.0002	0.0000	0.0000	0.0000	0.0001	0.0004	0.0004	0.0028
741	1.3845	0.0092	0.0038	0.0061	0.0230	0.0205	0.0105	0.0028	0.0010	0.0019	0.0083	0.0191	0.0189	0.1250
742	3.0189	0.0220	0.0102	0.0164	0.0538	0.0474	0.0240	0.0080	0.0044	0.0078	0.0247	0.0478	0.0447	0.3113
743	0.3395	0.0022	0.0010	0.0018	0.0053	0.0042	0.0022	0.0006	0.0002	0.0003	0.0015	0.0042	0.0045	0.0280
744	0.0668	0.0004	0.0002	0.0003	0.0010	0.0007	0.0003	0.0001	0.0000	0.0000	0.0001	0.0006	0.0008	0.0047
745	0.0587	0.0003	0.0001	0.0003	0.0009	0.0007	0.0003	0.0001	0.0000	0.0000	0.0001	0.0005	0.0006	0.0040
746	2.7704	0.0203	0.0082	0.0149	0.0480	0.0431	0.0230	0.0081	0.0037	0.0064	0.0223	0.0430	0.0421	0.2832
747	1.2664	0.0100	0.0042	0.0077	0.0251	0.0219	0.0112	0.0037	0.0014	0.0028	0.0107	0.0202	0.0205	0.1395
748	4.2834	0.0319	0.0131	0.0243	0.0725	0.0577	0.0226	0.0052	0.0023	0.0045	0.0237	0.0585	0.0636	0.3799
749	7.1426	0.0398	0.0153	0.0247	0.0971	0.0656	0.0247	0.0086	0.0027	0.0099	0.0445	0.0989	0.0885	0.5202
750	4.4702	0.0265	0.0116	0.0196	0.0730	0.0561	0.0238	0.0119	0.0047	0.0135	0.0418	0.0706	0.0580	0.4111
751	0.1943	0.0011	0.0004	0.0008	0.0027	0.0019	0.0009	0.0004	0.0002	0.0005	0.0017	0.0030	0.0025	0.0161
752	3.9813	0.0231	0.0093	0.0154	0.0607	0.0469	0.0188	0.0086	0.0031	0.0101	0.0340	0.0614	0.0512	0.3427
753	1.8866	0.0111	0.0042	0.0073	0.0301	0.0242	0.0113	0.0046	0.0016	0.0052	0.0178	0.0304	0.0250	0.1728
754	2.1167	0.0139	0.0060	0.0111	0.0361	0.0285	0.0130	0.0065	0.0028	0.0079	0.0234	0.0371	0.0297	0.2158
755	0.1806	0.0010	0.0004	0.0007	0.0024	0.0012	0.0004	0.0001	0.0000	0.0001	0.0009	0.0023	0.0022	0.0118
756	0.9717	0.0059	0.0028	0.0048	0.0180	0.0149	0.0062	0.0029	0.0010	0.0030	0.0090	0.0156	0.0127	0.0968
757	1.6273	0.0108	0.0059	0.0115	0.0300	0.0238	0.0105	0.0050	0.0019	0.0053	0.0157	0.0267	0.0219	0.1692
758	0.1636	0.0007	0.0003	0.0004	0.0019	0.0017	0.0007	0.0003	0.0001	0.0002	0.0009	0.0019	0.0017	0.0108

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
759	0.6767	0.0036	0.0019	0.0030	0.0111	0.0097	0.0041	0.0019	0.0006	0.0017	0.0053	0.0096	0.0079	0.0604
760	1.6425	0.0119	0.0076	0.0151	0.0352	0.0275	0.0118	0.0061	0.0022	0.0060	0.0166	0.0281	0.0228	0.1908
761	5.4201	0.0329	0.0149	0.0269	0.0847	0.0664	0.0299	0.0122	0.0045	0.0136	0.0461	0.0835	0.0709	0.4865
762	0.0473	0.0002	0.0001	0.0001	0.0006	0.0005	0.0002	0.0001	0.0000	0.0001	0.0003	0.0006	0.0005	0.0035
763	0.9776	0.0063	0.0032	0.0061	0.0166	0.0122	0.0051	0.0025	0.0009	0.0028	0.0088	0.0157	0.0132	0.0933
764	0.0327	0.0002	0.0001	0.0001	0.0004	0.0005	0.0003	0.0002	0.0001	0.0001	0.0004	0.0006	0.0004	0.0032
801	0.1899	0.0007	0.0003	0.0003	0.0021	0.0026	0.0010	0.0005	0.0002	0.0005	0.0016	0.0027	0.0019	0.0145
802	0.1652	0.0006	0.0002	0.0003	0.0018	0.0023	0.0009	0.0005	0.0002	0.0004	0.0014	0.0024	0.0017	0.0127
803	0.0207	0.0001	0.0000	0.0000	0.0002	0.0003	0.0002	0.0001	0.0000	0.0001	0.0002	0.0002	0.0002	0.0016
804	0.1544	0.0005	0.0002	0.0002	0.0017	0.0021	0.0008	0.0003	0.0001	0.0003	0.0010	0.0018	0.0014	0.0104
805	0.4573	0.0013	0.0005	0.0007	0.0048	0.0048	0.0022	0.0007	0.0002	0.0001	0.0008	0.0029	0.0031	0.0222
806	0.0286	0.0002	0.0001	0.0002	0.0005	0.0004	0.0002	0.0001	0.0000	0.0001	0.0003	0.0005	0.0004	0.0028
807	4.6905	0.0123	0.0048	0.0090	0.0557	0.0508	0.0213	0.0064	0.0014	0.0011	0.0059	0.0270	0.0291	0.2247
808	0.0318	0.0001	0.0000	0.0001	0.0004	0.0003	0.0001	0.0000	0.0000	0.0000	0.0000	0.0001	0.0002	0.0014
809	0.0208	0.0001	0.0000	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0002	0.0002	0.0014
810	0.2197	0.0010	0.0004	0.0008	0.0029	0.0021	0.0008	0.0002	0.0001	0.0002	0.0011	0.0024	0.0023	0.0144
811	3.6146	0.0225	0.0092	0.0172	0.0548	0.0411	0.0178	0.0080	0.0037	0.0106	0.0344	0.0590	0.0493	0.3275
812	4.5811	0.0267	0.0110	0.0179	0.0655	0.0544	0.0249	0.0109	0.0054	0.0135	0.0419	0.0712	0.0593	0.4027
813	0.0763	0.0002	0.0001	0.0001	0.0008	0.0007	0.0002	0.0001	0.0000	0.0000	0.0001	0.0005	0.0005	0.0035
814	4.3673	0.0246	0.0092	0.0159	0.0600	0.0451	0.0192	0.0061	0.0020	0.0074	0.0307	0.0616	0.0542	0.3363
815	0.0444	0.0002	0.0001	0.0001	0.0004	0.0004	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0004	0.0021
816	0.6943	0.0035	0.0013	0.0026	0.0089	0.0061	0.0022	0.0005	0.0001	0.0004	0.0031	0.0081	0.0077	0.0447
817	0.1234	0.0005	0.0002	0.0003	0.0014	0.0012	0.0005	0.0001	0.0000	0.0000	0.0005	0.0012	0.0012	0.0073
818	2.1621	0.0116	0.0044	0.0081	0.0295	0.0218	0.0085	0.0030	0.0012	0.0033	0.0140	0.0295	0.0261	0.1609
819	0.1383	0.0006	0.0002	0.0004	0.0016	0.0012	0.0004	0.0001	0.0000	0.0000	0.0004	0.0013	0.0013	0.0075
820	0.1090	0.0004	0.0002	0.0003	0.0012	0.0009	0.0002	0.0000	0.0000	0.0000	0.0002	0.0008	0.0009	0.0052
821	7.7087	0.0433	0.0173	0.0292	0.1085	0.0879	0.0418	0.0158	0.0061	0.0167	0.0616	0.1132	0.0963	0.6377
822	0.0462	0.0001	0.0001	0.0001	0.0004	0.0004	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0019
823	2.7867	0.0146	0.0054	0.0092	0.0367	0.0299	0.0139	0.0044	0.0012	0.0043	0.0188	0.0373	0.0329	0.2087
824	2.7875	0.0149	0.0055	0.0097	0.0371	0.0289	0.0149	0.0054	0.0015	0.0042	0.0193	0.0373	0.0330	0.2117
825	0.0888	0.0004	0.0002	0.0003	0.0011	0.0007	0.0003	0.0001	0.0000	0.0000	0.0003	0.0009	0.0009	0.0051
826	7.6250	0.0442	0.0171	0.0293	0.1061	0.0771	0.0300	0.0116	0.0044	0.0150	0.0581	0.1122	0.0971	0.6023
827	0.0354	0.0001	0.0001	0.0001	0.0004	0.0004	0.0002	0.0001	0.0000	0.0000	0.0002	0.0003	0.0003	0.0021

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
828	0.0299	0.0001	0.0000	0.0001	0.0003	0.0003	0.0002	0.0001	0.0000	0.0000	0.0001	0.0003	0.0003	0.0019
829	0.0974	0.0004	0.0002	0.0003	0.0012	0.0009	0.0004	0.0001	0.0000	0.0000	0.0004	0.0010	0.0009	0.0057
830	2.6253	0.0140	0.0053	0.0097	0.0347	0.0269	0.0125	0.0040	0.0011	0.0038	0.0178	0.0353	0.0309	0.1959
831	0.2743	0.0015	0.0005	0.0010	0.0035	0.0022	0.0007	0.0001	0.0000	0.0001	0.0010	0.0031	0.0030	0.0169
832	0.1364	0.0007	0.0003	0.0005	0.0017	0.0012	0.0005	0.0001	0.0000	0.0000	0.0005	0.0015	0.0015	0.0086
833	4.9042	0.0285	0.0115	0.0193	0.0693	0.0549	0.0266	0.0105	0.0041	0.0120	0.0420	0.0739	0.0625	0.4152
834	0.0303	0.0002	0.0001	0.0002	0.0004	0.0003	0.0002	0.0001	0.0001	0.0001	0.0002	0.0004	0.0004	0.0026
835	0.0645	0.0003	0.0001	0.0002	0.0007	0.0005	0.0002	0.0000	0.0000	0.0000	0.0002	0.0005	0.0007	0.0036
836	2.1880	0.0147	0.0065	0.0114	0.0289	0.0217	0.0099	0.0033	0.0014	0.0041	0.0157	0.0306	0.0306	0.1787
837	0.0337	0.0002	0.0001	0.0001	0.0004	0.0003	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0021
838	0.0239	0.0001	0.0000	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0002	0.0002	0.0012
839	3.3264	0.0243	0.0111	0.0190	0.0465	0.0346	0.0161	0.0065	0.0034	0.0092	0.0297	0.0525	0.0500	0.3028
840	1.0502	0.0069	0.0032	0.0054	0.0133	0.0099	0.0044	0.0012	0.0004	0.0014	0.0063	0.0135	0.0141	0.0800
841	0.1102	0.0003	0.0005	0.0013	0.0009	0.0003	0.0000	0.0000	0.0001	0.0005	0.0011	0.0014	0.0007	0.0071
842	0.1308	0.0008	0.0004	0.0007	0.0016	0.0010	0.0003	0.0000	0.0000	0.0001	0.0006	0.0015	0.0017	0.0086
843	6.8981	0.0502	0.0229	0.0396	0.0965	0.0673	0.0262	0.0118	0.0074	0.0192	0.0608	0.1087	0.1038	0.6143
844	0.0754	0.0005	0.0002	0.0004	0.0009	0.0005	0.0001	0.0000	0.0000	0.0000	0.0002	0.0008	0.0009	0.0046
845	0.0213	0.0001	0.0001	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0002	0.0003	0.0014
846	0.0254	0.0001	0.0001	0.0001	0.0003	0.0002	0.0001	0.0001	0.0000	0.0000	0.0001	0.0003	0.0003	0.0017
847	0.2893	0.0020	0.0010	0.0016	0.0037	0.0025	0.0008	0.0003	0.0001	0.0006	0.0023	0.0043	0.0042	0.0234
848	2.7345	0.0193	0.0086	0.0161	0.0381	0.0281	0.0137	0.0054	0.0026	0.0066	0.0223	0.0412	0.0398	0.2419
849	1.6469	0.0116	0.0054	0.0099	0.0229	0.0173	0.0093	0.0040	0.0019	0.0046	0.0146	0.0253	0.0238	0.1506
850	0.2326	0.0015	0.0007	0.0013	0.0028	0.0014	0.0004	0.0001	0.0000	0.0002	0.0011	0.0028	0.0031	0.0154
851	0.2326	0.0015	0.0007	0.0013	0.0028	0.0014	0.0004	0.0001	0.0000	0.0002	0.0011	0.0028	0.0031	0.0154
852	5.4305	0.0383	0.0174	0.0296	0.0751	0.0564	0.0247	0.0092	0.0048	0.0131	0.0447	0.0821	0.0797	0.4752
853	5.3264	0.0371	0.0163	0.0297	0.0730	0.0529	0.0250	0.0092	0.0043	0.0118	0.0412	0.0784	0.0769	0.4557
854	0.0267	0.0002	0.0001	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0017
855	0.1517	0.0009	0.0004	0.0008	0.0018	0.0011	0.0004	0.0001	0.0000	0.0000	0.0005	0.0015	0.0018	0.0095
856	0.0258	0.0001	0.0001	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0018
857	0.9950	0.0067	0.0032	0.0055	0.0127	0.0090	0.0036	0.0011	0.0005	0.0017	0.0068	0.0136	0.0138	0.0783
858	0.0328	0.0002	0.0001	0.0002	0.0004	0.0003	0.0001	0.0001	0.0000	0.0000	0.0002	0.0004	0.0004	0.0024
859	3.4439	0.0245	0.0113	0.0200	0.0468	0.0345	0.0189	0.0087	0.0037	0.0090	0.0305	0.0526	0.0502	0.3107
860	0.0367	0.0002	0.0001	0.0002	0.0004	0.0003	0.0001	0.0000	0.0000	0.0000	0.0001	0.0004	0.0004	0.0024

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
861	3.0772	0.0206	0.0091	0.0167	0.0409	0.0309	0.0160	0.0059	0.0024	0.0070	0.0246	0.0452	0.0431	0.2623
862	0.0597	0.0004	0.0002	0.0003	0.0007	0.0005	0.0002	0.0001	0.0000	0.0001	0.0003	0.0007	0.0008	0.0044
863	0.2171	0.0014	0.0007	0.0012	0.0026	0.0015	0.0004	0.0001	0.0000	0.0001	0.0010	0.0025	0.0029	0.0145
864	0.1687	0.0011	0.0006	0.0009	0.0021	0.0013	0.0004	0.0001	0.0000	0.0001	0.0008	0.0020	0.0023	0.0117
865	0.0255	0.0002	0.0001	0.0001	0.0003	0.0002	0.0001	0.0000	0.0000	0.0000	0.0001	0.0003	0.0003	0.0018
866	0.0995	0.0007	0.0003	0.0005	0.0012	0.0008	0.0002	0.0000	0.0000	0.0001	0.0005	0.0012	0.0013	0.0068
867	7.0547	0.0484	0.0210	0.0379	0.0962	0.0726	0.0350	0.0131	0.0062	0.0167	0.0572	0.1059	0.1016	0.6117
868	0.0592	0.0004	0.0002	0.0003	0.0007	0.0005	0.0002	0.0001	0.0000	0.0001	0.0003	0.0007	0.0008	0.0044
869	0.2172	0.0014	0.0007	0.0012	0.0026	0.0015	0.0004	0.0001	0.0000	0.0001	0.0010	0.0025	0.0029	0.0145
870	0.1687	0.0011	0.0006	0.0009	0.0021	0.0013	0.0004	0.0001	0.0000	0.0001	0.0008	0.0020	0.0023	0.0117
871	0.0997	0.0007	0.0003	0.0005	0.0012	0.0008	0.0002	0.0000	0.0000	0.0001	0.0005	0.0012	0.0013	0.0068
872	7.1256	0.0489	0.0212	0.0383	0.0972	0.0731	0.0348	0.0129	0.0062	0.0167	0.0575	0.1069	0.1027	0.6163
873	25.8389	0.1852	0.0868	0.1438	0.3637	0.2753	0.1262	0.0519	0.0273	0.0683	0.2201	0.3954	0.3839	2.3280
874	0.1140	0.0007	0.0004	0.0006	0.0014	0.0010	0.0005	0.0002	0.0001	0.0001	0.0006	0.0014	0.0015	0.0083
875	0.0854	0.0006	0.0003	0.0005	0.0010	0.0007	0.0003	0.0001	0.0000	0.0001	0.0004	0.0010	0.0011	0.0060
876	0.4446	0.0032	0.0016	0.0026	0.0058	0.0041	0.0017	0.0008	0.0004	0.0011	0.0037	0.0067	0.0066	0.0383
877	5.2953	0.0394	0.0186	0.0315	0.0762	0.0556	0.0232	0.0110	0.0062	0.0162	0.0501	0.0880	0.0824	0.4984
878	4.0376	0.0316	0.0153	0.0257	0.0600	0.0451	0.0231	0.0107	0.0056	0.0145	0.0421	0.0697	0.0646	0.4080
879	0.0701	0.0005	0.0002	0.0004	0.0008	0.0004	0.0001	0.0000	0.0000	0.0000	0.0003	0.0008	0.0009	0.0045
880	6.7158	0.0505	0.0240	0.0398	0.0939	0.0730	0.0382	0.0165	0.0085	0.0215	0.0660	0.1117	0.1039	0.6474
881	0.0457	0.0003	0.0001	0.0002	0.0005	0.0003	0.0001	0.0000	0.0000	0.0000	0.0001	0.0005	0.0006	0.0028
882	0.2844	0.0017	0.0008	0.0014	0.0032	0.0014	0.0004	0.0001	0.0000	0.0000	0.0006	0.0025	0.0033	0.0154
883	0.2902	0.0027	0.0014	0.0012	0.0027	0.0029	0.0019	0.0009	0.0003	0.0002	0.0011	0.0027	0.0037	0.0216
884	9.0634	0.1053	0.0519	0.0416	0.0946	0.1149	0.0873	0.0599	0.0333	0.0304	0.0722	0.1281	0.1531	0.9726
885	0.1466	0.0014	0.0007	0.0006	0.0014	0.0016	0.0011	0.0006	0.0003	0.0002	0.0007	0.0016	0.0020	0.0124
886	8.7433	0.1012	0.0507	0.0413	0.0909	0.1083	0.0812	0.0545	0.0299	0.0283	0.0685	0.1218	0.1463	0.9229
887	1.2169	0.0129	0.0062	0.0048	0.0121	0.0151	0.0114	0.0077	0.0039	0.0032	0.0085	0.0158	0.0190	0.1206
888	11.4533	0.1315	0.0651	0.0527	0.1187	0.1438	0.1085	0.0742	0.0425	0.0394	0.0916	0.1616	0.1918	1.2215
889	0.8397	0.0093	0.0044	0.0036	0.0089	0.0104	0.0077	0.0051	0.0028	0.0024	0.0056	0.0108	0.0134	0.0844
890	18.5665	0.2134	0.1069	0.0867	0.1930	0.2256	0.1669	0.1119	0.0608	0.0549	0.1373	0.2525	0.3070	1.9166
891	0.0890	0.0006	0.0003	0.0002	0.0008	0.0011	0.0007	0.0003	0.0001	0.0000	0.0002	0.0005	0.0008	0.0055

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
892	0.3537	0.0035	0.0018	0.0015	0.0034	0.0039	0.0027	0.0015	0.0006	0.0006	0.0017	0.0038	0.0049	0.0299
893	0.0680	0.0004	0.0002	0.0002	0.0006	0.0008	0.0005	0.0003	0.0001	0.0000	0.0001	0.0004	0.0006	0.0042
894	0.0772	0.0005	0.0002	0.0002	0.0006	0.0009	0.0006	0.0003	0.0001	0.0000	0.0001	0.0004	0.0007	0.0047
895	7.0878	0.0738	0.0352	0.0266	0.0657	0.0885	0.0675	0.0451	0.0242	0.0199	0.0467	0.0875	0.1078	0.6886
896	26.4622	0.2748	0.1361	0.1257	0.2679	0.3070	0.2201	0.1415	0.0755	0.0704	0.1613	0.3069	0.3778	2.4649
897	31.2861	0.3351	0.1717	0.1597	0.3170	0.3737	0.2685	0.1781	0.0989	0.0884	0.1951	0.3687	0.4579	3.0128
898	16.0349	0.1690	0.0903	0.1074	0.2505	0.3148	0.2190	0.1403	0.0695	0.0531	0.1065	0.1945	0.2348	1.9497
899	6.2358	0.0679	0.0358	0.0393	0.0856	0.1007	0.0698	0.0447	0.0227	0.0191	0.0408	0.0757	0.0927	0.6946

Table AG.5: Total monthly surface runoff (mm over watershed) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Surface Runoff (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	37.68	67.96	103.91	33.15	34.31	32.40	20.50	30.12	41.19	29.34	40.13	41.46	512.14
602	0.2196	39.56	70.69	108.56	37.48	40.38	38.20	24.87	34.93	48.44	35.60	45.72	44.18	568.61
603	0.3655	39.81	70.96	109.49	40.59	38.05	35.95	23.45	33.63	46.60	32.89	44.66	44.78	560.85
604	0.7529	39.49	70.35	108.70	39.73	35.41	33.61	21.39	32.11	44.03	30.52	42.00	44.26	541.61
605	3.2117	37.98	68.29	105.40	34.70	35.82	34.34	21.76	32.02	43.04	31.02	40.52	41.93	526.82
606	0.1626	39.68	71.18	108.49	36.58	39.60	37.14	24.13	33.57	47.37	34.16	45.13	43.72	560.75
607	14.1530	37.73	69.45	106.65	31.80	22.98	21.71	11.66	18.28	26.82	16.93	31.35	39.90	435.26
608	27.4480	35.40	66.26	101.74	26.78	20.21	19.52	10.08	16.93	24.48	15.12	27.13	36.66	400.31
609	10.9853	34.97	67.02	103.15	29.60	22.19	21.01	11.78	18.95	26.82	16.57	28.20	36.01	416.27
610	14.7211	35.79	67.39	102.37	27.05	23.07	22.15	12.48	19.65	27.94	17.78	29.90	37.37	422.93
611	26.6505	35.57	65.33	101.21	29.34	25.58	24.99	14.64	23.24	31.06	20.65	31.04	37.74	440.41
612	11.2644	35.73	67.23	102.46	27.37	23.56	22.57	13.02	20.98	29.09	18.28	30.23	37.38	427.93
613	0.2886	39.33	71.10	109.96	39.25	28.89	25.43	12.66	17.23	26.44	19.88	37.56	42.75	470.49
614	1.3068	39.37	70.16	107.86	35.75	35.34	33.38	20.58	30.44	42.13	30.18	41.64	43.61	530.43
615	0.1323	39.57	70.93	109.37	39.29	36.52	33.57	19.27	26.98	38.32	28.88	42.47	44.34	529.50
616	6.6770	33.89	64.77	99.40	26.87	23.35	22.55	12.77	20.67	28.09	18.16	28.32	35.52	414.37
617	6.6685	35.45	66.72	102.43	28.52	22.29	21.16	11.40	19.07	26.75	16.82	28.74	37.23	416.57
618	23.0036	36.49	67.58	103.04	28.14	24.01	22.91	12.98	21.51	30.05	19.02	31.01	38.60	435.33
619	3.0191	37.15	67.34	103.81	32.45	30.22	28.92	17.31	27.37	36.79	25.06	35.52	40.36	482.31
620	8.1604	34.88	65.53	100.38	28.14	25.33	24.43	14.01	22.37	30.49	19.94	30.49	36.98	432.96
621	0.3152	39.38	70.20	107.57	34.78	32.20	30.22	17.27	25.50	36.62	26.24	39.07	43.50	502.55
622	1.1440	39.73	70.54	107.58	33.74	33.11	31.07	18.23	27.50	39.08	27.57	40.01	43.69	511.85
623	1.8901	38.50	68.27	104.68	31.04	31.91	30.52	18.13	28.45	39.49	27.55	37.30	41.50	497.34
624	12.2594	39.36	70.82	107.15	29.40	26.01	24.71	13.93	21.61	31.58	20.71	34.90	42.10	462.27
625	15.6152	36.45	67.94	103.04	28.42	25.27	24.23	14.12	22.55	31.56	19.82	31.77	38.45	443.63
626	0.7993	39.19	70.22	107.34	33.49	34.06	32.23	20.11	29.79	40.52	28.69	40.68	43.15	519.45
627	0.1828	39.03	70.03	107.26	33.33	34.28	32.72	20.73	30.33	40.65	29.08	40.81	42.94	521.19
628	7.4942	37.24	68.19	103.84	29.93	27.75	26.67	15.80	25.12	34.88	22.54	33.89	39.86	465.71
629	0.1004	39.34	71.12	108.22	34.50	30.10	27.35	14.54	22.75	32.94	22.03	36.86	42.26	482.01
630	3.7583	37.30	67.74	103.27	29.48	28.46	27.49	16.36	26.48	36.37	23.30	34.07	39.96	470.29
631	0.0635	38.76	70.66	106.03	29.70	28.35	25.90	14.56	24.92	35.02	21.88	35.32	40.88	471.99
632	13.3844	36.86	68.37	103.08	26.95	25.60	24.64	14.23	22.30	31.88	20.25	32.11	38.67	444.96
633	0.5487	37.93	68.77	105.70	33.07	32.23	30.67	18.66	27.85	37.37	26.42	38.17	41.58	498.40

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	38.93	70.21	107.07	34.67	33.91	31.53	18.63	26.80	38.48	26.99	40.22	42.65	510.08
635	5.9121	36.60	67.53	103.10	29.39	28.09	27.18	16.10	25.06	34.44	22.67	33.50	39.15	462.82
636	12.5299	36.07	67.79	102.53	26.37	22.74	22.00	12.26	19.59	28.16	17.32	29.53	37.55	421.90
637	0.0577	42.03	56.31	67.61	26.37	25.91	27.04	13.62	23.00	31.35	20.01	32.27	35.00	400.52
638	5.3140	38.11	68.63	104.77	32.30	31.54	30.35	18.35	27.95	38.82	26.43	37.16	41.47	495.87
639	14.0470	38.59	53.15	61.22	17.72	15.88	17.28	8.17	16.68	22.51	12.25	21.41	31.05	315.91
640	0.1244	43.25	57.70	68.38	26.10	25.24	26.83	13.73	23.54	31.01	19.71	32.80	36.66	404.96
641	1.0287	44.00	57.10	69.36	27.39	29.14	30.66	16.83	29.02	38.34	25.76	35.92	38.24	441.75
642	0.0691	42.85	57.20	70.64	28.41	19.55	19.24	5.58	9.92	15.43	10.53	28.51	36.95	344.82
643	5.2502	42.43	55.28	66.22	23.45	24.76	26.83	14.25	26.33	34.50	21.38	30.54	35.92	401.88
644	0.6674	43.94	57.92	69.31	26.06	25.07	26.35	13.51	23.49	31.55	20.40	33.11	38.04	408.77
645	4.0982	41.32	53.81	64.75	21.81	22.25	24.56	12.79	24.24	31.39	18.63	27.33	34.31	377.19
646	0.1058	42.58	56.26	64.23	20.04	21.43	22.68	11.96	25.44	33.24	18.28	28.43	35.36	379.93
647	2.9632	42.40	55.59	66.37	23.46	23.82	25.74	13.51	24.90	32.97	20.28	29.92	35.75	394.71
648	1.4051	42.08	55.53	66.05	22.61	21.80	23.23	11.90	23.24	30.94	18.38	28.00	35.12	378.88
649	0.0674	43.32	57.36	64.92	20.54	21.77	23.36	12.47	26.00	34.24	18.53	28.80	35.12	386.44
650	6.3381	22.92	49.49	76.28	16.30	8.39	7.52	2.82	5.78	9.47	4.32	12.32	21.10	236.72
651	4.8242	30.28	42.34	49.15	13.46	11.75	12.88	5.77	12.54	16.83	8.91	16.17	24.20	244.28
652	16.2879	37.75	52.18	60.48	17.74	15.11	16.61	7.65	16.15	21.70	11.31	20.17	29.83	306.70
653	3.0394	40.39	53.36	63.09	19.69	19.58	22.03	11.05	22.21	28.42	15.62	24.72	33.21	353.34
654	11.9029	39.46	53.79	62.60	19.08	16.28	17.91	8.45	17.54	23.38	12.44	22.10	31.87	324.90
655	0.0840	44.33	58.68	66.39	22.14	24.03	25.42	14.12	27.41	36.67	20.75	31.59	36.47	408.00
656	5.1345	39.65	53.62	62.96	19.93	17.56	19.31	9.39	19.06	25.02	13.63	23.09	32.42	335.65
657	0.0735	43.51	58.09	69.18	27.11	26.56	27.49	14.58	24.20	33.24	21.80	34.35	36.95	417.06
658	0.0458	43.52	57.55	68.26	27.08	31.12	33.20	19.22	31.88	42.41	27.13	37.73	36.89	456.00
659	0.0658	42.37	56.82	68.00	26.15	24.91	25.99	13.30	22.61	30.94	19.64	31.86	35.69	398.27
660	8.5454	40.13	54.51	62.75	19.02	17.68	19.53	9.51	19.28	25.64	13.85	23.51	32.40	337.83
661	0.0307	41.31	55.67	65.40	25.58	29.18	30.91	17.81	29.13	39.70	24.59	35.18	33.83	428.28
662	8.8341	39.84	54.06	62.29	18.63	17.39	19.42	9.39	19.01	25.41	13.56	22.94	32.02	333.98
663	0.5166	42.40	56.07	66.20	22.52	22.52	24.96	13.21	24.44	31.23	18.39	29.22	35.71	386.86
664	0.0522	40.12	54.61	65.02	24.63	19.82	20.51	8.96	15.29	22.27	13.37	26.77	32.72	344.10
665	6.5997	40.48	54.25	63.61	19.60	18.13	19.96	9.38	18.69	24.97	13.98	23.85	33.24	340.13
666	0.0636	42.59	57.38	70.36	27.66	17.14	16.22	3.52	6.50	11.44	8.23	26.78	36.23	324.05
667	0.0706	43.10	57.72	71.46	28.27	17.71	16.78	3.69	6.78	11.76	8.63	27.26	37.13	330.29
668	1.8870	41.64	55.15	66.77	23.30	18.27	19.29	7.81	15.33	21.10	12.62	25.29	35.42	342.00

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	40.96	55.33	63.33	18.99	18.26	20.16	9.85	19.75	26.18	14.37	24.47	33.32	344.97
670	5.7881	38.95	53.21	62.56	19.95	16.73	18.58	8.97	18.31	23.83	12.76	22.34	31.48	327.68
671	0.3355	43.42	57.43	68.46	25.63	25.22	26.65	13.93	24.20	32.93	20.90	32.79	37.16	408.73
672	0.9395	43.21	57.39	67.46	22.60	20.29	21.97	11.16	21.12	28.55	16.35	27.57	36.63	374.30
673	7.9997	39.51	54.22	62.85	18.77	15.11	16.71	7.78	16.33	21.51	11.37	21.26	31.71	317.14
674	0.0497	41.08	57.69	71.54	26.57	9.06	8.09	0.96	2.01	7.08	4.11	17.16	33.73	279.08
675	0.1866	40.57	56.50	70.85	26.43	9.18	8.41	1.20	2.62	7.55	4.34	17.02	33.87	278.54
676	5.5909	40.08	54.15	64.33	22.89	20.28	21.71	11.42	21.54	28.49	16.70	26.46	33.36	361.39
677	0.0398	39.49	55.88	68.76	25.33	8.93	8.07	1.02	2.32	7.20	3.93	16.53	31.93	269.39
678	0.1595	39.82	54.47	68.71	31.81	24.75	25.31	15.22	23.58	31.58	20.99	31.80	34.93	402.97
679	0.6001	33.77	47.80	58.92	27.44	21.45	22.05	13.81	22.83	29.07	18.73	27.04	30.01	352.93
701	0.1254	40.27	53.24	68.92	34.24	22.99	22.02	11.81	20.47	28.40	18.44	30.64	36.75	388.20
702	0.0799	41.32	54.93	70.14	35.11	23.81	22.83	12.68	21.06	29.70	19.25	32.60	37.71	401.15
703	0.2377	41.03	53.95	70.02	35.06	23.66	22.56	12.26	20.93	29.08	19.35	31.73	37.86	397.49
704	0.2098	40.96	53.98	69.91	34.96	23.60	22.54	12.25	20.90	29.06	19.25	31.70	37.73	396.84
705	1.3627	39.94	52.19	68.52	34.61	24.54	23.72	13.06	22.54	30.26	20.25	31.26	36.66	397.55
706	0.2602	40.86	53.53	70.03	38.41	37.31	38.53	24.37	39.16	48.88	33.87	43.67	38.28	506.91
707	0.3074	40.33	52.83	69.26	37.90	36.83	38.15	23.97	38.93	48.30	33.28	42.73	37.59	500.09
708	1.8884	40.59	53.63	69.08	36.26	32.60	33.12	20.07	32.58	41.41	28.29	39.11	37.25	464.01
709	0.1895	41.61	55.12	68.24	32.26	32.59	33.61	20.12	33.22	42.86	28.66	39.38	36.60	464.27
710	1.1343	40.99	54.80	66.43	25.26	20.23	20.94	10.33	19.65	26.83	16.26	27.37	34.67	363.75
711	0.0620	38.68	53.04	65.47	23.28	11.85	13.03	5.04	12.95	17.45	8.05	19.79	30.96	299.60
712	2.1799	40.98	55.60	67.82	24.10	13.99	14.39	5.83	13.10	18.91	10.16	22.06	34.02	320.97
713	2.0642	38.83	53.73	62.50	18.58	13.54	13.66	5.43	12.04	17.62	10.10	20.92	31.30	298.26
714	0.9506	42.25	55.99	65.63	20.64	18.44	19.42	8.86	18.93	25.32	14.99	26.83	35.41	352.72
715	1.6470	39.47	54.48	62.12	16.95	14.80	14.89	6.23	13.11	19.68	11.66	21.55	31.22	306.14
716	0.0265	41.59	56.98	68.67	25.24	12.31	10.34	1.60	3.80	8.67	5.63	22.54	34.99	292.36
717	0.0813	44.25	58.19	68.22	24.24	24.68	25.07	11.94	22.52	32.21	21.67	34.11	37.53	404.63
718	0.0364	38.55	53.13	64.54	23.27	12.57	11.59	2.43	5.93	10.44	6.26	21.67	31.72	282.08
719	3.9405	40.18	54.28	63.42	18.96	15.70	15.50	6.11	13.70	20.45	12.57	23.12	32.58	316.57
720	2.9784	38.79	53.80	61.30	16.60	13.15	12.83	4.82	11.36	17.36	10.21	20.55	30.96	291.73
721	0.1524	42.25	56.63	68.79	25.08	16.63	15.89	5.50	10.95	16.44	11.03	26.95	36.22	332.37
722	3.9243	39.67	54.22	63.20	19.09	15.35	15.24	6.19	13.20	19.56	12.07	22.85	32.26	312.90
723	0.0279	43.53	58.36	67.06	23.49	24.29	24.95	11.87	22.65	32.39	20.70	33.06	35.66	398.00
724	0.2535	44.00	57.70	69.42	28.52	29.72	30.01	16.39	27.87	38.12	26.44	38.62	38.52	445.33

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	40.84	54.58	66.38	29.36	31.50	32.56	18.73	31.29	40.73	26.85	37.41	34.72	444.94
726	1.3912	42.80	56.85	67.83	23.24	18.92	19.66	9.04	18.31	25.57	15.59	27.47	36.17	361.45
727	3.2773	35.98	50.66	59.11	16.35	12.06	11.80	4.52	9.88	15.24	9.13	18.65	28.61	271.99
728	0.3486	43.44	56.66	67.65	23.34	23.20	23.47	10.68	20.88	29.70	20.28	31.75	36.71	387.76
729	1.9885	35.26	50.75	59.16	16.17	10.60	10.33	3.69	8.50	13.37	7.64	17.03	27.39	259.87
730	13.8867	40.92	61.13	79.16	25.52	17.89	16.34	8.57	13.73	23.25	13.25	22.65	32.48	354.89
731	0.1371	43.18	57.73	69.07	25.84	20.86	21.61	10.38	18.27	24.55	15.96	29.46	36.84	373.75
732	0.0378	39.30	53.95	65.98	25.02	10.55	8.60	1.16	2.75	7.38	4.98	19.25	31.99	270.90
733	0.9503	39.13	54.01	65.13	20.94	16.63	17.43	7.99	15.03	20.93	12.72	22.64	31.92	324.49
734	1.1721	37.85	52.99	61.59	17.94	14.97	16.14	7.45	14.87	20.55	11.33	19.79	29.66	305.14
735	0.1015	42.75	56.85	68.88	24.81	18.03	20.10	9.78	19.58	25.97	13.78	26.43	35.74	362.70
736	9.8639	36.05	50.86	58.99	16.88	13.63	14.80	6.68	13.94	19.00	10.18	18.92	28.26	288.20
737	0.1350	44.17	58.24	69.58	27.85	29.43	30.69	17.25	28.38	38.43	25.56	37.13	38.34	445.04
738	2.7769	43.73	64.15	82.47	26.79	20.60	18.71	10.46	16.17	26.61	15.75	25.77	35.23	386.45
739	4.5566	44.21	63.71	81.67	28.22	22.43	20.87	11.90	18.41	29.56	17.54	27.73	36.57	402.81
740	0.0420	39.74	53.94	63.57	22.42	23.60	25.61	13.76	24.31	30.96	18.60	29.22	33.02	378.77
741	1.3845	45.48	65.14	86.31	34.78	23.07	21.12	11.80	17.95	28.58	17.73	29.10	38.92	419.99
742	3.0189	43.77	63.99	83.97	31.95	20.84	18.99	10.39	16.26	26.66	15.60	26.82	36.86	396.09
743	0.3395	45.79	64.62	84.83	35.56	29.71	27.04	16.16	24.07	36.92	24.30	33.75	39.61	462.36
744	0.0668	45.99	64.56	85.37	37.42	33.98	30.90	19.05	27.34	40.88	28.52	37.53	40.29	491.82
745	0.0587	46.32	65.59	87.63	37.82	29.11	25.94	14.64	21.09	32.53	22.47	33.40	40.12	456.67
746	2.7704	43.12	63.42	82.95	30.35	20.57	18.46	10.04	15.68	26.30	15.07	25.51	35.49	386.94
747	1.2664	39.99	61.02	80.46	24.98	15.92	14.58	7.59	12.10	21.20	11.65	20.37	30.89	340.76
748	4.2834	46.13	66.01	84.93	29.31	21.26	19.19	10.41	16.31	27.31	16.35	27.59	38.30	403.10
749	7.1426	28.51	47.00	61.73	19.41	17.13	17.65	23.95	14.34	35.52	20.38	27.03	26.19	338.84
750	4.4702	23.34	42.91	57.64	15.47	10.33	10.97	15.53	8.30	22.58	11.68	17.85	19.75	256.35
751	0.1943	27.33	46.21	59.17	16.87	17.79	18.49	25.50	15.95	37.28	19.47	25.63	24.55	334.23
752	3.9813	24.52	44.05	59.10	18.07	12.58	12.69	17.47	9.78	25.99	14.09	20.42	21.40	280.16
753	1.8866	24.11	43.22	57.47	14.91	11.96	12.82	18.06	10.11	26.44	13.58	19.45	20.67	272.79
754	2.1167	21.49	40.91	54.69	13.43	8.83	9.28	13.58	6.98	19.94	9.72	15.32	17.59	231.76
755	0.1806	29.84	47.30	62.37	20.68	21.92	22.10	28.83	18.33	43.45	26.92	31.99	27.83	381.56
756	0.9717	18.28	37.71	53.01	13.61	5.56	5.99	9.11	4.10	13.20	5.97	11.13	14.18	191.82
757	1.6273	17.40	35.75	48.52	12.86	8.08	8.27	11.81	6.39	16.89	8.72	12.94	14.11	201.71
758	0.1636	27.34	45.71	62.60	21.41	11.64	12.05	15.62	7.28	23.12	11.76	21.59	24.85	284.96
759	0.6767	19.11	38.67	55.16	18.27	4.65	4.71	6.44	1.50	9.57	3.87	11.36	15.75	189.07

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
760	1.6425	12.24	29.77	41.63	8.32	4.49	4.74	7.21	3.68	9.88	4.91	7.63	9.06	143.57
761	5.4201	23.58	42.18	55.91	15.84	13.25	13.85	19.20	11.22	27.97	15.22	20.59	20.49	279.31
762	0.0473	25.22	45.32	61.10	20.26	10.38	10.81	15.52	8.74	23.82	10.92	18.85	21.75	272.69
763	0.9776	21.19	39.75	53.70	13.77	9.81	10.25	14.34	8.08	21.32	11.76	16.44	17.68	238.11
764	0.0327	24.76	43.88	59.89	23.53	12.03	13.86	20.62	11.72	28.47	12.31	20.67	23.33	295.05
801	0.1899	27.73	45.30	63.32	35.28	25.03	23.58	31.69	21.31	44.17	26.63	33.66	28.23	405.93
802	0.1652	27.82	45.04	63.35	35.19	24.94	23.51	31.53	21.33	43.97	26.71	33.40	28.11	404.91
803	0.0207	21.89	40.62	56.47	30.10	27.66	27.53	37.11	25.37	47.65	24.76	30.24	20.42	389.81
804	0.1544	27.36	45.49	63.16	36.62	30.08	28.45	37.46	25.78	51.71	32.00	37.85	27.95	443.90
805	0.4573	24.91	42.36	59.41	33.22	29.68	28.06	36.01	25.43	49.64	32.45	36.44	25.15	422.77
806	0.0286	24.40	43.09	60.22	27.63	22.94	22.34	26.81	15.13	34.67	18.85	28.22	22.61	346.92
807	4.6905	22.52	41.04	54.92	15.02	10.80	11.24	15.65	8.64	22.77	12.07	18.01	19.41	252.08
808	0.0318	24.20	42.66	59.22	32.86	35.62	33.70	42.41	29.27	56.70	35.28	38.70	23.41	454.02
809	0.0208	25.69	44.84	61.54	37.17	42.63	40.03	51.06	36.43	68.45	43.66	46.19	25.50	523.20
810	0.2197	28.12	46.04	61.60	24.78	27.68	27.19	35.22	24.28	50.46	31.35	35.05	26.56	418.34
811	3.6146	25.86	44.51	58.07	15.26	13.80	14.56	20.44	12.00	30.13	16.20	22.17	22.83	295.84
812	4.5811	26.09	44.83	59.35	18.30	14.76	15.50	21.38	12.59	31.23	16.80	23.27	23.27	307.37
813	0.0763	27.15	46.06	63.75	31.35	25.42	24.16	29.42	17.95	40.44	24.97	33.67	26.81	391.15
814	4.3673	27.58	45.77	60.25	18.60	17.61	18.17	24.35	14.75	35.84	20.45	26.41	24.95	334.73
815	0.0444	28.63	47.48	65.96	27.22	12.20	11.78	12.95	3.63	18.72	10.01	23.95	27.81	290.36
816	0.6943	28.99	46.22	62.19	22.89	23.94	23.96	30.63	19.87	44.98	28.22	32.65	26.85	391.40
817	0.1234	28.41	46.11	63.00	24.17	19.02	18.88	23.41	13.24	34.24	20.25	28.29	26.42	345.43
818	2.1621	27.78	46.39	61.31	20.13	18.15	18.48	24.70	14.72	35.97	20.97	27.15	25.38	341.11
819	0.1383	28.16	45.97	62.51	24.91	21.51	21.13	25.53	14.56	36.52	22.24	30.16	26.37	359.54
820	0.1090	28.67	47.12	63.86	27.51	24.67	23.65	28.27	16.31	39.93	25.46	33.74	27.69	386.87
821	7.7087	26.43	44.75	59.18	18.12	15.73	16.49	22.59	13.35	32.67	18.07	24.04	23.48	314.89
822	0.0462	27.66	46.77	64.49	28.59	18.21	17.49	18.63	7.39	24.96	14.48	27.68	26.72	323.08
823	2.7867	27.03	45.48	60.15	19.80	16.97	17.50	23.23	13.43	33.64	18.74	25.64	24.60	326.21
824	2.7875	26.60	44.63	59.04	19.42	18.64	19.18	25.50	15.45	36.66	20.89	26.57	24.01	336.58
825	0.0888	28.09	47.13	62.39	24.52	23.20	22.79	28.59	16.82	41.04	24.18	31.73	26.64	377.13
826	7.6250	27.94	46.46	60.61	18.27	17.23	17.83	24.13	14.60	35.69	20.20	26.38	25.43	334.79
827	0.0354	25.75	44.81	60.80	23.46	19.51	19.75	24.17	13.01	32.88	17.96	26.16	23.76	332.01
828	0.0299	24.75	43.22	59.30	22.91	17.99	18.55	22.99	11.82	30.82	16.25	24.31	22.31	315.21

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
829	0.0974	27.84	46.33	62.63	24.01	22.18	21.90	27.14	15.83	38.27	22.97	29.98	26.26	365.34
830	2.6253	28.02	45.03	60.93	20.91	20.02	20.56	26.77	16.97	39.19	23.64	28.28	25.20	355.50
831	0.2743	29.34	46.32	62.45	22.73	25.06	25.02	31.66	20.67	46.66	30.00	33.98	27.27	401.14
832	0.1364	28.30	45.44	61.35	21.92	23.43	23.47	29.61	18.73	43.20	26.95	31.63	25.95	379.98
833	4.9042	26.58	44.81	59.00	17.60	16.22	17.00	23.16	13.93	33.72	18.64	24.40	23.64	318.69
834	0.0303	24.08	36.18	38.50	14.59	15.22	15.94	20.02	9.92	27.58	10.90	15.23	17.54	245.70
835	0.0645	31.12	43.43	49.65	22.96	20.38	18.81	21.19	10.38	30.21	14.47	24.78	26.34	313.72
836	2.1880	29.17	40.71	45.43	17.43	18.48	18.44	23.15	14.16	33.54	16.60	22.46	23.75	303.32
837	0.0337	29.00	40.88	46.34	20.76	17.70	16.67	18.59	8.04	26.42	11.14	19.90	22.86	278.30
838	0.0239	28.82	40.91	47.62	22.16	15.75	14.04	13.97	3.91	19.60	7.98	19.25	23.79	257.80
839	3.3264	28.44	40.41	44.12	14.57	15.90	16.21	20.93	12.31	30.57	14.11	19.87	22.45	279.88
840	1.0502	29.52	40.69	46.14	19.09	20.36	20.04	24.75	15.86	35.80	18.78	24.25	24.27	319.55
841	0.1102	42.53	47.81	21.25	23.06	21.99	26.76	16.45	38.38	20.47	25.53	25.91	30.87	341.00
842	0.1308	31.01	43.03	47.67	21.46	24.05	23.00	28.51	17.55	40.62	21.76	28.42	26.47	353.55
843	6.8981	29.42	41.73	45.11	15.26	16.82	16.98	22.15	13.01	31.93	15.10	21.29	23.70	292.49
844	0.0754	30.55	42.22	47.65	24.19	28.68	27.04	33.41	22.37	46.67	26.89	32.48	26.72	388.88
845	0.0213	29.92	42.15	46.57	22.54	28.35	26.95	33.77	21.67	46.74	23.66	29.09	24.39	375.81
846	0.0254	25.46	36.92	41.37	26.51	31.94	30.67	39.29	26.72	50.68	25.33	29.25	20.51	384.65
847	0.2893	30.38	41.70	46.12	18.07	20.97	20.15	26.58	18.54	38.90	19.53	24.71	24.83	330.47
848	2.7345	28.44	39.88	44.05	16.47	18.89	18.88	24.17	15.21	34.61	17.23	22.52	23.02	303.37
849	1.6469	27.99	39.19	43.22	16.58	18.99	18.90	24.45	15.72	34.93	17.18	22.47	22.89	302.51
850	0.2326	31.71	43.52	48.41	22.10	25.72	24.26	30.73	20.88	44.03	24.59	30.69	27.62	374.25
851	0.2326	31.71	43.52	48.41	22.11	25.73	24.27	30.73	20.88	44.04	24.59	30.70	27.62	374.32
852	5.4305	28.95	40.96	44.72	15.94	16.98	17.07	22.10	13.05	32.01	15.09	21.20	23.30	291.37
853	5.3264	29.12	40.71	44.80	16.32	18.78	18.79	24.10	14.79	34.31	16.98	22.63	23.57	304.90
854	0.0267	28.15	40.71	44.63	21.75	25.81	24.96	30.81	19.20	42.67	21.39	26.45	23.09	349.63
855	0.1517	29.81	41.03	46.53	23.19	27.27	25.98	31.97	21.39	44.71	25.37	30.55	25.68	373.48
856	0.0258	28.81	40.77	44.73	19.03	19.91	19.38	23.48	12.00	32.80	14.47	20.49	21.76	297.63
857	0.9950	30.43	41.78	46.24	18.84	22.18	21.76	27.46	17.74	39.21	20.53	26.25	25.54	337.96
858	0.0328	27.19	38.67	41.79	17.68	20.42	20.30	25.77	14.32	35.86	15.04	20.16	20.45	297.65
859	3.4439	28.09	39.36	43.43	15.50	18.17	18.37	23.55	14.60	33.71	16.33	21.41	22.37	294.87
860	0.0367	28.54	40.07	45.30	21.13	23.13	22.15	26.90	15.89	37.39	18.29	24.42	22.79	326.01
861	3.0772	29.75	40.80	45.44	17.81	20.48	20.43	26.09	16.79	36.99	18.75	24.29	24.63	322.24

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
862	0.0597	28.24	39.61	43.91	18.61	22.41	21.95	27.74	17.49	39.42	19.97	24.77	22.94	327.08
863	0.2171	30.87	42.39	47.44	21.17	24.32	23.47	29.05	18.71	41.56	22.92	28.76	26.44	357.09
864	0.1687	30.74	42.03	47.03	20.75	24.38	23.50	29.21	19.21	41.90	23.14	28.54	26.08	356.52
865	0.0255	29.90	42.17	45.86	19.52	24.15	23.35	29.63	18.23	42.02	20.48	25.96	24.01	345.28
866	0.0995	30.50	42.07	46.84	20.61	24.19	23.30	29.10	18.77	41.61	22.61	28.08	25.78	353.45
867	7.0547	29.43	41.05	45.09	16.51	18.27	18.39	23.74	14.41	33.82	16.37	22.30	23.95	303.34
868	0.0592	28.29	39.62	43.92	18.58	22.42	21.97	27.76	17.51	39.47	20.02	24.81	23.01	327.37
869	0.2172	30.86	42.38	47.45	21.16	24.31	23.45	29.03	18.68	41.53	22.88	28.74	26.42	356.89
870	0.1687	30.73	42.00	47.01	20.74	24.37	23.48	29.20	19.19	41.88	23.13	28.52	26.07	356.33
871	0.0997	30.47	42.05	46.83	20.59	24.17	23.28	29.08	18.74	41.58	22.57	28.05	25.75	353.15
872	7.1256	29.49	41.12	45.16	16.54	18.30	18.41	23.77	14.43	33.86	16.41	22.36	24.01	303.85
873	25.8389	28.28	40.23	44.01	14.94	15.66	16.00	20.66	11.93	29.82	13.84	19.55	22.28	277.19
874	0.1140	29.04	40.96	45.51	19.62	22.88	22.21	27.73	17.20	39.02	19.76	25.19	23.67	332.79
875	0.0854	29.01	40.64	45.11	19.40	22.89	22.26	27.84	17.63	39.42	20.93	26.06	24.28	335.46
876	0.4446	29.99	41.86	45.75	15.78	17.99	18.08	23.07	13.79	33.28	16.13	21.99	24.23	301.96
877	5.2953	28.77	40.91	44.46	13.81	14.52	14.98	19.45	11.12	28.59	13.03	18.87	22.70	271.21
878	4.0376	26.98	38.98	42.44	11.85	13.34	14.03	18.18	10.42	26.88	11.82	16.89	20.48	252.29
879	0.0701	31.32	43.72	47.99	22.00	25.51	24.50	31.13	19.34	43.78	24.08	30.54	27.07	370.98
880	6.7158	28.17	39.98	43.45	13.56	14.97	15.56	20.24	11.70	29.56	13.24	18.72	21.94	271.07
881	0.0457	30.84	42.88	48.24	24.51	29.07	27.47	34.27	22.68	47.39	26.84	32.14	26.54	392.86
882	0.2844	31.61	43.71	49.19	27.13	31.03	29.14	36.25	24.13	49.65	29.42	35.96	28.87	416.10
883	0.2902	33.22	45.84	51.05	29.43	32.61	30.29	38.04	24.76	51.98	32.25	40.29	31.77	441.53
884	9.0634	31.89	44.87	48.78	18.73	18.22	17.90	22.91	13.33	33.37	17.50	25.51	27.73	320.75
885	0.1466	32.85	45.30	50.60	27.28	29.73	27.95	35.35	23.06	48.68	29.26	37.11	30.97	418.13
886	8.7433	32.08	44.95	48.70	18.80	19.02	18.55	23.85	14.25	34.87	18.39	26.31	28.00	327.76
887	1.2169	32.52	45.25	50.22	22.06	21.16	20.55	25.80	15.88	36.96	20.14	28.65	29.26	348.45
888	11.4533	32.01	44.75	48.78	20.09	20.10	19.55	25.26	15.32	36.47	19.57	27.44	28.30	337.64
889	0.8397	32.72	45.39	49.21	20.02	21.69	21.03	27.38	16.27	37.28	21.08	29.18	28.90	350.15
890	18.5665	32.34	45.00	48.74	18.93	19.94	19.47	25.02	14.89	36.12	19.41	27.22	28.35	335.43
891	0.0890	31.81	44.11	52.45	41.65	43.85	39.97	50.68	36.36	64.79	42.74	51.05	33.18	532.63
892	0.3537	33.01	45.48	50.38	26.06	28.71	26.96	34.50	22.38	47.36	28.26	36.27	30.80	410.18
893	0.0680	31.58	43.76	52.34	42.09	44.38	40.43	51.07	36.97	65.32	43.15	51.32	33.10	535.52
894	0.0772	32.08	44.26	53.02	39.81	39.92	36.14	44.64	31.24	57.42	37.56	47.35	33.20	496.66

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
895	7.0878	32.58	45.26	51.14	23.61	20.38	19.63	24.68	14.79	35.07	19.17	28.41	29.48	344.19
896	26.4622	30.95	46.79	40.82	20.19	19.59	22.78	23.82	20.54	31.33	21.99	28.49	29.80	337.10
897	31.2861	30.21	45.98	40.33	18.00	16.36	19.34	19.68	16.89	26.65	18.50	25.11	28.00	305.04
898	16.0349	17.64	30.18	26.99	14.14	10.21	11.49	11.34	9.65	14.90	10.42	15.46	16.35	188.78
899	6.2358	23.00	37.18	32.27	15.41	14.31	16.46	17.21	14.76	22.68	15.93	20.92	21.50	251.63

Table AG.6: Total monthly surface runoff (cms) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Surface Runoff (cms)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	0.0210	0.0419	0.0579	0.0191	0.0191	0.0187	0.0114	0.0168	0.0237	0.0163	0.0231	0.0231	0.2921
602	0.2196	0.0032	0.0064	0.0089	0.0032	0.0033	0.0032	0.0020	0.0029	0.0041	0.0029	0.0039	0.0036	0.0477
603	0.3655	0.0054	0.0107	0.0149	0.0057	0.0052	0.0051	0.0032	0.0046	0.0066	0.0045	0.0063	0.0061	0.0783
604	0.7529	0.0111	0.0219	0.0306	0.0115	0.0100	0.0098	0.0060	0.0090	0.0128	0.0086	0.0122	0.0124	0.1559
605	3.2117	0.0455	0.0907	0.1264	0.0430	0.0430	0.0426	0.0261	0.0384	0.0533	0.0372	0.0502	0.0503	0.6466
606	0.1626	0.0024	0.0048	0.0066	0.0023	0.0024	0.0023	0.0015	0.0020	0.0030	0.0021	0.0028	0.0027	0.0348
607	14.1530	0.1994	0.4063	0.5635	0.1736	0.1215	0.1185	0.0616	0.0966	0.1464	0.0895	0.1712	0.2108	2.3589
608	27.4480	0.3628	0.7518	1.0426	0.2836	0.2071	0.2067	0.1033	0.1735	0.2593	0.1550	0.2873	0.3757	4.2085
609	10.9853	0.1434	0.3043	0.4231	0.1254	0.0910	0.0890	0.0483	0.0777	0.1136	0.0680	0.1195	0.1477	1.7512
610	14.7211	0.1967	0.4101	0.5627	0.1536	0.1268	0.1258	0.0686	0.1080	0.1587	0.0977	0.1698	0.2054	2.3838
611	26.6505	0.3539	0.7197	1.0070	0.3017	0.2545	0.2570	0.1457	0.2313	0.3193	0.2055	0.3192	0.3756	4.4904
612	11.2644	0.1503	0.3131	0.4309	0.1190	0.0991	0.0981	0.0547	0.0882	0.1264	0.0769	0.1314	0.1572	1.8453
613	0.2886	0.0042	0.0085	0.0118	0.0044	0.0031	0.0028	0.0014	0.0019	0.0029	0.0021	0.0042	0.0046	0.0520
614	1.3068	0.0192	0.0379	0.0526	0.0180	0.0172	0.0168	0.0100	0.0149	0.0212	0.0147	0.0210	0.0213	0.2650
615	0.1323	0.0020	0.0039	0.0054	0.0020	0.0018	0.0017	0.0010	0.0013	0.0020	0.0014	0.0022	0.0022	0.0268
616	6.6770	0.0845	0.1788	0.2478	0.0692	0.0582	0.0581	0.0318	0.0515	0.0724	0.0453	0.0730	0.0885	1.0591
617	6.6685	0.0883	0.1839	0.2550	0.0734	0.0555	0.0545	0.0284	0.0475	0.0688	0.0419	0.0739	0.0927	1.0637
618	23.0036	0.3134	0.6426	0.8849	0.2498	0.2062	0.2033	0.1115	0.1847	0.2667	0.1634	0.2752	0.3316	3.8332
619	3.0191	0.0419	0.0840	0.1170	0.0378	0.0341	0.0337	0.0195	0.0308	0.0429	0.0282	0.0414	0.0455	0.5568
620	8.1604	0.1063	0.2211	0.3058	0.0886	0.0772	0.0769	0.0427	0.0681	0.0960	0.0608	0.0960	0.1127	1.3521
621	0.3152	0.0046	0.0091	0.0127	0.0042	0.0038	0.0037	0.0020	0.0030	0.0045	0.0031	0.0048	0.0051	0.0606
622	1.1440	0.0170	0.0334	0.0460	0.0149	0.0141	0.0137	0.0078	0.0117	0.0172	0.0118	0.0177	0.0187	0.2239
623	1.8901	0.0272	0.0533	0.0739	0.0226	0.0225	0.0223	0.0128	0.0201	0.0288	0.0194	0.0272	0.0293	0.3594
624	12.2594	0.1802	0.3589	0.4905	0.1390	0.1190	0.1169	0.0638	0.0989	0.1493	0.0948	0.1651	0.1927	2.1690
625	15.6152	0.2125	0.4386	0.6007	0.1712	0.1473	0.1460	0.0823	0.1315	0.1901	0.1156	0.1914	0.2242	2.6514
626	0.7993	0.0117	0.0232	0.0320	0.0103	0.0102	0.0099	0.0060	0.0089	0.0125	0.0086	0.0125	0.0129	0.1587
627	0.1828	0.0027	0.0053	0.0073	0.0024	0.0023	0.0023	0.0014	0.0021	0.0029	0.0020	0.0029	0.0029	0.0364
628	7.4942	0.1042	0.2112	0.2906	0.0865	0.0776	0.0771	0.0442	0.0703	0.1008	0.0631	0.0980	0.1115	1.3352
629	0.1004	0.0015	0.0030	0.0041	0.0013	0.0011	0.0011	0.0005	0.0009	0.0013	0.0008	0.0014	0.0016	0.0185
630	3.7583	0.0523	0.1052	0.1449	0.0427	0.0399	0.0399	0.0230	0.0372	0.0527	0.0327	0.0494	0.0561	0.6760
631	0.0635	0.0009	0.0019	0.0025	0.0007	0.0007	0.0006	0.0003	0.0006	0.0009	0.0005	0.0009	0.0010	0.0115
632	13.3844	0.1842	0.3783	0.5151	0.1392	0.1279	0.1272	0.0711	0.1115	0.1646	0.1012	0.1658	0.1932	2.2794
633	0.5487	0.0078	0.0156	0.0217	0.0070	0.0066	0.0065	0.0038	0.0057	0.0079	0.0054	0.0081	0.0085	0.1046

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	0.0022	0.0043	0.0060	0.0020	0.0019	0.0018	0.0010	0.0015	0.0022	0.0015	0.0023	0.0024	0.0290
635	5.9121	0.0808	0.1650	0.2276	0.0670	0.0620	0.0620	0.0355	0.0553	0.0786	0.0500	0.0764	0.0864	1.0467
636	12.5299	0.1687	0.3511	0.4797	0.1275	0.1064	0.1063	0.0574	0.0916	0.1361	0.0810	0.1427	0.1756	2.0242
637	0.0577	0.0009	0.0013	0.0015	0.0006	0.0006	0.0006	0.0003	0.0005	0.0007	0.0004	0.0007	0.0008	0.0088
638	5.3140	0.0756	0.1508	0.2079	0.0662	0.0626	0.0622	0.0364	0.0554	0.0796	0.0524	0.0762	0.0823	1.0076
639	14.0470	0.2024	0.3086	0.3211	0.0960	0.0833	0.0936	0.0429	0.0875	0.1220	0.0643	0.1161	0.1628	1.7005
640	0.1244	0.0020	0.0030	0.0032	0.0013	0.0012	0.0013	0.0006	0.0011	0.0015	0.0009	0.0016	0.0017	0.0193
641	1.0287	0.0169	0.0243	0.0266	0.0109	0.0112	0.0122	0.0065	0.0111	0.0152	0.0099	0.0143	0.0147	0.1737
642	0.0691	0.0011	0.0016	0.0018	0.0008	0.0005	0.0005	0.0001	0.0003	0.0004	0.0003	0.0008	0.0010	0.0091
643	5.2502	0.0832	0.1200	0.1298	0.0475	0.0485	0.0543	0.0279	0.0516	0.0699	0.0419	0.0619	0.0704	0.8069
644	0.6674	0.0110	0.0160	0.0173	0.0067	0.0062	0.0068	0.0034	0.0059	0.0081	0.0051	0.0085	0.0095	0.1044
645	4.0982	0.0632	0.0912	0.0991	0.0345	0.0340	0.0388	0.0196	0.0371	0.0496	0.0285	0.0432	0.0525	0.5913
646	0.1058	0.0017	0.0025	0.0025	0.0008	0.0008	0.0009	0.0005	0.0010	0.0014	0.0007	0.0012	0.0014	0.0154
647	2.9632	0.0469	0.0681	0.0734	0.0268	0.0263	0.0294	0.0149	0.0275	0.0377	0.0224	0.0342	0.0396	0.4474
648	1.4051	0.0221	0.0323	0.0347	0.0123	0.0114	0.0126	0.0062	0.0122	0.0168	0.0096	0.0152	0.0184	0.2037
649	0.0674	0.0011	0.0016	0.0016	0.0005	0.0005	0.0006	0.0003	0.0007	0.0009	0.0005	0.0007	0.0009	0.0100
650	6.3381	0.0542	0.1297	0.1805	0.0399	0.0199	0.0184	0.0067	0.0137	0.0232	0.0102	0.0301	0.0499	0.5763
651	4.8242	0.0545	0.0844	0.0885	0.0250	0.0212	0.0240	0.0104	0.0226	0.0313	0.0160	0.0301	0.0436	0.4517
652	16.2879	0.2296	0.3513	0.3678	0.1115	0.0919	0.1044	0.0465	0.0982	0.1364	0.0688	0.1267	0.1814	1.9145
653	3.0394	0.0458	0.0670	0.0716	0.0231	0.0222	0.0258	0.0125	0.0252	0.0333	0.0177	0.0290	0.0377	0.4110
654	11.9029	0.1754	0.2646	0.2782	0.0876	0.0724	0.0823	0.0375	0.0779	0.1074	0.0553	0.1015	0.1417	1.4817
655	0.0840	0.0014	0.0020	0.0021	0.0007	0.0008	0.0008	0.0004	0.0009	0.0012	0.0007	0.0010	0.0011	0.0131
656	5.1345	0.0760	0.1138	0.1207	0.0395	0.0337	0.0383	0.0180	0.0365	0.0496	0.0261	0.0457	0.0622	0.6600
657	0.0735	0.0012	0.0018	0.0019	0.0008	0.0007	0.0008	0.0004	0.0007	0.0009	0.0006	0.0010	0.0010	0.0117
658	0.0458	0.0007	0.0011	0.0012	0.0005	0.0005	0.0006	0.0003	0.0005	0.0007	0.0005	0.0007	0.0006	0.0080
659	0.0658	0.0010	0.0015	0.0017	0.0007	0.0006	0.0007	0.0003	0.0006	0.0008	0.0005	0.0008	0.0009	0.0100
660	8.5454	0.1280	0.1926	0.2002	0.0627	0.0564	0.0644	0.0303	0.0615	0.0845	0.0442	0.0775	0.1034	1.1058
661	0.0307	0.0005	0.0007	0.0007	0.0003	0.0003	0.0004	0.0002	0.0003	0.0005	0.0003	0.0004	0.0004	0.0050
662	8.8341	0.1314	0.1974	0.2054	0.0635	0.0574	0.0662	0.0310	0.0627	0.0866	0.0447	0.0782	0.1056	1.1302
663	0.5166	0.0082	0.0120	0.0128	0.0045	0.0043	0.0050	0.0025	0.0047	0.0062	0.0035	0.0058	0.0069	0.0765
664	0.0522	0.0008	0.0012	0.0013	0.0005	0.0004	0.0004	0.0002	0.0003	0.0004	0.0003	0.0005	0.0006	0.0069
665	6.5997	0.0997	0.1480	0.1567	0.0499	0.0447	0.0508	0.0231	0.0460	0.0636	0.0344	0.0607	0.0819	0.8597
666	0.0636	0.0010	0.0015	0.0017	0.0007	0.0004	0.0004	0.0001	0.0002	0.0003	0.0002	0.0007	0.0009	0.0079
667	0.0706	0.0011	0.0017	0.0019	0.0008	0.0005	0.0005	0.0001	0.0002	0.0003	0.0002	0.0007	0.0010	0.0089
668	1.8870	0.0293	0.0430	0.0470	0.0170	0.0129	0.0140	0.0055	0.0108	0.0154	0.0089	0.0184	0.0250	0.2472

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	0.1152	0.1723	0.1781	0.0552	0.0514	0.0586	0.0277	0.0555	0.0761	0.0404	0.0711	0.0937	0.9953
670	5.7881	0.0842	0.1273	0.1352	0.0446	0.0361	0.0415	0.0194	0.0396	0.0532	0.0276	0.0499	0.0680	0.7265
671	0.3355	0.0054	0.0080	0.0086	0.0033	0.0032	0.0035	0.0017	0.0030	0.0043	0.0026	0.0042	0.0047	0.0525
672	0.9395	0.0152	0.0223	0.0237	0.0082	0.0071	0.0080	0.0039	0.0074	0.0103	0.0057	0.0100	0.0128	0.1346
673	7.9997	0.1180	0.1793	0.1877	0.0579	0.0451	0.0516	0.0232	0.0488	0.0664	0.0340	0.0656	0.0947	0.9724
674	0.0497	0.0008	0.0012	0.0013	0.0005	0.0002	0.0002	0.0000	0.0000	0.0001	0.0001	0.0003	0.0006	0.0053
675	0.1866	0.0028	0.0044	0.0049	0.0019	0.0006	0.0006	0.0001	0.0002	0.0005	0.0003	0.0012	0.0024	0.0200
676	5.5909	0.0837	0.1251	0.1343	0.0494	0.0423	0.0468	0.0238	0.0450	0.0614	0.0349	0.0571	0.0696	0.7734
677	0.0398	0.0006	0.0009	0.0010	0.0004	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0003	0.0005	0.0041
678	0.1595	0.0024	0.0036	0.0041	0.0020	0.0015	0.0016	0.0009	0.0014	0.0019	0.0013	0.0020	0.0021	0.0246
679	0.6001	0.0076	0.0119	0.0132	0.0064	0.0048	0.0051	0.0031	0.0051	0.0067	0.0042	0.0063	0.0067	0.0810
701	0.1254	0.0019	0.0028	0.0032	0.0017	0.0011	0.0011	0.0006	0.0010	0.0014	0.0009	0.0015	0.0017	0.0186
702	0.0799	0.0012	0.0018	0.0021	0.0011	0.0007	0.0007	0.0004	0.0006	0.0009	0.0006	0.0010	0.0011	0.0123
703	0.2377	0.0036	0.0053	0.0062	0.0032	0.0021	0.0021	0.0011	0.0019	0.0027	0.0017	0.0029	0.0034	0.0361
704	0.2098	0.0032	0.0047	0.0055	0.0028	0.0018	0.0018	0.0010	0.0016	0.0024	0.0015	0.0026	0.0030	0.0318
705	1.3627	0.0203	0.0294	0.0349	0.0182	0.0125	0.0125	0.0066	0.0115	0.0159	0.0103	0.0164	0.0187	0.2071
706	0.2602	0.0040	0.0058	0.0068	0.0039	0.0036	0.0039	0.0024	0.0038	0.0049	0.0033	0.0044	0.0037	0.0504
707	0.3074	0.0046	0.0067	0.0079	0.0045	0.0042	0.0045	0.0028	0.0045	0.0057	0.0038	0.0051	0.0043	0.0587
708	1.8884	0.0286	0.0419	0.0487	0.0264	0.0230	0.0241	0.0142	0.0230	0.0302	0.0199	0.0285	0.0263	0.3347
709	0.1895	0.0029	0.0043	0.0048	0.0024	0.0023	0.0025	0.0014	0.0024	0.0031	0.0020	0.0029	0.0026	0.0336
710	1.1343	0.0174	0.0257	0.0281	0.0111	0.0086	0.0092	0.0044	0.0083	0.0117	0.0069	0.0120	0.0147	0.1580
711	0.0620	0.0009	0.0014	0.0015	0.0006	0.0003	0.0003	0.0001	0.0003	0.0004	0.0002	0.0005	0.0007	0.0071
712	2.1799	0.0334	0.0501	0.0552	0.0203	0.0114	0.0121	0.0047	0.0107	0.0159	0.0083	0.0186	0.0277	0.2682
713	2.0642	0.0299	0.0458	0.0482	0.0148	0.0104	0.0109	0.0042	0.0093	0.0140	0.0078	0.0167	0.0241	0.2361
714	0.9506	0.0150	0.0220	0.0233	0.0076	0.0065	0.0071	0.0031	0.0067	0.0093	0.0053	0.0098	0.0126	0.1284
715	1.6470	0.0243	0.0371	0.0382	0.0108	0.0091	0.0095	0.0038	0.0081	0.0125	0.0072	0.0137	0.0192	0.1933
716	0.0265	0.0004	0.0006	0.0007	0.0003	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002	0.0003	0.0030
717	0.0813	0.0013	0.0020	0.0021	0.0008	0.0007	0.0008	0.0004	0.0007	0.0010	0.0007	0.0011	0.0011	0.0126
718	0.0364	0.0005	0.0008	0.0009	0.0003	0.0002	0.0002	0.0000	0.0001	0.0001	0.0001	0.0003	0.0004	0.0039
719	3.9405	0.0591	0.0884	0.0933	0.0288	0.0231	0.0236	0.0090	0.0202	0.0311	0.0185	0.0351	0.0479	0.4781
720	2.9784	0.0431	0.0662	0.0682	0.0191	0.0146	0.0147	0.0054	0.0126	0.0200	0.0114	0.0236	0.0344	0.3333
721	0.1524	0.0024	0.0036	0.0039	0.0015	0.0009	0.0009	0.0003	0.0006	0.0010	0.0006	0.0016	0.0021	0.0194
722	3.9243	0.0581	0.0880	0.0926	0.0289	0.0225	0.0231	0.0091	0.0193	0.0296	0.0177	0.0346	0.0473	0.4707
723	0.0279	0.0005	0.0007	0.0007	0.0003	0.0003	0.0003	0.0001	0.0002	0.0003	0.0002	0.0004	0.0004	0.0043
724	0.2535	0.0042	0.0060	0.0066	0.0028	0.0028	0.0029	0.0016	0.0026	0.0037	0.0025	0.0038	0.0036	0.0432

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	0.0010	0.0015	0.0017	0.0008	0.0008	0.0009	0.0005	0.0008	0.0011	0.0007	0.0010	0.0009	0.0116
726	1.3912	0.0222	0.0327	0.0352	0.0125	0.0098	0.0106	0.0047	0.0095	0.0137	0.0081	0.0147	0.0188	0.1926
727	3.2773	0.0440	0.0686	0.0723	0.0207	0.0148	0.0149	0.0055	0.0121	0.0193	0.0112	0.0236	0.0350	0.3420
728	0.3486	0.0057	0.0082	0.0088	0.0031	0.0030	0.0032	0.0014	0.0027	0.0040	0.0026	0.0043	0.0048	0.0517
729	1.9885	0.0262	0.0417	0.0439	0.0124	0.0079	0.0079	0.0027	0.0063	0.0103	0.0057	0.0131	0.0203	0.1984
730	13.8867	0.2121	0.3509	0.4104	0.1367	0.0928	0.0875	0.0445	0.0712	0.1246	0.0687	0.1214	0.1684	1.8891
731	0.1371	0.0022	0.0033	0.0035	0.0014	0.0011	0.0011	0.0005	0.0009	0.0013	0.0008	0.0016	0.0019	0.0196
732	0.0378	0.0006	0.0008	0.0009	0.0004	0.0001	0.0001	0.0000	0.0000	0.0001	0.0001	0.0003	0.0005	0.0039
733	0.9503	0.0139	0.0212	0.0231	0.0077	0.0059	0.0064	0.0028	0.0053	0.0077	0.0045	0.0083	0.0113	0.1182
734	1.1721	0.0166	0.0257	0.0270	0.0081	0.0065	0.0073	0.0033	0.0065	0.0093	0.0050	0.0089	0.0130	0.1371
735	0.1015	0.0016	0.0024	0.0026	0.0010	0.0007	0.0008	0.0004	0.0007	0.0010	0.0005	0.0010	0.0014	0.0141
736	9.8639	0.1327	0.2074	0.2173	0.0643	0.0502	0.0563	0.0246	0.0513	0.0723	0.0375	0.0720	0.1041	1.0900
737	0.1350	0.0022	0.0032	0.0035	0.0015	0.0015	0.0016	0.0009	0.0014	0.0020	0.0013	0.0019	0.0019	0.0230
738	2.7769	0.0453	0.0736	0.0855	0.0287	0.0214	0.0200	0.0108	0.0168	0.0285	0.0163	0.0276	0.0365	0.4112
739	4.5566	0.0752	0.1200	0.1389	0.0496	0.0382	0.0367	0.0202	0.0313	0.0520	0.0298	0.0488	0.0622	0.7029
740	0.0420	0.0006	0.0009	0.0010	0.0004	0.0004	0.0004	0.0002	0.0004	0.0005	0.0003	0.0005	0.0005	0.0061
741	1.3845	0.0235	0.0373	0.0446	0.0186	0.0119	0.0113	0.0061	0.0093	0.0153	0.0092	0.0155	0.0201	0.2227
742	3.0189	0.0493	0.0799	0.0946	0.0372	0.0235	0.0221	0.0117	0.0183	0.0310	0.0176	0.0312	0.0415	0.4581
743	0.3395	0.0058	0.0091	0.0108	0.0047	0.0038	0.0035	0.0020	0.0031	0.0048	0.0031	0.0044	0.0050	0.0600
744	0.0668	0.0011	0.0018	0.0021	0.0010	0.0008	0.0008	0.0005	0.0007	0.0011	0.0007	0.0010	0.0010	0.0126
745	0.0587	0.0010	0.0016	0.0019	0.0009	0.0006	0.0006	0.0003	0.0005	0.0007	0.0005	0.0008	0.0009	0.0103
746	2.7704	0.0446	0.0656	0.0858	0.0314	0.0213	0.0191	0.0104	0.0162	0.0272	0.0156	0.0264	0.0367	0.4002
747	1.2664	0.0189	0.0289	0.0380	0.0118	0.0075	0.0069	0.0036	0.0057	0.0100	0.0055	0.0096	0.0146	0.1611
748	4.2834	0.0738	0.1056	0.1358	0.0469	0.0340	0.0307	0.0166	0.0261	0.0437	0.0261	0.0441	0.0612	0.6446
749	7.1426	0.0760	0.1253	0.1646	0.0518	0.0457	0.0471	0.0639	0.0382	0.0947	0.0543	0.0721	0.0699	0.9036
750	4.4702	0.0390	0.0716	0.0962	0.0258	0.0172	0.0183	0.0259	0.0138	0.0377	0.0195	0.0298	0.0330	0.4278
751	0.1943	0.0020	0.0034	0.0043	0.0012	0.0013	0.0013	0.0018	0.0012	0.0027	0.0014	0.0019	0.0018	0.0242
752	3.9813	0.0364	0.0655	0.0879	0.0269	0.0187	0.0189	0.0260	0.0145	0.0386	0.0209	0.0304	0.0318	0.4164
753	1.8866	0.0170	0.0304	0.0405	0.0105	0.0084	0.0090	0.0127	0.0071	0.0186	0.0096	0.0137	0.0146	0.1921
754	2.1167	0.0170	0.0323	0.0432	0.0106	0.0070	0.0073	0.0107	0.0055	0.0158	0.0077	0.0121	0.0139	0.1832
755	0.1806	0.0020	0.0032	0.0042	0.0014	0.0015	0.0015	0.0019	0.0012	0.0029	0.0018	0.0022	0.0019	0.0257
756	0.9717	0.0066	0.0137	0.0192	0.0049	0.0020	0.0022	0.0033	0.0015	0.0048	0.0022	0.0040	0.0051	0.0696
757	1.6273	0.0106	0.0217	0.0295	0.0078	0.0049	0.0050	0.0072	0.0039	0.0103	0.0053	0.0079	0.0086	0.1226
758	0.1636	0.0017	0.0028	0.0038	0.0013	0.0007	0.0007	0.0010	0.0004	0.0014	0.0007	0.0013	0.0015	0.0174

Map Index	Area (km^2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
759	0.6767	0.0048	0.0098	0.0139	0.0046	0.0012	0.0012	0.0016	0.0004	0.0024	0.0010	0.0029	0.0040	0.0478
760	1.6425	0.0075	0.0183	0.0255	0.0051	0.0028	0.0029	0.0044	0.0023	0.0061	0.0030	0.0047	0.0056	0.0880
761	5.4201	0.0477	0.0854	0.1131	0.0321	0.0268	0.0280	0.0388	0.0227	0.0566	0.0308	0.0417	0.0415	0.5652
762	0.0473	0.0004	0.0008	0.0011	0.0004	0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0004	0.0048
763	0.9776	0.0077	0.0145	0.0196	0.0050	0.0036	0.0037	0.0052	0.0030	0.0078	0.0043	0.0060	0.0065	0.0869
764	0.0327	0.0003	0.0005	0.0007	0.0003	0.0001	0.0002	0.0003	0.0001	0.0003	0.0002	0.0003	0.0003	0.0036
801	0.1899	0.0020	0.0032	0.0045	0.0025	0.0018	0.0017	0.0022	0.0015	0.0031	0.0019	0.0024	0.0020	0.0288
802	0.1652	0.0017	0.0028	0.0039	0.0022	0.0015	0.0015	0.0019	0.0013	0.0027	0.0016	0.0021	0.0017	0.0250
803	0.0207	0.0002	0.0003	0.0004	0.0002	0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0002	0.0002	0.0030
804	0.1544	0.0016	0.0026	0.0036	0.0021	0.0017	0.0016	0.0022	0.0015	0.0030	0.0018	0.0022	0.0016	0.0256
805	0.4573	0.0043	0.0072	0.0101	0.0057	0.0051	0.0048	0.0061	0.0043	0.0085	0.0055	0.0062	0.0043	0.0722
806	0.0286	0.0003	0.0005	0.0006	0.0003	0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0002	0.0037
807	4.6905	0.0394	0.0719	0.0962	0.0263	0.0189	0.0197	0.0274	0.0151	0.0399	0.0211	0.0315	0.0340	0.4415
808	0.0318	0.0003	0.0005	0.0007	0.0004	0.0004	0.0004	0.0005	0.0003	0.0007	0.0004	0.0005	0.0003	0.0054
809	0.0208	0.0002	0.0003	0.0005	0.0003	0.0003	0.0003	0.0004	0.0003	0.0005	0.0003	0.0004	0.0002	0.0041
810	0.2197	0.0023	0.0038	0.0051	0.0020	0.0023	0.0022	0.0029	0.0020	0.0041	0.0026	0.0029	0.0022	0.0343
811	3.6146	0.0349	0.0601	0.0784	0.0206	0.0186	0.0196	0.0276	0.0162	0.0407	0.0219	0.0299	0.0308	0.3992
812	4.5811	0.0446	0.0767	0.1015	0.0313	0.0252	0.0265	0.0366	0.0215	0.0534	0.0287	0.0398	0.0398	0.5257
813	0.0763	0.0008	0.0013	0.0018	0.0009	0.0007	0.0007	0.0008	0.0005	0.0012	0.0007	0.0010	0.0008	0.0111
814	4.3673	0.0450	0.0746	0.0982	0.0303	0.0287	0.0296	0.0397	0.0241	0.0584	0.0333	0.0431	0.0407	0.5458
815	0.0444	0.0005	0.0008	0.0011	0.0005	0.0002	0.0002	0.0002	0.0001	0.0003	0.0002	0.0004	0.0005	0.0048
816	0.6943	0.0075	0.0120	0.0161	0.0059	0.0062	0.0062	0.0079	0.0052	0.0117	0.0073	0.0085	0.0070	0.1015
817	0.1234	0.0013	0.0021	0.0029	0.0011	0.0009	0.0009	0.0011	0.0006	0.0016	0.0009	0.0013	0.0012	0.0159
818	2.1621	0.0224	0.0374	0.0495	0.0162	0.0147	0.0149	0.0199	0.0119	0.0290	0.0169	0.0219	0.0205	0.2754
819	0.1383	0.0015	0.0024	0.0032	0.0013	0.0011	0.0011	0.0013	0.0008	0.0019	0.0011	0.0016	0.0014	0.0186
820	0.1090	0.0012	0.0019	0.0026	0.0011	0.0010	0.0010	0.0012	0.0007	0.0016	0.0010	0.0014	0.0011	0.0157
821	7.7087	0.0761	0.1288	0.1703	0.0521	0.0453	0.0475	0.0650	0.0384	0.0940	0.0520	0.0692	0.0676	0.9063
822	0.0462	0.0005	0.0008	0.0011	0.0005	0.0003	0.0003	0.0003	0.0001	0.0004	0.0002	0.0005	0.0005	0.0056
823	2.7867	0.0281	0.0473	0.0626	0.0206	0.0177	0.0182	0.0242	0.0140	0.0350	0.0195	0.0267	0.0256	0.3394
824	2.7875	0.0277	0.0464	0.0614	0.0202	0.0194	0.0200	0.0265	0.0161	0.0382	0.0217	0.0276	0.0250	0.3503
825	0.0888	0.0009	0.0016	0.0021	0.0008	0.0008	0.0008	0.0009	0.0006	0.0014	0.0008	0.0011	0.0009	0.0125
826	7.6250	0.0796	0.1323	0.1725	0.0520	0.0490	0.0508	0.0687	0.0416	0.1016	0.0575	0.0751	0.0724	0.9531
827	0.0354	0.0003	0.0006	0.0008	0.0003	0.0003	0.0003	0.0003	0.0002	0.0004	0.0002	0.0003	0.0003	0.0044
828	0.0299	0.0003	0.0005	0.0007	0.0003	0.0002	0.0002	0.0003	0.0001	0.0003	0.0002	0.0003	0.0002	0.0035

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
829	0.0974	0.0010	0.0017	0.0023	0.0009	0.0008	0.0008	0.0010	0.0006	0.0014	0.0008	0.0011	0.0010	0.0133
830	2.6253	0.0275	0.0441	0.0597	0.0205	0.0196	0.0201	0.0262	0.0166	0.0384	0.0232	0.0277	0.0247	0.3485
831	0.2743	0.0030	0.0047	0.0064	0.0023	0.0026	0.0026	0.0032	0.0021	0.0048	0.0031	0.0035	0.0028	0.0411
832	0.1364	0.0014	0.0023	0.0031	0.0011	0.0012	0.0012	0.0015	0.0010	0.0022	0.0014	0.0016	0.0013	0.0194
833	4.9042	0.0487	0.0820	0.1080	0.0322	0.0297	0.0311	0.0424	0.0255	0.0617	0.0341	0.0447	0.0433	0.5835
834	0.0303	0.0003	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0001	0.0003	0.0001	0.0002	0.0002	0.0028
835	0.0645	0.0007	0.0010	0.0012	0.0006	0.0005	0.0005	0.0005	0.0003	0.0007	0.0003	0.0006	0.0006	0.0076
836	2.1880	0.0238	0.0333	0.0371	0.0142	0.0151	0.0151	0.0189	0.0116	0.0274	0.0136	0.0183	0.0194	0.2478
837	0.0337	0.0004	0.0005	0.0006	0.0003	0.0002	0.0002	0.0002	0.0001	0.0003	0.0001	0.0003	0.0003	0.0035
838	0.0239	0.0003	0.0004	0.0004	0.0002	0.0001	0.0001	0.0001	0.0000	0.0002	0.0001	0.0002	0.0002	0.0023
839	3.3264	0.0353	0.0502	0.0548	0.0181	0.0197	0.0201	0.0260	0.0153	0.0380	0.0175	0.0247	0.0279	0.3476
840	1.0502	0.0116	0.0160	0.0181	0.0075	0.0080	0.0079	0.0097	0.0062	0.0140	0.0074	0.0095	0.0095	0.1253
841	0.1102	0.0017	0.0020	0.0009	0.0009	0.0009	0.0011	0.0007	0.0016	0.0008	0.0011	0.0011	0.0013	0.0140
842	0.1308	0.0015	0.0021	0.0023	0.0010	0.0012	0.0011	0.0014	0.0009	0.0020	0.0011	0.0014	0.0013	0.0173
843	6.8981	0.0758	0.1075	0.1162	0.0393	0.0433	0.0437	0.0571	0.0335	0.0822	0.0389	0.0548	0.0610	0.7533
844	0.0754	0.0009	0.0012	0.0013	0.0007	0.0008	0.0008	0.0009	0.0006	0.0013	0.0008	0.0009	0.0008	0.0109
845	0.0213	0.0002	0.0003	0.0004	0.0002	0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0002	0.0002	0.0030
846	0.0254	0.0002	0.0004	0.0004	0.0003	0.0003	0.0003	0.0004	0.0003	0.0005	0.0002	0.0003	0.0002	0.0036
847	0.2893	0.0033	0.0045	0.0050	0.0020	0.0023	0.0022	0.0029	0.0020	0.0042	0.0021	0.0027	0.0027	0.0357
848	2.7345	0.0290	0.0407	0.0450	0.0168	0.0193	0.0193	0.0247	0.0155	0.0353	0.0176	0.0230	0.0235	0.3097
849	1.6469	0.0172	0.0241	0.0266	0.0102	0.0117	0.0116	0.0150	0.0097	0.0215	0.0106	0.0138	0.0141	0.1860
850	0.2326	0.0028	0.0038	0.0042	0.0019	0.0022	0.0021	0.0027	0.0018	0.0038	0.0021	0.0027	0.0024	0.0325
851	0.2326	0.0028	0.0038	0.0042	0.0019	0.0022	0.0021	0.0027	0.0018	0.0038	0.0021	0.0027	0.0024	0.0325
852	5.4305	0.0587	0.0831	0.0907	0.0323	0.0344	0.0346	0.0448	0.0265	0.0649	0.0306	0.0430	0.0472	0.5908
853	5.3264	0.0579	0.0810	0.0891	0.0325	0.0373	0.0374	0.0479	0.0294	0.0682	0.0338	0.0450	0.0469	0.6063
854	0.0267	0.0003	0.0004	0.0004	0.0002	0.0003	0.0002	0.0003	0.0002	0.0004	0.0002	0.0003	0.0002	0.0035
855	0.1517	0.0017	0.0023	0.0026	0.0013	0.0015	0.0015	0.0018	0.0012	0.0025	0.0014	0.0017	0.0015	0.0212
856	0.0258	0.0003	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0001	0.0003	0.0001	0.0002	0.0002	0.0029
857	0.9950	0.0113	0.0155	0.0172	0.0070	0.0082	0.0081	0.0102	0.0066	0.0146	0.0076	0.0098	0.0095	0.1255
858	0.0328	0.0003	0.0005	0.0005	0.0002	0.0003	0.0002	0.0003	0.0002	0.0004	0.0002	0.0002	0.0003	0.0036
859	3.4439	0.0361	0.0506	0.0558	0.0199	0.0234	0.0236	0.0303	0.0188	0.0433	0.0210	0.0275	0.0288	0.3791
860	0.0367	0.0004	0.0005	0.0006	0.0003	0.0003	0.0003	0.0004	0.0002	0.0005	0.0003	0.0003	0.0003	0.0045
861	3.0772	0.0342	0.0469	0.0522	0.0205	0.0235	0.0235	0.0300	0.0193	0.0425	0.0215	0.0279	0.0283	0.3702

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
862	0.0597	0.0006	0.0009	0.0010	0.0004	0.0005	0.0005	0.0006	0.0004	0.0009	0.0004	0.0006	0.0005	0.0073
863	0.2171	0.0025	0.0034	0.0038	0.0017	0.0020	0.0019	0.0024	0.0015	0.0034	0.0019	0.0023	0.0021	0.0289
864	0.1687	0.0019	0.0026	0.0030	0.0013	0.0015	0.0015	0.0018	0.0012	0.0026	0.0015	0.0018	0.0016	0.0225
865	0.0255	0.0003	0.0004	0.0004	0.0002	0.0002	0.0002	0.0003	0.0002	0.0004	0.0002	0.0002	0.0002	0.0033
866	0.0995	0.0011	0.0016	0.0017	0.0008	0.0009	0.0009	0.0011	0.0007	0.0015	0.0008	0.0010	0.0010	0.0131
867	7.0547	0.0775	0.1081	0.1188	0.0435	0.0481	0.0484	0.0625	0.0380	0.0891	0.0431	0.0587	0.0631	0.7990
868	0.0592	0.0006	0.0009	0.0010	0.0004	0.0005	0.0005	0.0006	0.0004	0.0009	0.0004	0.0005	0.0005	0.0072
869	0.2172	0.0025	0.0034	0.0038	0.0017	0.0020	0.0019	0.0024	0.0015	0.0034	0.0019	0.0023	0.0021	0.0289
870	0.1687	0.0019	0.0026	0.0030	0.0013	0.0015	0.0015	0.0018	0.0012	0.0026	0.0015	0.0018	0.0016	0.0224
871	0.0997	0.0011	0.0016	0.0017	0.0008	0.0009	0.0009	0.0011	0.0007	0.0015	0.0008	0.0010	0.0010	0.0131
872	7.1256	0.0784	0.1094	0.1201	0.0440	0.0487	0.0490	0.0632	0.0384	0.0901	0.0437	0.0595	0.0639	0.8084
873	25.8389	0.2728	0.3881	0.4246	0.1442	0.1511	0.1544	0.1993	0.1151	0.2876	0.1335	0.1886	0.2149	2.6741
874	0.1140	0.0012	0.0017	0.0019	0.0008	0.0010	0.0009	0.0012	0.0007	0.0017	0.0008	0.0011	0.0010	0.0142
875	0.0854	0.0009	0.0013	0.0014	0.0006	0.0007	0.0007	0.0009	0.0006	0.0013	0.0007	0.0008	0.0008	0.0107
876	0.4446	0.0050	0.0069	0.0076	0.0026	0.0030	0.0030	0.0038	0.0023	0.0055	0.0027	0.0037	0.0040	0.0501
877	5.2953	0.0569	0.0809	0.0879	0.0273	0.0287	0.0296	0.0385	0.0220	0.0565	0.0258	0.0373	0.0449	0.5362
878	4.0376	0.0407	0.0588	0.0640	0.0179	0.0201	0.0212	0.0274	0.0157	0.0405	0.0178	0.0255	0.0309	0.3803
879	0.0701	0.0008	0.0011	0.0013	0.0006	0.0007	0.0006	0.0008	0.0005	0.0011	0.0006	0.0008	0.0007	0.0097
880	6.7158	0.0706	0.1002	0.1089	0.0340	0.0375	0.0390	0.0507	0.0293	0.0741	0.0332	0.0469	0.0550	0.6797
881	0.0457	0.0005	0.0007	0.0008	0.0004	0.0005	0.0005	0.0006	0.0004	0.0008	0.0005	0.0005	0.0005	0.0067
882	0.2844	0.0034	0.0046	0.0052	0.0029	0.0033	0.0031	0.0038	0.0026	0.0053	0.0031	0.0038	0.0031	0.0442
883	0.2902	0.0036	0.0050	0.0055	0.0032	0.0035	0.0033	0.0041	0.0027	0.0056	0.0035	0.0044	0.0034	0.0478
884	9.0634	0.1079	0.1518	0.1651	0.0634	0.0617	0.0606	0.0775	0.0451	0.1129	0.0592	0.0863	0.0938	1.0854
885	0.1466	0.0018	0.0025	0.0028	0.0015	0.0016	0.0015	0.0019	0.0013	0.0027	0.0016	0.0020	0.0017	0.0229
886	8.7433	0.1047	0.1467	0.1590	0.0614	0.0621	0.0606	0.0778	0.0465	0.1138	0.0600	0.0859	0.0914	1.0699
887	1.2169	0.0148	0.0206	0.0228	0.0100	0.0096	0.0093	0.0117	0.0072	0.0168	0.0091	0.0130	0.0133	0.1583
888	11.4533	0.1369	0.1913	0.2086	0.0859	0.0859	0.0836	0.1080	0.0655	0.1560	0.0837	0.1174	0.1210	1.4438
889	0.8397	0.0103	0.0142	0.0154	0.0063	0.0068	0.0066	0.0086	0.0051	0.0117	0.0066	0.0091	0.0091	0.1098
890	18.5665	0.2242	0.3119	0.3379	0.1312	0.1382	0.1349	0.1735	0.1032	0.2504	0.1345	0.1887	0.1965	2.3252
891	0.0890	0.0011	0.0015	0.0017	0.0014	0.0015	0.0013	0.0017	0.0012	0.0022	0.0014	0.0017	0.0011	0.0177
892	0.3537	0.0044	0.0060	0.0067	0.0034	0.0038	0.0036	0.0046	0.0030	0.0063	0.0037	0.0048	0.0041	0.0542
893	0.0680	0.0008	0.0011	0.0013	0.0011	0.0011	0.0010	0.0013	0.0009	0.0017	0.0011	0.0013	0.0008	0.0136
894	0.0772	0.0009	0.0013	0.0015	0.0011	0.0012	0.0010	0.0013	0.0009	0.0017	0.0011	0.0014	0.0010	0.0143

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
895	7.0878	0.0862	0.1198	0.1353	0.0625	0.0539	0.0519	0.0653	0.0391	0.0928	0.0507	0.0752	0.0780	0.9108
896	26.4622	0.3058	0.4623	0.4033	0.1995	0.1936	0.2251	0.2353	0.2029	0.3095	0.2172	0.2815	0.2944	3.3305
897	31.2861	0.3528	0.5371	0.4710	0.2102	0.1911	0.2259	0.2298	0.1973	0.3113	0.2161	0.2933	0.3271	3.5632
898	16.0349	0.1056	0.1807	0.1616	0.0847	0.0611	0.0688	0.0679	0.0578	0.0892	0.0624	0.0926	0.0979	1.1302
899	6.2358	0.0536	0.0866	0.0751	0.0359	0.0333	0.0383	0.0401	0.0344	0.0528	0.0371	0.0487	0.0501	0.5859

Table AG.7: Total monthly volume of water (mm over watershed) entering the ground and moving beyond the root zone.

Map Index	Area (km^2)	Volume of water entering the ground and moving beyond the root zone (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	3.43	5.04	44.45	58.48	21.32	6.71	1.21	2.43	13.43	44.52	52.20	14.13	267.34
602	0.2196	2.06	1.92	41.62	52.57	17.10	5.32	0.66	0.87	9.59	42.45	48.66	13.27	236.09
603	0.3655	1.55	1.68	34.05	61.63	23.58	9.66	3.08	4.06	16.95	48.85	50.87	12.20	268.16
604	0.7529	1.46	1.75	34.02	63.40	26.04	10.87	3.83	5.60	20.95	52.21	52.80	12.30	285.23
605	3.2117	1.98	2.29	40.59	56.77	19.47	6.18	1.10	1.65	11.70	44.22	50.43	12.70	249.08
606	0.1626	2.04	1.90	42.56	52.11	17.72	5.49	0.58	0.79	10.07	42.56	49.14	13.30	238.25
607	14.1530	1.17	1.88	33.28	74.42	31.81	14.90	6.17	7.65	23.71	52.53	58.92	12.35	318.80
608	27.4480	2.31	2.93	43.38	71.10	33.61	15.82	5.78	7.91	27.26	57.38	62.14	13.79	343.41
609	10.9853	2.31	2.87	44.06	72.29	38.12	18.94	8.18	11.47	32.08	60.20	61.36	12.41	364.30
610	14.7211	2.58	3.33	47.85	67.45	33.31	16.16	6.28	8.58	27.75	58.08	62.18	13.94	347.48
611	26.6505	2.34	3.18	40.88	67.01	29.20	13.11	5.03	6.76	22.54	53.81	57.97	13.61	315.45
612	11.2644	2.34	3.30	46.69	67.49	33.50	16.27	7.13	9.91	29.12	59.03	61.49	13.78	350.06
613	0.2886	2.10	1.23	34.77	61.87	25.14	7.41	0.45	1.00	8.56	33.36	47.27	10.47	233.62
614	1.3068	1.84	1.95	40.46	56.04	21.26	7.54	2.10	3.12	14.52	45.52	51.43	13.27	259.07
615	0.1323	1.58	1.63	35.34	54.85	18.06	4.36	0.01	0.01	6.07	33.66	45.29	11.71	212.57
616	6.6770	2.73	3.31	48.61	64.67	31.59	14.66	5.90	8.09	25.58	56.20	60.29	14.59	336.21
617	6.6685	1.98	3.05	45.04	65.84	32.17	13.17	4.24	7.56	26.28	54.86	60.18	13.18	327.57
618	23.0036	2.47	3.41	48.60	65.39	32.82	15.02	6.00	10.07	30.54	58.85	61.72	14.52	349.42
619	3.0191	1.89	2.34	39.42	60.38	24.76	9.01	2.59	4.40	18.89	50.13	54.44	12.97	281.23
620	8.1604	2.62	3.23	45.63	63.83	29.55	13.16	4.81	7.17	23.80	53.25	58.12	13.64	318.82
621	0.3152	1.78	2.31	40.70	54.71	22.08	6.84	0.45	0.95	12.53	42.81	51.71	13.00	249.87
622	1.1440	1.95	2.01	42.91	54.61	21.75	6.74	0.84	2.07	15.54	46.16	52.93	13.75	261.27
623	1.8901	2.15	2.75	47.42	51.87	21.46	6.71	1.08	2.82	17.77	49.69	54.80	14.76	273.26
624	12.2594	1.98	2.06	41.28	64.76	28.75	12.24	3.80	5.20	22.24	53.73	59.53	13.58	309.13
625	15.6152	2.16	2.52	44.81	64.46	31.31	14.61	5.67	8.34	27.31	56.75	59.64	13.29	330.88
626	0.7993	1.99	2.43	39.89	58.77	21.51	6.81	1.28	2.23	13.29	45.31	52.04	12.73	258.28
627	0.1828	2.08	2.65	38.30	60.79	21.52	7.01	1.43	1.95	11.94	45.02	52.28	12.28	257.26
628	7.4942	1.98	2.30	43.35	62.50	28.88	12.72	4.31	6.50	24.99	55.10	58.11	13.19	313.94
629	0.1004	1.46	1.82	36.81	58.51	23.39	6.61	1.15	3.11	15.88	42.08	51.08	12.71	254.61
630	3.7583	1.86	2.09	43.48	60.24	27.58	11.92	3.83	6.03	25.30	55.39	57.83	13.02	308.56
631	0.0635	1.75	2.30	42.98	57.24	25.15	7.27	2.15	6.24	23.96	51.00	56.03	14.54	290.61
632	13.3844	2.40	2.64	47.84	61.12	29.71	13.72	4.58	6.80	26.28	56.37	60.57	14.28	326.30
633	0.5487	1.93	2.45	37.35	60.72	21.94	7.00	1.29	1.86	11.89	43.69	51.31	12.05	253.47

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	1.71	1.77	39.34	56.00	20.96	6.61	0.53	0.89	12.33	42.11	50.38	12.92	245.56
635	5.9121	1.98	2.20	42.26	62.15	27.01	11.88	3.76	5.07	21.55	52.44	56.91	12.67	299.87
636	12.5299	2.53	2.80	46.63	66.17	32.95	16.01	5.64	7.79	28.29	57.87	61.70	13.44	341.82
637	0.0577	3.37	4.57	43.99	34.96	15.14	3.01	0.00	0.21	6.24	28.15	45.66	14.36	199.64
638	5.3140	1.89	2.32	43.41	56.37	24.70	10.14	2.88	4.27	20.21	51.34	55.20	12.96	285.69
639	14.0470	5.91	5.77	59.91	42.86	26.32	12.01	3.44	6.80	24.71	48.65	62.98	17.37	316.74
640	0.1244	4.04	2.34	45.43	38.09	16.74	4.28	0.55	0.85	7.71	30.35	48.00	12.74	211.11
641	1.0287	3.91	5.61	50.56	29.87	14.60	3.20	0.15	0.88	8.86	33.61	49.08	16.08	216.40
642	0.0691	2.25	1.96	30.30	47.86	18.30	3.37	0.00	0.04	3.69	19.41	41.16	10.66	178.99
643	5.2502	4.03	4.43	54.57	32.68	18.97	6.79	1.56	3.16	16.10	41.34	54.46	16.48	254.57
644	0.6674	3.83	3.72	46.53	36.69	17.64	4.68	0.44	0.88	9.82	33.51	49.99	14.37	222.12
645	4.0982	3.08	2.95	54.22	36.46	21.21	8.73	2.05	3.43	18.20	43.28	56.22	16.31	266.13
646	0.1058	4.14	6.02	55.27	33.21	20.86	5.57	1.62	7.32	23.60	48.95	59.62	18.78	284.97
647	2.9632	3.79	4.41	52.63	35.05	19.39	6.71	1.20	2.41	15.37	40.96	54.78	15.66	252.37
648	1.4051	3.53	4.99	51.15	37.17	20.43	6.11	0.98	3.76	17.83	43.22	56.97	16.18	262.32
649	0.0674	4.16	6.16	55.53	32.62	20.54	5.53	1.56	6.98	23.16	48.73	59.35	18.86	283.18
650	6.3381	13.84	25.32	80.24	87.92	49.99	25.11	9.36	15.03	39.60	62.38	73.01	23.23	505.04
651	4.8242	14.60	18.13	67.88	52.22	29.63	13.68	3.82	6.99	24.14	46.15	65.43	25.19	367.86
652	16.2879	4.93	5.25	56.34	45.32	27.38	12.75	3.95	7.50	25.56	49.25	63.07	16.78	318.06
653	3.0394	3.28	2.15	55.38	39.66	23.88	11.16	3.44	5.21	21.74	46.93	58.93	15.07	286.81
654	11.9029	4.19	4.26	54.19	45.27	26.98	12.41	3.96	7.25	24.90	48.61	61.87	15.77	309.69
655	0.0840	4.15	6.07	55.04	31.61	19.33	4.99	1.35	6.24	21.02	46.39	57.57	18.47	272.23
656	5.1345	3.98	3.58	53.38	43.76	25.98	11.77	3.86	7.11	24.12	47.70	60.76	14.92	300.92
657	0.0735	3.51	4.51	45.30	34.67	16.22	3.54	0.00	0.23	7.61	30.73	47.84	14.77	208.93
658	0.0458	4.16	5.82	52.65	27.05	13.16	2.80	0.00	0.33	7.94	33.75	48.35	16.53	212.54
659	0.0658	3.37	4.58	44.14	35.72	16.65	3.63	0.00	0.21	7.49	30.27	47.86	14.62	208.53
660	8.5454	4.00	3.44	55.74	42.16	25.43	11.64	3.86	7.13	24.33	48.53	61.63	16.51	304.40
661	0.0307	3.92	5.35	50.09	29.43	14.11	3.03	0.00	0.29	7.80	32.53	47.94	15.87	210.36
662	8.8341	4.07	3.36	57.21	42.29	26.22	12.89	4.25	7.04	25.21	49.59	61.93	16.17	310.23
663	0.5166	3.46	2.42	50.47	41.25	22.06	10.21	3.56	4.17	16.70	41.92	55.45	13.55	265.23
664	0.0522	3.00	3.42	38.00	42.57	19.15	4.26	0.00	0.16	7.17	27.54	47.17	13.03	205.49
665	6.5997	4.40	3.12	55.47	41.41	24.58	11.23	3.19	5.21	21.58	45.56	59.57	15.17	290.50
666	0.0636	1.97	1.42	27.21	51.42	20.31	3.98	0.00	0.00	4.15	19.13	41.93	10.03	181.54
667	0.0706	1.97	1.42	27.21	51.24	19.93	3.82	0.00	0.00	3.83	18.63	41.41	9.98	179.45
668	1.8870	56.03	60.57	51.31	50.38	56.91	61.70	45.66	55.20	62.98	48.00	49.08	41.16	16.36

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	3.82	3.36	56.34	40.98	24.48	11.09	3.57	6.32	22.86	47.46	60.80	16.48	297.56
670	5.7881	4.36	4.04	51.79	49.07	27.68	13.84	5.32	8.23	24.87	48.18	60.83	14.79	313.01
671	0.3355	3.71	4.69	48.23	34.46	17.70	4.84	0.42	1.03	11.13	35.38	50.85	15.45	227.89
672	0.9395	3.61	1.83	52.84	42.86	24.98	10.55	2.88	5.82	22.50	45.75	59.06	13.03	285.71
673	7.9997	4.16	5.09	52.30	50.84	28.92	14.74	5.91	9.22	25.98	49.61	63.09	16.32	326.19
674	0.0497	0.30	0.19	25.23	73.35	30.47	9.67	0.00	1.12	14.89	35.90	60.97	6.07	258.16
675	0.1866	0.37	0.22	26.31	72.45	30.39	9.76	0.09	1.26	15.25	36.47	61.17	6.45	260.18
676	5.5909	4.30	4.83	50.38	46.82	24.15	9.98	3.13	5.77	20.42	44.63	58.08	15.19	287.67
677	0.0398	0.29	0.19	24.98	72.12	29.47	9.29	0.04	0.98	14.12	34.60	59.05	5.93	251.06
678	0.1595	1.47	2.11	30.54	73.64	23.95	7.96	0.99	1.55	11.90	33.43	49.85	6.27	243.67
679	0.6001	8.75	14.48	48.99	72.34	30.29	13.42	3.68	5.20	21.61	43.87	55.86	12.54	331.04
701	0.1254	0.50	5.90	33.85	57.57	20.33	4.01	0.20	1.13	11.14	30.85	49.86	6.04	221.38
702	0.0799	0.51	5.90	33.83	57.38	20.23	3.98	0.19	1.12	11.06	30.69	49.66	6.02	220.56
703	0.2377	0.49	5.90	33.83	57.57	20.34	4.01	0.20	1.13	11.15	30.86	49.86	6.04	221.38
704	0.2098	0.49	5.90	33.82	57.55	20.33	4.01	0.19	1.13	11.14	30.84	49.83	6.04	221.27
705	1.3627	0.44	5.19	32.85	59.57	19.12	3.69	0.17	0.99	10.12	29.36	48.33	5.85	215.68
706	0.2602	0.15	0.46	26.55	72.71	10.87	1.49	0.00	0.04	3.15	19.07	37.80	4.71	176.99
707	0.3074	0.13	0.37	26.35	72.95	10.81	1.46	0.00	0.03	3.03	18.90	37.61	4.67	176.30
708	1.8884	0.98	1.25	29.00	66.24	13.86	2.03	0.05	0.35	4.99	20.59	39.36	6.14	184.83
709	0.1895	1.93	2.05	37.75	53.14	9.90	1.11	0.02	0.16	4.46	22.07	41.74	9.29	183.63
710	1.1343	2.78	1.44	44.23	47.06	16.77	4.14	0.89	2.02	13.34	35.17	53.74	10.73	232.31
711	0.0620	1.91	1.27	36.09	62.38	28.05	12.34	4.94	7.33	23.88	49.99	62.81	12.16	303.16
712	2.1799	2.07	1.56	41.93	54.97	23.16	8.79	3.08	5.30	20.86	44.99	60.90	11.60	279.20
713	2.0642	5.16	4.69	52.58	44.74	17.80	4.60	0.87	2.80	16.42	39.35	60.63	15.09	264.75
714	0.9506	3.56	1.58	50.39	36.78	14.04	2.58	0.40	1.91	13.37	37.29	57.39	13.09	232.39
715	1.6470	4.40	4.65	57.93	36.59	15.82	4.49	0.90	3.05	16.36	39.52	62.11	17.21	263.02
716	0.0265	1.95	1.42	27.16	50.76	17.31	2.24	0.00	0.00	6.01	22.92	46.87	10.57	187.19
717	0.0813	4.20	5.24	51.97	24.16	7.91	0.24	0.00	0.00	4.89	28.47	50.92	15.98	193.97
718	0.0364	2.26	2.10	30.58	47.33	16.28	2.26	0.14	0.20	6.37	24.02	46.92	11.39	189.84
719	3.9405	3.91	3.36	52.79	35.82	13.72	2.57	0.41	1.32	12.09	35.45	58.14	16.70	236.27
720	2.9784	5.24	5.10	55.77	39.58	15.96	3.62	0.53	2.14	15.67	38.74	61.59	17.25	261.19
721	0.1524	3.05	1.51	35.05	43.87	14.38	1.82	0.13	0.21	5.90	24.26	47.13	11.35	188.67
722	3.9243	4.74	4.67	52.74	40.33	15.61	3.51	0.61	2.13	14.47	37.65	59.55	15.28	251.30
723	0.0279	4.19	5.25	51.80	24.07	7.87	0.24	0.00	0.00	4.86	28.35	50.74	15.93	193.29
724	0.2535	3.97	4.49	47.79	31.19	7.72	0.22	0.00	0.00	3.67	23.15	44.57	14.14	180.90

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	3.77	4.01	44.19	37.28	7.49	0.18	0.00	0.00	2.50	18.17	38.77	12.49	168.85
726	1.3912	2.97	2.12	48.96	40.91	16.16	4.61	1.33	2.80	15.08	38.92	57.17	12.84	243.88
727	3.2773	7.54	7.91	57.71	46.85	18.24	4.74	0.44	2.08	15.04	37.36	61.76	18.41	278.07
728	0.3486	4.17	5.29	51.57	25.34	8.61	0.45	0.01	0.10	5.50	28.80	51.49	16.03	197.36
729	1.9885	6.19	6.79	56.09	54.81	20.63	6.65	1.59	3.68	18.99	41.25	64.08	16.98	297.73
730	13.8867	4.70	5.48	56.63	65.38	34.34	11.27	4.56	7.65	24.79	52.08	69.37	26.51	362.76
731	0.1371	3.78	1.51	41.44	43.49	18.93	4.71	0.59	0.86	8.41	31.63	50.40	11.78	217.52
732	0.0378	2.31	1.46	28.22	54.07	19.98	2.97	0.00	0.14	6.41	29.12	50.18	10.25	205.10
733	0.9503	3.60	3.94	49.52	51.55	23.77	8.49	1.14	2.41	16.47	40.46	58.33	15.42	275.09
734	1.1721	4.96	5.87	57.31	49.46	28.35	14.05	4.64	7.95	25.62	49.23	63.85	17.16	328.45
735	0.1015	2.73	2.77	40.66	51.01	29.14	14.98	6.61	8.10	22.99	48.03	58.48	13.92	299.43
736	9.8639	6.92	5.57	58.77	50.69	27.47	11.57	2.86	5.71	22.98	47.08	63.77	19.48	322.87
737	0.1350	3.82	5.14	48.99	30.80	14.71	3.18	0.00	0.28	7.76	32.23	48.11	15.63	210.64
738	2.7769	2.67	4.74	56.43	61.93	32.25	10.49	4.42	7.76	24.51	51.40	68.37	24.53	349.49
739	4.5566	3.41	4.09	55.34	58.26	31.00	10.07	4.25	6.29	22.63	50.85	66.67	23.81	336.68
740	0.0420	4.58	1.70	48.29	37.90	17.64	5.10	0.84	1.20	9.25	33.56	50.80	12.64	223.49
741	1.3845	1.84	2.02	39.65	67.24	32.44	9.97	3.27	5.11	19.11	46.59	62.50	20.67	310.41
742	3.0189	2.88	3.79	46.34	69.37	36.07	13.66	6.25	9.12	26.47	51.99	65.70	22.25	353.90
743	0.3395	2.59	4.15	48.11	48.80	24.91	6.06	1.42	2.69	15.82	43.27	59.02	20.43	277.27
744	0.0668	3.04	3.39	47.79	44.64	18.53	2.51	0.00	0.34	8.29	35.56	52.67	20.09	236.85
745	0.0587	2.29	2.90	39.52	52.92	21.86	3.15	0.00	0.37	7.73	32.58	50.12	18.80	232.24
746	2.7704	2.1225	3.5332	48.7116	64.9578	34.7889	12.2707	5.3864	8.0735	25.6733	52.6530	67.6608	22.2207	348.0521
747	1.2664	1.7393	4.8724	54.0236	75.4322	36.7328	12.7212	4.1499	7.6625	26.8222	53.6025	71.6771	25.3966	374.8320
748	4.2834	2.6643	3.5610	50.6203	60.9780	30.4769	8.1933	2.7955	5.0898	20.0771	48.9467	65.8644	24.3992	323.6662
749	7.1426	2.0673	2.1555	32.3890	54.6796	20.7832	9.2673	3.4357	2.6185	23.2389	49.0035	56.9591	12.7562	269.3535
750	4.4702	3.0594	4.0215	39.6449	68.6280	27.7341	14.1160	7.2553	4.2834	33.0964	52.1764	62.3393	11.6620	328.0164
751	0.1943	3.0640	1.8423	41.2121	46.2378	21.0261	10.1055	4.8248	3.9555	29.1894	52.6673	58.0241	12.7073	284.8559
752	3.9813	2.4160	2.7926	35.9831	65.0138	26.0455	11.8368	5.6614	3.6512	30.4646	52.0724	61.3622	11.6979	308.9972
753	1.8866	1.9622	2.6773	38.8444	62.8580	25.1299	12.4386	5.8336	3.8040	31.6038	53.7271	61.6642	12.2316	312.7747
754	2.1167	4.3144	3.9259	47.5306	64.9998	29.2225	15.4295	9.1470	5.6440	37.9976	57.1734	65.4079	12.7171	353.5094
755	0.1806	1.7601	2.7384	40.8189	40.4650	16.4134	6.6641	1.3061	1.4036	20.5517	47.9596	54.6485	13.0526	247.7819
756	0.9717	3.8235	5.0422	39.0499	88.3146	29.8048	13.8531	6.2708	3.4777	33.0979	51.4392	65.7837	10.8876	350.8447
757	1.6273	7.0701	6.7352	53.9375	75.0490	28.6448	13.9329	7.3535	3.8878	33.9307	53.2752	65.4638	12.2197	361.4999
758	0.1636	0.4733	1.7875	19.9527	62.6544	21.9553	8.1287	2.2438	1.5952	19.1706	38.3976	53.0319	8.7212	238.1121
759	0.6767	3.8004	5.2668	29.9186	90.6471	30.4060	12.9825	5.0574	2.2498	28.4893	45.2765	62.5789	8.5045	325.1776

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
760	1.6425	10.2548	9.8788	64.1291	91.6120	30.8736	15.5605	8.2838	3.6043	36.7104	54.3579	69.4379	12.1967	406.8996
761	5.4201	3.8744	4.0969	43.5696	59.4788	24.2291	11.7526	5.7402	3.5922	29.3246	52.0570	60.5170	12.8641	311.0961
762	0.0473	0.7743	2.4763	28.6320	59.7045	19.6149	7.2394	2.2143	2.7055	22.2757	44.7673	56.7226	11.0328	258.1594
763	0.9776	5.5475	6.0381	50.3632	67.8014	26.9219	12.8107	6.4169	3.6658	32.9974	53.7845	64.1053	12.6066	343.0591
764	0.0327	0.2056	2.0162	15.0052	72.9682	32.8933	19.0883	12.0894	7.0611	35.5414	58.1207	59.6705	9.2769	323.9364
801	0.1899	0.0000	0.9181	15.7142	72.0853	27.4882	14.3867	8.8031	4.5546	27.2585	47.4844	49.9465	3.9832	272.6226
802	0.1652	0.0000	0.9186	15.7300	72.2067	27.5505	14.4226	8.8282	4.5685	27.3245	47.5845	50.0451	3.9912	273.1702
803	0.0207	0.0000	1.3868	9.1300	76.9092	21.6151	9.6982	4.5710	2.3270	16.7423	36.4989	42.1440	4.1268	225.1491
804	0.1544	0.0000	1.2175	11.5096	75.1662	23.7352	11.3909	6.0993	3.1314	20.5418	40.4690	44.9634	4.0750	242.2991
805	0.4573	1.9258	3.1757	20.4105	78.2148	21.7956	9.7603	4.9020	2.3181	18.2905	36.6033	45.2755	5.7798	248.4517
806	0.0286	0.0058	2.2854	10.9537	63.5167	14.1537	2.7535	0.1808	0.0000	3.9977	18.0816	36.4434	6.1406	158.5126
807	4.6905	4.7602	4.8208	47.0507	64.1214	27.4195	14.2426	8.6052	5.5205	34.9923	53.7280	62.4210	12.2307	339.9125
808	0.0318	0.0053	2.5084	14.5482	66.5948	10.9969	1.9234	0.1190	0.0000	2.1664	16.5888	32.5043	6.9392	154.8945
809	0.0208	0.0050	2.6194	16.3523	68.0666	9.3709	1.4948	0.0868	0.0000	1.2399	15.8173	30.4770	7.3353	152.8650
810	0.2197	1.5342	2.3906	34.8117	47.6187	15.7655	5.7242	2.1639	2.4655	18.4929	40.3884	47.7933	11.7987	230.9472
811	3.6146	3.2215	3.1197	44.1833	53.0618	24.4947	12.7867	7.4131	5.3134	32.7574	55.1383	61.2785	13.4355	316.2036
812	4.5811	2.8906	2.7977	36.2341	57.3330	25.0798	13.0519	7.4120	5.3458	30.8888	53.0242	58.6693	12.3896	305.1165
813	0.0763	0.1463	2.2605	12.9378	64.3328	16.0437	4.1200	0.4376	0.0036	6.8570	22.7010	39.4805	6.8443	176.1647
814	4.3673	2.4146	1.9244	37.0059	48.6491	19.9899	9.2555	3.7480	2.8072	24.2176	49.3562	56.3091	12.7870	268.4642
815	0.0444	0.0846	2.1179	8.5605	63.4490	21.4334	6.1690	0.7290	0.0135	10.9279	27.0341	45.8686	6.0525	192.4396
816	0.6943	1.8930	2.2314	37.3393	41.6699	16.2547	6.4793	1.3633	0.8598	17.4531	43.0979	50.6212	12.3572	231.6199
817	0.1234	0.7078	2.2217	26.0998	49.9168	17.8847	5.9295	0.8093	0.3149	13.9981	36.0503	48.3625	10.2070	212.5021
818	2.1621	1.5999	2.1035	35.8917	50.7238	20.4746	9.6720	4.3160	2.6424	22.9038	47.6421	55.9644	12.0369	265.9709
819	0.1383	0.8646	2.1555	26.9821	47.7618	15.6437	4.7265	0.5828	0.2987	11.7571	33.2218	45.9010	10.2024	200.0978
820	0.1090	1.1043	2.2385	25.2500	47.2355	13.6414	3.4742	0.2075	0.0077	8.4765	29.2691	43.3240	9.4502	183.6786
821	7.7087	2.4366	2.3223	35.4737	54.5556	22.4618	10.9852	5.1562	3.5169	25.9682	50.0520	57.4444	12.2917	282.6643
822	0.0462	0.2572	2.1298	12.0122	57.5759	16.0481	3.4527	0.2247	0.0000	6.2228	21.6541	40.5588	6.3958	166.5318
823	2.7867	1.6779	2.0480	31.8419	52.0836	20.2613	8.8930	3.2495	2.3228	22.0053	46.2569	54.7624	11.8528	257.2552
824	2.7875	1.9133	2.0120	34.1293	48.8644	18.4943	7.9757	2.7838	2.0375	20.4975	45.9069	53.9752	12.5149	251.1044
825	0.0888	1.2307	2.2093	29.7792	46.5194	15.4813	5.1714	0.7572	0.4424	13.3589	36.7697	47.3830	10.9004	210.0025
826	7.6250	2.7503	2.1182	38.4882	49.0170	21.8032	10.6111	4.6709	3.4540	27.1474	51.3503	57.5066	12.9968	281.9139
827	0.0354	0.3134	1.7798	21.9404	53.5844	15.9357	4.7917	0.8092	0.2912	9.2877	30.3192	44.9366	9.0236	193.0125
828	0.0299	0.2912	1.8022	20.9273	54.1019	15.9978	4.6941	0.7671	0.2697	9.0155	29.5219	44.5585	8.7657	190.7124
829	0.0974	1.5980	1.3351	28.7272	47.6823	15.5179	4.9896	0.7561	0.3660	11.9445	34.6910	46.7338	10.5897	204.9310

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
830	2.6253	2.0431	2.0993	36.8880	45.9996	19.7801	9.0756	3.1215	2.0299	22.5389	46.7011	53.7414	12.3176	256.3359
831	0.2743	3.3767	0.6835	39.2163	39.4102	14.8336	5.4816	0.8119	0.5121	15.7417	41.9636	49.8673	13.2106	225.1088
832	0.1364	3.0212	1.1978	37.1253	40.7821	14.9190	5.2196	0.7412	0.4464	14.6642	39.6693	48.8876	12.5235	219.1969
833	4.9042	2.9277	2.6337	37.9083	51.4452	22.7998	11.4800	5.5897	4.0215	28.2643	51.5141	57.6244	12.8137	289.0222
834	0.0303	3.9726	3.8265	40.5433	43.0403	19.0964	7.4254	3.7741	3.7177	19.6761	40.1342	58.4240	18.4316	262.0620
835	0.0645	1.9759	2.8078	32.7749	43.2959	15.2116	3.7717	1.1757	1.1259	11.2078	29.2849	49.3539	16.6829	208.6686
836	2.1880	4.0662	2.3932	44.2283	40.2191	18.6943	7.7598	3.6127	4.3756	22.1763	46.5864	62.0245	18.9813	275.1175
837	0.0337	1.6303	2.8951	30.5997	44.9698	15.3544	3.5722	1.1093	0.9563	10.2072	26.9913	47.8519	16.1872	202.3244
838	0.0239	0.6805	3.4053	23.7195	50.0917	15.8064	2.9498	0.9025	0.4229	7.1161	19.9295	43.3259	14.7074	183.0573
839	3.3264	5.1372	2.9484	47.5421	41.7604	21.3780	9.8877	6.1623	7.2832	28.4202	51.5795	65.8708	20.0843	308.0537
840	1.0502	4.2081	2.7253	42.2840	38.6536	16.7327	6.2211	2.3139	2.9160	18.8361	43.4692	59.6625	19.0336	257.0558
841	0.1102	3.0940	40.9717	35.6735	14.5294	4.5492	1.4383	1.7897	15.2724	38.6194	53.5158	18.9667	3.9770	232.3969
842	0.1308	3.6864	2.3670	43.5017	34.8476	14.4382	4.7437	1.5026	1.9725	16.1363	40.5501	56.6390	19.0946	239.4794
843	6.8981	5.0613	3.1013	47.5413	41.7503	21.9698	10.3310	6.8819	8.1157	29.1494	51.6521	65.9745	20.0331	311.5615
844	0.0754	4.2125	2.3696	45.6617	29.5430	11.2696	3.1965	1.1997	1.0336	13.4072	36.9416	54.5962	18.8394	222.2704
845	0.0213	4.0927	2.2439	45.6019	29.1111	10.5895	2.6521	0.7641	0.5970	12.3762	36.1374	53.9177	18.6192	216.7026
846	0.0254	1.8416	3.5717	36.0010	44.6923	10.5821	2.6292	0.7421	0.8110	7.5322	26.8910	45.3919	15.4086	196.0944
847	0.2893	4.6157	5.7299	42.5013	37.1752	17.2338	5.3779	3.5361	7.8794	24.9237	49.1664	61.6578	20.4881	280.2849
848	2.7345	4.7802	3.1982	49.1649	40.1668	20.1562	9.5312	5.5077	5.9798	25.7603	49.6511	63.5911	19.5272	297.0143
849	1.6469	5.0278	3.9262	48.5329	41.0904	20.7665	9.8626	6.1664	7.1659	27.2896	50.1759	63.1748	19.0866	302.2652
850	0.2326	4.4477	3.7996	44.6658	32.3140	13.9383	3.9998	2.1827	4.3235	19.0254	43.2308	58.3029	19.7801	250.0104
851	0.2326	4.4470	3.7965	44.6674	32.3077	13.9317	3.9971	2.1800	4.3160	19.0119	43.2165	58.2941	19.7780	249.9437
852	5.4305	4.4720	3.3167	45.0630	43.6225	21.2463	9.4957	5.5537	6.6368	26.4075	50.0357	64.3620	19.8134	300.0250
853	5.3264	4.4990	2.5295	48.5048	38.2806	19.4417	8.8916	5.0501	5.5762	24.3480	48.7369	63.2957	19.4188	288.5726
854	0.0267	3.5799	2.3758	42.4130	31.9900	11.3146	2.6778	0.7778	0.5610	11.5770	33.7309	52.3154	18.0328	211.3458
855	0.1517	4.0328	2.4678	45.0446	29.2291	10.8157	2.7082	0.7976	0.6398	12.2688	35.6522	53.7710	18.8655	216.2929
856	0.0258	2.6474	2.6300	36.9728	39.9265	14.8905	4.1507	1.3041	1.4618	13.1382	33.6817	52.1610	17.6160	220.5805
857	0.9950	4.8928	3.2747	45.6526	35.2506	17.6739	7.7929	3.4328	4.3499	22.5353	46.7049	60.6195	18.9680	271.1478
858	0.0328	3.3427	2.4489	41.6786	35.1899	13.7462	4.0024	1.2466	1.4186	13.9744	36.5886	54.1716	18.5287	226.3370
859	3.4439	5.2386	3.1787	48.4947	37.4861	19.5447	9.1675	5.1507	5.6954	25.4646	49.8467	63.6253	19.7284	292.6212
860	0.0367	2.9681	2.5501	38.5893	35.7590	12.1830	2.6956	0.7917	0.5057	10.5652	30.7674	50.4389	17.4035	205.2172
861	3.0772	3.8683	2.5431	46.5395	37.9174	19.7819	9.3680	4.6258	5.4207	24.4576	48.8775	61.7483	18.6264	283.7742
862	0.0597	4.7729	3.1998	44.6814	32.1443	14.0423	4.7936	1.5221	2.0244	16.8716	42.4596	58.0718	19.8539	244.4374
863	0.2171	4.6108	3.1373	44.1015	32.8068	14.1700	4.7793	1.5156	2.0008	16.6561	41.8992	57.6545	19.7343	243.0660

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
864	0.1687	4.9059	3.2704	45.1362	31.9246	14.1592	4.9242	1.5783	2.1219	17.2753	43.1416	58.5569	19.9934	246.9876
865	0.0255	4.0784	2.2624	45.9582	32.8975	14.2607	4.9675	1.5774	2.1648	17.2651	43.1237	58.2921	19.6442	246.4917
866	0.0995	4.6670	3.0618	44.4723	32.6264	14.2211	4.8529	1.5430	2.0559	16.9072	42.3709	58.0060	19.8076	244.5918
867	7.0547	4.2053	2.3866	46.7383	40.0891	20.6402	9.7103	5.3834	6.0313	25.3097	49.6039	63.6399	18.7025	292.4402
868	0.0592	4.7485	3.1781	44.6712	32.1977	14.0672	4.8048	1.5260	2.0311	16.8884	42.4723	58.0792	19.8702	244.5345
869	0.2172	4.6041	3.1377	44.0679	32.8378	14.1743	4.7771	1.5147	1.9987	16.6412	41.8646	57.6305	19.7258	242.9742
870	0.1687	4.9030	3.2705	45.1222	31.9369	14.1603	4.9230	1.5779	2.1207	17.2687	43.1263	58.5468	19.9899	246.9460
871	0.0997	4.6625	3.0620	44.4495	32.6476	14.2243	4.8514	1.5425	2.0545	16.8971	42.3476	57.9897	19.8018	244.5301
872	7.1256	4.2040	2.3780	46.7418	40.0993	20.6328	9.6979	5.3808	6.0306	25.2728	49.6057	63.6654	18.7161	292.4249
873	25.8389	4.5795	3.8744	44.9428	45.0301	21.9538	10.3036	6.1410	6.7614	26.8880	49.9082	65.5569	20.2800	306.2195
874	0.1140	4.8899	5.0877	41.0971	33.2470	14.3475	5.0749	2.0363	2.2404	16.0362	39.2968	56.2698	19.0013	238.6247
875	0.0854	4.9251	5.6535	41.6520	32.8962	14.3498	5.0051	1.7103	2.1105	16.5021	41.6222	57.8937	19.6887	244.0089
876	0.4446	5.6003	4.6145	44.9365	37.9420	20.8111	10.0759	5.6539	6.2625	26.8527	50.3908	64.7192	20.4866	298.3458
877	5.2953	5.1482	3.9348	47.8962	44.0058	23.8023	11.7710	7.4969	8.0401	30.7012	54.0402	68.8024	20.1322	325.7712
878	4.0376	6.2468	4.4833	50.4382	43.6821	24.1097	12.4948	8.3022	8.6246	33.2061	55.3109	69.9913	21.2917	338.1815
879	0.0701	4.1397	2.3073	46.2018	32.6087	14.2055	5.0537	1.6478	2.1477	16.8565	43.0470	58.4048	19.6923	246.3126
880	6.7158	5.6645	3.9047	47.3721	41.5684	23.0188	11.6802	7.2394	7.9159	30.7145	53.7376	67.5385	20.6032	320.9575
881	0.0457	4.0066	2.3220	45.5688	28.9767	10.6179	2.7311	0.7990	0.5772	11.9079	35.9127	53.8902	18.6165	215.9264
882	0.2844	3.7021	2.5572	44.2850	31.3619	10.7678	2.7988	0.8598	0.7600	11.5509	34.9616	52.8224	18.1163	214.5435
883	0.2902	3.7062	2.5596	44.3041	31.3385	10.7763	2.8051	0.8660	0.7740	11.5896	35.0117	52.8516	18.1251	214.7075
884	9.0634	4.3923	3.1443	45.0268	44.1422	22.5544	10.5839	6.4520	7.0574	27.7333	50.5503	65.7284	19.2518	306.6168
885	0.1466	3.4666	2.8669	43.4664	37.5693	14.7247	5.5414	2.1953	2.5079	15.8406	40.1314	55.7120	18.1694	242.1917
886	8.7433	4.7463	3.5589	44.9831	42.4252	21.4691	9.5645	5.7093	7.1103	27.2708	50.1197	64.9106	19.5277	301.3953
887	1.2169	3.5343	1.1364	42.8791	45.3679	21.5377	9.7624	4.2920	4.9552	23.7489	47.4434	61.8701	16.3084	282.8354
888	11.4533	4.2798	3.3606	44.8210	43.7646	21.8322	10.2135	6.5932	7.4898	27.4885	50.9340	64.6708	18.8982	304.3459
889	0.8397	3.1153	3.2702	47.3801	41.4563	20.4648	9.4667	6.4252	5.9219	21.7166	47.0826	63.4210	18.7195	288.4399
890	18.5665	4.3823	3.4900	45.4525	40.9549	20.2854	9.1029	5.2690	6.1705	25.3312	49.5826	64.4464	19.7558	294.2232
891	0.0890	0.4186	4.1418	30.6292	53.3431	10.1979	2.4997	0.5762	0.4169	3.6346	20.5169	39.9105	13.2913	179.5765
892	0.3537	3.3950	3.4104	43.4242	36.7761	14.4827	4.8164	2.0707	3.1649	15.6569	40.3473	56.3258	18.6359	242.5061
893	0.0680	0.3436	4.1344	30.0906	54.0619	10.0370	2.4130	0.4961	0.3165	3.3594	19.8747	39.3042	13.1459	177.5769
894	0.0772	0.2728	3.9898	28.2652	53.8191	11.1096	2.4738	0.5431	0.2809	3.7556	19.1124	39.5110	13.1516	176.2847
895	7.0878	2.4836	2.5078	36.9116	49.1889	21.6423	9.3768	5.3510	5.6937	22.0749	44.6226	60.4596	17.1829	277.4953
896	26.4622	3.1332	3.8655	47.6817	37.1406	16.7376	9.5365	4.4488	6.9336	18.2268	44.7092	54.6012	20.7393	267.7537
897	31.2861	3.7137	6.2295	43.3710	41.1049	17.2260	9.4152	4.4295	7.1886	18.7899	44.9862	55.9760	21.9098	274.3399

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
898	16.0349	5.0845	11.0608	63.5012	77.1499	23.8917	13.5272	4.9703	7.5450	21.3137	42.6737	57.1578	19.8298	347.7054
899	6.2358	5.0174	8.8972	59.2889	57.9598	19.9335	11.8210	4.8696	7.4307	20.4114	44.4883	57.4760	21.6501	319.2434

Table AG.8: Total monthly evapotranspiration (mm over watershed) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Evapotranspiration (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	0.17	1.16	15.50	37.57	44.34	65.41	68.40	59.80	41.70	16.58	2.69	0.03	353.36
602	0.2196	0.17	1.15	15.29	36.79	42.34	60.05	66.48	54.52	36.11	15.23	2.60	0.03	330.76
603	0.3655	0.15	0.99	13.68	33.91	39.25	57.03	62.38	52.20	34.94	14.01	2.33	0.03	310.89
604	0.7529	0.15	0.97	13.43	33.48	39.15	57.95	60.70	50.99	35.16	13.87	2.30	0.03	308.18
605	3.2117	0.17	1.15	15.28	36.76	42.85	60.61	65.25	57.38	39.28	16.04	2.65	0.03	337.45
606	0.1626	0.17	1.16	15.42	37.23	42.97	61.77	68.52	56.56	37.46	15.53	2.63	0.03	339.48
607	14.1530	0.17	1.06	14.74	38.31	46.00	68.50	72.33	69.05	48.79	17.76	2.73	0.03	379.46
608	27.4480	0.17	1.11	15.40	38.41	45.39	68.32	72.39	66.15	46.26	17.40	2.72	0.03	373.74
609	10.9853	0.16	1.06	14.66	35.63	41.24	62.76	66.20	59.25	42.05	16.16	2.57	0.03	341.78
610	14.7211	0.17	1.13	15.36	37.36	43.84	63.68	68.37	63.25	43.75	16.88	2.70	0.03	356.51
611	26.6505	0.17	1.11	15.03	36.38	43.20	62.13	65.44	60.96	42.79	16.64	2.65	0.03	346.53
612	11.2644	0.17	1.11	15.08	36.51	42.86	62.02	64.19	59.48	42.54	16.61	2.67	0.03	343.27
613	0.2886	0.17	1.13	15.99	41.36	48.37	87.03	94.95	80.95	54.61	18.94	2.74	0.03	446.26
614	1.3068	0.17	1.13	15.25	37.11	43.29	64.11	67.61	57.05	39.85	16.08	2.65	0.03	344.34
615	0.1323	0.17	1.16	15.81	39.60	46.32	74.59	83.48	69.70	46.27	17.31	2.71	0.03	397.15
616	6.6770	0.17	1.13	15.30	37.40	43.81	63.44	67.07	61.78	43.22	16.82	2.71	0.03	352.88
617	6.6685	0.18	1.17	15.88	38.86	46.19	71.45	73.50	63.90	45.24	17.19	2.75	0.03	376.34
618	23.0036	0.17	1.12	15.16	36.65	43.47	65.86	65.72	57.30	41.78	16.31	2.66	0.03	346.24
619	3.0191	0.17	1.11	14.92	36.35	43.14	63.87	65.32	57.78	40.80	16.02	2.62	0.03	342.12
620	8.1604	0.17	1.14	15.29	36.74	43.16	64.23	67.88	60.77	42.74	16.67	2.70	0.03	351.54
621	0.3152	0.18	1.18	15.86	39.14	45.90	71.38	79.45	67.02	44.54	16.91	2.74	0.03	384.34
622	1.1440	0.18	1.19	15.84	38.62	45.46	69.29	73.43	61.37	42.06	16.49	2.74	0.03	366.70
623	1.8901	0.19	1.21	15.94	38.21	45.05	66.38	67.75	56.04	39.32	16.12	2.76	0.03	349.01
624	12.2594	0.18	1.16	15.80	38.88	45.99	67.64	72.43	65.48	45.10	17.30	2.78	0.03	372.75
625	15.6152	0.17	1.13	15.25	36.39	42.51	63.17	65.56	58.14	41.52	16.37	2.69	0.03	342.93
626	0.7993	0.18	1.18	15.67	37.58	44.30	64.42	67.54	61.35	42.89	17.02	2.78	0.03	354.95
627	0.1828	0.18	1.18	15.58	37.19	43.96	62.00	65.85	62.83	43.72	17.35	2.80	0.03	352.66
628	7.4942	0.18	1.15	15.36	36.33	42.28	62.64	65.16	56.53	40.09	16.04	2.69	0.03	338.48
629	0.1004	0.18	1.17	15.95	39.70	47.24	78.23	80.63	67.87	47.83	17.59	2.78	0.03	399.18
630	3.7583	0.18	1.17	15.42	36.00	41.93	61.36	63.03	54.08	38.70	15.77	2.70	0.03	330.38
631	0.0635	0.18	1.20	15.99	38.88	46.98	75.91	69.13	57.32	43.91	16.96	2.80	0.03	369.30
632	13.3844	0.18	1.18	15.74	37.40	43.74	63.56	68.41	59.94	41.14	16.39	2.75	0.03	350.47
633	0.5487	0.18	1.17	15.63	37.74	44.58	65.26	69.79	65.00	45.04	17.49	2.80	0.03	364.71

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	0.18	1.19	15.86	38.71	45.08	69.27	77.24	65.39	43.62	16.78	2.76	0.03	376.11
635	5.9121	0.18	1.17	15.57	36.75	42.74	61.63	66.71	59.59	41.19	16.46	2.75	0.03	344.78
636	12.5299	0.19	1.18	15.69	37.43	43.61	64.65	69.73	62.62	43.21	16.80	2.77	0.04	357.93
637	0.0577	0.36	2.26	19.26	38.51	45.77	72.36	76.81	64.57	42.96	16.90	2.78	0.02	382.54
638	5.3140	0.18	1.17	15.51	36.89	42.51	60.93	66.67	56.30	37.92	15.57	2.69	0.03	336.37
639	14.0470	0.37	2.30	19.44	37.96	44.76	65.81	69.02	59.20	40.77	16.54	2.83	0.03	359.04
640	0.1244	0.36	2.20	19.04	38.46	45.43	69.29	73.47	66.68	45.24	17.44	2.81	0.02	380.46
641	1.0287	0.37	2.28	19.03	37.00	43.19	62.17	67.04	55.22	36.69	15.61	2.76	0.03	341.40
642	0.0691	0.35	2.21	19.81	42.02	52.10	96.53	97.12	84.48	57.83	20.02	2.86	0.02	475.34
643	5.2502	0.38	2.31	18.93	35.80	41.51	58.32	64.04	53.10	35.25	15.31	2.77	0.03	327.72
644	0.6674	0.37	2.24	19.11	38.18	45.14	68.80	73.57	64.35	43.09	16.91	2.81	0.02	374.59
645	4.0982	0.38	2.32	18.94	35.39	40.75	57.11	64.28	55.26	36.46	15.60	2.80	0.03	329.34
646	0.1058	0.38	2.31	19.10	36.85	44.90	66.66	56.77	44.90	36.65	15.67	2.82	0.03	327.03
647	2.9632	0.38	2.31	19.09	36.48	42.44	60.97	66.44	55.61	37.04	15.69	2.80	0.03	339.27
648	1.4051	0.38	2.31	19.25	37.28	44.20	66.39	65.52	53.39	38.40	16.04	2.82	0.03	346.01
649	0.0674	0.38	2.32	19.08	36.73	44.60	65.60	56.77	44.83	36.09	15.55	2.82	0.03	324.79
650	6.3381	0.16	1.02	14.74	38.15	46.66	78.52	83.25	73.96	51.94	17.93	2.68	0.03	409.05
651	4.8242	0.36	2.15	18.65	38.13	46.68	73.49	75.45	67.37	46.07	17.23	2.78	0.03	388.39
652	16.2879	0.37	2.27	19.11	37.05	43.65	65.32	67.80	57.92	40.51	16.39	2.81	0.03	353.22
653	3.0394	0.39	2.32	18.98	35.04	40.51	56.48	62.84	55.24	37.21	15.70	2.81	0.03	327.54
654	11.9029	0.37	2.26	18.95	36.60	43.08	64.37	66.82	57.52	40.24	16.26	2.80	0.03	349.29
655	0.0840	0.39	2.32	19.07	36.66	44.27	64.64	57.19	45.21	35.72	15.49	2.83	0.03	323.81
656	5.1345	0.38	2.28	18.97	36.06	42.20	62.81	65.30	55.47	38.78	16.00	2.79	0.03	341.07
657	0.0735	0.37	2.27	19.21	38.17	45.25	70.43	75.21	63.09	42.03	16.69	2.81	0.03	375.55
658	0.0458	0.38	2.29	18.88	36.16	41.67	56.92	63.69	51.77	33.50	14.93	2.77	0.03	322.99
659	0.0658	0.37	2.27	19.28	38.51	45.78	72.36	77.02	64.80	43.21	16.94	2.82	0.03	383.39
660	8.5454	0.38	2.30	19.17	36.58	42.79	62.02	64.94	55.49	38.56	16.02	2.82	0.03	341.12
661	0.0307	0.38	2.29	19.00	36.86	42.90	61.52	67.48	55.56	36.44	15.55	2.79	0.03	340.79
662	8.8341	0.38	2.30	19.04	35.95	41.76	59.64	65.07	55.76	37.64	15.76	2.81	0.03	336.15
663	0.5166	0.39	2.25	18.90	35.41	40.80	56.47	63.04	58.47	39.81	16.24	2.82	0.03	334.62
664	0.0522	0.37	2.24	19.53	40.15	48.76	83.86	86.67	74.28	50.43	18.43	2.86	0.03	427.60
665	6.5997	0.39	2.33	19.37	36.84	43.01	63.30	68.78	59.72	40.23	16.43	2.86	0.03	353.29
666	0.0636	0.35	2.20	19.96	42.87	53.61	102.20	102.09	89.37	61.54	20.81	2.93	0.02	497.96
667	0.0706	0.35	2.21	19.96	42.86	53.59	102.15	101.99	89.28	61.46	20.81	2.93	0.02	497.60
668	1.8870	0.38	2.26	19.54	39.14	46.78	75.96	79.22	70.12	48.18	18.12	2.90	0.03	402.62

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	0.42	2.36	19.41	37.12	43.48	62.29	65.78	57.56	39.64	16.31	2.90	0.05	347.32
670	5.7881	0.37	2.20	18.56	35.64	41.37	60.67	63.98	57.26	40.54	16.28	2.78	0.03	339.68
671	0.3355	0.38	2.29	19.16	37.55	44.30	67.02	72.33	60.67	40.17	16.29	2.83	0.03	363.03
672	0.9395	0.39	2.34	19.26	35.73	41.70	63.43	66.31	55.66	38.93	16.15	2.84	0.03	342.77
673	7.9997	0.37	2.18	18.62	36.52	42.73	62.56	65.06	59.63	42.49	16.61	2.79	0.03	349.59
674	0.0497	0.37	2.30	20.68	42.94	51.29	98.82	95.11	79.36	58.65	20.72	2.98	0.03	473.23
675	0.1866	0.37	2.30	20.63	42.67	50.92	97.43	94.11	78.55	57.91	20.56	2.98	0.03	468.44
676	5.5909	0.36	2.16	18.35	36.27	42.45	62.88	63.91	55.36	39.99	16.05	2.75	0.03	340.55
677	0.0398	0.37	2.28	20.53	42.58	50.75	97.31	93.75	78.29	58.00	20.57	2.96	0.03	467.42
678	0.1595	0.31	1.91	17.19	35.16	39.80	67.47	66.48	59.44	45.90	16.92	2.54	0.02	353.14
679	0.6001	0.31	1.86	16.73	34.70	39.11	59.74	58.58	55.70	44.07	16.54	2.54	0.02	329.90
701	0.1254	0.28	1.72	16.20	38.85	50.08	71.58	64.08	62.40	46.92	17.29	2.52	0.02	371.96
702	0.0799	0.28	1.72	16.19	38.83	50.05	71.52	64.04	62.35	46.89	17.29	2.52	0.02	371.69
703	0.2377	0.28	1.72	16.20	38.86	50.09	71.60	64.09	62.41	46.92	17.29	2.52	0.02	372.02
704	0.2098	0.28	1.72	16.20	38.86	50.09	71.60	64.09	62.41	46.92	17.29	2.52	0.02	372.02
705	1.3627	0.28	1.70	16.01	38.19	48.89	69.39	62.19	60.54	45.91	17.13	2.50	0.02	362.74
706	0.2602	0.26	1.55	14.65	33.66	40.77	54.48	49.43	47.90	39.03	15.93	2.32	0.02	299.99
707	0.3074	0.26	1.55	14.63	33.60	40.69	54.37	49.34	47.79	38.97	15.92	2.32	0.02	299.46
708	1.8884	0.28	1.68	15.78	36.68	45.69	63.89	57.96	54.02	42.31	16.54	2.43	0.02	337.30
709	0.1895	0.31	1.88	17.25	39.38	47.20	62.31	57.77	52.76	40.16	16.55	2.57	0.03	338.17
710	1.1343	0.35	2.17	19.59	44.34	53.32	73.16	69.13	62.19	45.28	17.85	2.83	0.03	390.23
711	0.0620	0.29	1.69	16.13	37.34	47.07	67.83	64.74	63.85	48.73	17.16	2.51	0.02	367.35
712	2.1799	0.34	2.04	18.78	42.94	52.72	74.95	70.46	65.49	47.88	17.76	2.74	0.03	396.13
713	2.0642	0.39	2.35	21.33	49.18	60.12	83.65	75.78	68.64	49.98	18.99	3.01	0.03	433.44
714	0.9506	0.40	2.39	21.50	47.92	56.71	75.01	69.26	63.38	46.85	18.90	3.05	0.03	405.41
715	1.6470	0.40	2.42	21.83	50.33	60.22	80.29	73.84	66.20	46.94	18.50	3.04	0.03	424.05
716	0.0265	0.37	2.25	21.13	50.10	65.68	108.94	100.42	88.12	60.76	20.01	2.92	0.03	520.73
717	0.0813	0.40	2.42	21.73	49.69	59.02	76.89	72.62	61.39	41.96	17.56	2.99	0.03	406.70
718	0.0364	0.37	2.26	21.07	49.67	64.14	103.01	95.55	83.75	58.50	20.32	2.99	0.03	501.63
719	3.9405	0.39	2.38	21.57	50.80	62.27	84.70	76.26	67.00	47.54	18.30	2.99	0.03	434.22
720	2.9784	0.40	2.40	21.79	51.31	63.11	86.45	76.58	68.22	49.53	18.88	3.04	0.03	441.73
721	0.1524	0.38	2.28	21.02	49.58	62.68	95.59	89.03	79.39	55.93	20.02	2.99	0.03	478.91
722	3.9243	0.39	2.36	21.38	50.00	60.95	82.63	75.41	67.91	48.00	18.55	2.99	0.03	430.62
723	0.0279	0.40	2.43	21.72	49.67	59.00	76.86	72.54	61.32	41.95	17.57	3.00	0.03	406.49
724	0.2535	0.37	2.21	19.99	45.86	54.98	71.98	67.37	57.96	41.11	17.07	2.83	0.03	381.75

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.0684	0.34	2.02	18.46	42.51	51.39	67.49	62.65	54.89	40.34	16.65	2.69	0.03	359.46
726	1.3912	0.38	2.29	20.55	46.16	54.75	73.86	70.44	62.81	44.57	17.75	2.91	0.03	396.50
727	3.2773	0.46	2.46	21.71	50.65	62.50	88.94	81.13	72.80	51.82	19.35	3.11	0.09	455.02
728	0.3486	0.40	2.43	21.83	50.02	59.62	78.67	74.21	63.06	43.14	17.81	3.02	0.03	414.25
729	1.9885	0.38	2.24	20.60	49.06	61.05	85.79	77.47	71.14	51.74	19.03	2.96	0.03	441.49
730	13.8867	0.32	1.72	17.81	38.92	46.36	72.83	75.99	67.16	47.78	17.75	2.85	0.05	389.54
731	0.1371	0.39	2.18	19.09	39.98	50.80	79.27	79.44	72.85	48.40	17.39	2.86	0.03	412.68
732	0.0378	0.35	2.12	19.27	44.48	68.65	113.14	99.74	87.25	53.63	16.33	2.66	0.03	507.66
733	0.9503	0.40	2.29	19.57	39.52	48.11	76.81	78.01	67.14	45.95	17.29	2.90	0.03	398.03
734	1.1721	0.40	2.27	19.12	37.49	44.12	65.31	68.66	60.54	41.87	16.62	2.90	0.03	359.34
735	0.1015	0.33	1.89	16.51	33.25	39.06	58.53	62.02	57.93	42.43	16.01	2.60	0.03	330.60
736	9.8639	0.39	2.28	19.43	38.86	46.55	72.59	73.32	63.42	44.46	17.01	2.88	0.03	381.23
737	0.1350	0.40	2.30	19.07	37.18	43.48	63.74	69.44	57.55	37.84	15.75	2.87	0.03	349.67
738	2.7769	0.34	1.80	18.13	38.74	46.04	70.49	73.51	64.74	45.92	17.52	2.92	0.05	380.20
739	4.5566	0.33	1.77	17.91	37.99	44.56	65.71	71.27	63.46	44.41	17.13	2.87	0.05	367.47
740	0.0420	0.41	2.20	18.92	37.99	44.33	64.09	68.89	64.89	44.20	17.27	2.94	0.03	366.17
741	1.3845	0.33	1.71	17.52	37.17	42.99	70.36	76.09	66.46	46.86	17.48	2.82	0.05	379.84
742	3.0189	0.32	1.65	17.02	36.53	42.29	67.18	72.32	63.07	45.20	16.96	2.76	0.05	365.35
743	0.3395	0.34	1.81	18.00	37.68	43.40	65.68	72.16	59.32	41.05	16.47	2.87	0.06	358.85
744	0.0668	0.34	1.79	17.86	38.28	44.61	67.26	74.62	60.29	41.48	16.54	2.86	0.06	365.99
745	0.0587	0.33	1.74	17.86	39.49	46.78	78.14	86.31	70.74	48.88	17.86	2.87	0.05	411.06
746	2.7704	0.33	1.71	17.56	37.96	44.23	68.07	72.19	63.46	45.10	17.21	2.84	0.05	370.70
747	1.2664	0.33	1.73	17.84	38.94	46.08	75.79	77.58	66.87	47.63	17.83	2.88	0.05	393.55
748	4.2834	0.33	1.77	18.35	40.16	47.61	73.59	78.26	68.48	48.11	17.91	2.92	0.05	397.55
749	7.1426	0.26	1.42	15.67	38.98	50.04	59.37	71.13	56.18	34.97	15.23	2.95	0.12	346.34
750	4.4702	0.26	1.40	15.75	39.15	49.90	65.99	78.27	60.98	36.72	15.57	2.94	0.11	367.06
751	0.1943	0.26	1.40	15.27	37.11	47.14	53.93	63.52	47.36	30.36	14.09	2.89	0.12	313.46
752	3.9813	0.30	1.47	15.83	39.93	51.23	66.11	76.47	58.99	35.99	15.56	3.00	0.15	365.02
753	1.8866	0.27	1.43	15.81	39.10	50.05	62.77	74.82	56.94	34.36	15.07	2.96	0.12	353.70
754	2.1167	0.27	1.44	15.98	40.12	51.03	64.47	76.15	59.03	35.88	15.59	3.02	0.12	363.10
755	0.1806	0.27	1.44	15.72	38.69	48.87	55.39	67.47	48.77	30.10	14.11	2.93	0.12	323.87
756	0.9717	0.26	1.40	16.00	42.09	54.82	77.09	87.22	69.57	42.00	17.07	3.04	0.11	410.67
757	1.6273	0.27	1.42	15.99	41.56	53.19	70.83	81.49	64.55	39.22	16.44	3.04	0.11	388.12
758	0.1636	0.26	1.39	15.69	41.76	55.78	76.72	92.09	73.35	44.16	17.03	3.02	0.11	421.36
759	0.6767	0.26	1.35	15.86	43.30	56.89	84.64	97.43	78.59	46.48	17.90	3.03	0.10	445.83

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
760	1.6425	0.26	1.40	16.04	42.72	55.03	75.78	86.42	69.84	42.08	17.10	3.05	0.11	409.82
761	5.4201	0.77	2.06	16.46	40.41	51.86	63.66	75.12	58.50	36.10	15.87	3.45	0.58	364.83
762	0.0473	0.25	1.33	15.16	41.42	65.47	80.45	84.73	65.76	34.57	13.12	2.69	0.11	405.07
763	0.9776	0.26	1.41	15.80	40.86	53.10	68.91	80.62	61.81	36.81	15.55	2.97	0.12	378.22
764	0.0327	0.20	0.97	11.63	30.93	40.22	48.96	59.87	51.61	34.02	14.09	2.44	0.09	295.03
801	0.1899	0.20	0.99	11.76	31.35	36.95	41.77	50.20	45.83	32.58	14.24	2.50	0.09	268.47
802	0.1652	0.20	0.99	11.76	31.35	36.96	41.78	50.20	45.83	32.59	14.24	2.50	0.09	268.48
803	0.0207	0.19	0.95	11.31	29.67	33.97	38.61	46.63	41.82	30.56	13.68	2.40	0.09	249.87
804	0.1544	0.19	0.96	11.47	30.28	35.05	39.75	47.92	43.27	31.29	13.89	2.44	0.09	256.60
805	0.4573	0.20	1.01	12.04	31.85	37.69	45.45	53.69	46.79	32.70	14.35	2.52	0.09	278.39
806	0.0286	0.23	1.19	13.95	37.63	48.68	70.47	86.18	68.79	42.56	16.52	2.81	0.10	389.11
807	4.6905	0.27	1.40	15.58	39.45	50.23	63.98	75.63	59.26	36.64	15.61	2.99	0.12	361.16
808	0.0318	0.20	1.02	12.03	31.79	39.15	49.76	59.15	49.10	33.48	14.53	2.54	0.09	292.83
809	0.0208	0.19	0.93	11.07	28.85	34.34	39.29	45.45	39.11	28.87	13.53	2.41	0.09	244.13
810	0.2197	0.25	1.33	14.46	34.48	42.85	49.70	57.17	42.29	28.53	13.54	2.79	0.12	287.51
811	3.6146	0.27	1.44	15.60	38.26	48.93	57.54	68.37	53.12	33.33	14.86	2.99	0.13	334.84
812	4.5811	0.26	1.34	15.03	37.31	47.10	57.11	68.77	53.12	33.16	14.54	2.87	0.12	330.72
813	0.0763	0.23	1.17	13.72	36.66	47.13	66.37	80.88	64.78	40.57	16.07	2.78	0.10	370.45
814	4.3673	0.27	1.45	15.83	38.73	49.06	57.68	70.29	53.19	32.78	14.71	2.99	0.13	337.11
815	0.0444	0.26	1.34	15.60	42.54	56.91	87.79	108.69	85.50	50.25	18.16	3.05	0.11	470.20
816	0.6943	0.27	1.44	15.53	36.97	46.01	54.21	67.85	49.04	30.11	13.92	2.92	0.13	318.40
817	0.1234	0.27	1.40	15.55	39.40	50.76	68.26	84.89	64.12	38.48	15.70	2.98	0.12	381.92
818	2.1621	0.27	1.45	15.56	38.15	48.57	57.28	70.17	55.27	33.98	15.02	2.99	0.13	338.84
819	0.1383	0.27	1.41	15.56	39.24	50.30	67.08	83.51	62.66	37.70	15.57	2.98	0.12	376.39
820	0.1090	0.27	1.40	15.50	39.15	49.89	66.60	82.75	61.62	37.21	15.49	2.96	0.12	372.96
821	7.7087	0.27	1.43	15.54	38.06	48.34	57.71	70.07	55.17	33.91	14.91	2.97	0.13	338.50
822	0.0462	0.26	1.35	15.57	41.79	55.14	82.95	102.88	79.84	47.17	17.58	3.04	0.11	447.68
823	2.7867	0.27	1.44	15.73	38.88	49.56	60.72	74.13	57.37	35.02	15.19	3.00	0.13	351.44
824	2.7875	0.28	1.45	15.71	38.45	48.71	57.51	70.29	53.76	33.12	14.81	3.00	0.13	337.20
825	0.0888	0.27	1.42	15.46	38.28	48.57	61.37	76.38	57.22	34.78	14.95	2.96	0.13	351.77
826	7.6250	0.28	1.46	15.81	38.00	47.90	56.55	68.76	52.18	32.13	14.54	3.00	0.14	330.75
827	0.0354	0.27	1.40	15.30	39.19	51.13	67.82	84.18	67.82	40.86	16.43	3.01	0.12	387.52
828	0.0299	0.27	1.39	15.33	39.44	51.54	69.28	85.98	69.10	41.54	16.56	3.02	0.12	393.58

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
829	0.0974	0.27	1.42	15.47	38.60	49.47	63.37	78.87	60.54	36.67	15.46	2.99	0.13	363.27
830	2.6253	0.28	1.46	15.68	36.92	45.84	55.06	68.64	50.86	30.96	14.20	2.96	0.14	322.99
831	0.2743	0.28	1.46	15.61	37.23	46.41	54.07	67.63	48.50	29.92	13.98	2.96	0.14	318.19
832	0.1364	0.28	1.46	15.63	37.83	47.54	57.43	71.73	52.12	31.95	14.45	2.99	0.14	333.55
833	4.9042	0.28	1.44	15.66	37.61	47.23	56.12	68.71	52.21	32.03	14.43	2.97	0.14	328.81
834	0.0303	0.36	2.18	16.88	39.18	50.43	67.68	78.02	58.28	35.56	14.97	2.90	0.10	366.53
835	0.0645	0.35	2.12	16.84	40.94	54.32	77.56	89.63	67.70	40.78	15.54	2.86	0.10	408.73
836	2.1880	0.36	2.23	17.07	38.72	48.58	59.62	69.32	51.15	31.59	14.55	2.94	0.11	336.25
837	0.0337	0.34	2.10	16.85	41.38	55.45	81.14	93.53	71.10	42.66	15.77	2.86	0.09	423.26
838	0.0239	0.34	2.04	16.88	42.75	58.98	92.21	105.65	81.61	48.49	16.48	2.83	0.09	468.36
839	3.3264	0.37	2.25	17.24	38.75	48.80	58.71	66.73	49.52	31.16	14.56	2.98	0.11	331.17
840	1.0502	0.36	2.22	16.96	38.72	48.54	60.03	69.83	50.92	31.44	14.51	2.94	0.11	336.58
841	0.1102	2.20	16.87	39.21	49.70	62.80	73.60	53.65	33.00	14.64	2.94	0.11	0.36	349.08
842	0.1308	0.36	2.21	16.82	38.79	48.71	59.81	70.20	50.83	31.46	14.43	2.92	0.11	336.66
843	6.8981	0.37	2.25	17.11	38.00	47.90	57.33	64.72	48.73	30.81	14.49	2.97	0.11	324.80
844	0.0754	0.37	2.23	16.82	37.96	46.55	54.26	64.18	44.97	28.27	14.07	2.93	0.11	312.72
845	0.0213	0.37	2.23	16.80	38.04	46.65	54.38	64.15	44.92	28.27	14.05	2.93	0.11	312.90
846	0.0254	0.28	1.67	13.42	31.86	39.56	46.56	52.86	42.58	28.82	13.50	2.51	0.09	273.70
847	0.2893	0.36	2.17	16.50	37.72	48.77	59.43	54.83	42.33	30.26	14.29	2.92	0.11	309.71
848	2.7345	0.36	2.21	16.74	37.23	46.22	54.21	63.86	47.32	29.64	14.24	2.93	0.11	315.08
849	1.6469	0.36	2.18	16.52	36.37	45.28	53.38	60.72	45.13	29.11	14.08	2.91	0.11	306.14
850	0.2326	0.37	2.23	16.85	38.24	48.15	57.44	59.95	43.67	29.25	14.21	2.95	0.11	313.41
851	0.2326	0.37	2.23	16.85	38.24	48.14	57.44	59.96	43.67	29.25	14.21	2.95	0.11	313.41
852	5.4305	0.36	2.17	16.75	38.06	48.27	58.73	67.27	50.45	31.36	14.40	2.91	0.11	330.84
853	5.3264	0.37	2.24	17.03	37.94	47.27	55.05	65.53	49.35	30.42	14.46	2.97	0.11	322.76
854	0.0267	0.36	2.20	16.81	38.73	48.42	59.84	70.10	50.20	31.20	14.41	2.92	0.11	335.32
855	0.1517	0.37	2.24	16.88	38.43	47.33	55.96	66.05	46.48	29.14	14.25	2.96	0.11	320.20
856	0.0258	0.36	2.16	16.84	40.10	52.11	70.56	81.95	61.05	37.12	15.12	2.91	0.11	380.40
857	0.9950	0.38	2.26	16.97	37.04	45.60	53.30	64.35	46.01	28.60	14.10	2.98	0.12	311.70
858	0.0328	0.36	2.20	16.86	39.24	49.74	63.22	74.00	53.89	33.16	14.67	2.93	0.11	350.38
859	3.4439	0.38	2.26	17.12	37.73	46.72	54.24	64.69	47.53	29.52	14.33	3.00	0.12	317.64
860	0.0367	0.36	2.17	16.85	39.58	50.61	66.52	77.50	56.68	34.75	14.86	2.92	0.11	362.91
861	3.0772	0.37	2.23	16.74	36.04	44.33	51.52	62.78	46.31	28.69	14.05	2.95	0.12	306.12

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
862	0.0597	0.37	2.25	16.90	38.47	47.63	56.15	66.39	47.30	29.49	14.27	2.97	0.12	322.31
863	0.2171	0.37	2.24	16.88	38.57	47.95	57.25	67.56	48.36	30.07	14.32	2.97	0.12	326.66
864	0.1687	0.37	2.24	16.92	38.43	47.48	55.55	65.76	46.76	29.19	14.25	2.98	0.12	320.06
865	0.0255	0.37	2.24	16.83	38.29	47.42	55.73	65.74	46.95	29.32	14.20	2.96	0.12	320.15
866	0.0995	0.37	2.24	16.90	38.54	47.84	56.79	67.07	47.93	29.84	14.31	2.97	0.12	324.93
867	7.0547	0.37	2.22	16.91	37.39	46.59	54.76	65.34	49.45	30.48	14.41	2.96	0.12	320.99
868	0.0592	0.37	2.25	16.90	38.47	47.65	56.21	66.45	47.36	29.52	14.27	2.97	0.12	322.54
869	0.2172	0.37	2.24	16.88	38.58	47.97	57.30	67.62	48.41	30.10	14.33	2.97	0.12	326.88
870	0.1687	0.37	2.24	16.92	38.43	47.49	55.57	65.79	46.78	29.21	14.25	2.98	0.12	320.16
871	0.0997	0.37	2.24	16.90	38.54	47.85	56.83	67.12	47.97	29.86	14.31	2.97	0.12	325.08
872	7.1256	0.37	2.22	16.91	37.41	46.62	54.77	65.35	49.51	30.51	14.42	2.96	0.12	321.16
873	25.8389	0.37	2.20	16.95	38.52	48.72	59.28	68.70	51.97	32.16	14.68	2.97	0.12	336.66
874	0.1140	0.38	2.25	17.02	38.51	48.01	57.86	69.35	51.11	31.03	14.60	3.00	0.12	333.23
875	0.0854	0.38	2.26	17.01	38.73	48.16	57.04	68.07	50.11	30.41	14.49	3.00	0.12	329.76
876	0.4446	0.38	2.27	17.14	37.80	47.21	55.51	67.05	50.02	30.31	14.47	3.03	0.12	325.31
877	5.2953	0.38	2.25	17.15	38.40	48.38	57.82	66.90	50.91	31.48	14.71	3.02	0.12	331.51
878	4.0376	0.39	2.28	17.28	38.45	48.31	57.17	66.79	49.33	30.69	14.64	3.06	0.12	328.51
879	0.0701	0.38	2.24	16.81	38.19	47.20	54.73	65.05	47.82	29.05	14.13	2.97	0.12	318.68
880	6.7158	0.38	2.25	17.09	37.94	47.42	55.95	65.91	48.64	30.28	14.48	3.02	0.12	323.50
881	0.0457	0.38	2.24	16.80	38.03	46.61	53.92	64.10	46.36	28.22	14.04	2.96	0.12	313.77
882	0.2844	0.36	2.16	16.33	37.17	45.67	52.92	62.26	45.90	28.39	13.98	2.90	0.12	308.18
883	0.2902	0.37	2.16	16.34	37.19	45.69	52.93	62.23	45.89	28.40	13.99	2.90	0.12	308.21
884	9.0634	0.38	2.23	17.03	38.26	48.25	58.95	67.78	51.62	31.96	14.69	3.00	0.12	334.27
885	0.1466	0.35	2.05	15.67	35.86	44.23	51.45	60.94	46.50	29.06	13.94	2.82	0.11	302.99
886	8.7433	0.38	2.24	17.06	38.33	48.54	59.71	66.67	50.03	31.62	14.61	3.01	0.12	332.31
887	1.2169	0.38	2.21	16.89	36.79	45.79	57.77	68.34	52.05	31.65	14.53	2.96	0.12	329.47
888	11.4533	0.37	2.16	16.57	37.36	46.87	56.03	63.22	48.27	30.79	14.45	2.95	0.12	319.16
889	0.8397	0.37	2.17	16.54	37.07	46.57	52.57	63.50	54.34	32.82	15.06	2.97	0.12	324.10
890	18.5665	0.38	2.23	17.04	38.58	48.58	57.66	66.64	50.68	31.49	14.68	3.03	0.13	331.11
891	0.0890	0.25	1.36	11.51	28.32	35.30	41.41	46.99	42.00	29.25	13.28	2.27	0.08	252.02
892	0.3537	0.36	2.10	16.00	36.63	45.86	53.24	60.30	47.92	30.30	14.33	2.89	0.12	310.05
893	0.0680	0.24	1.33	11.32	27.98	34.88	41.10	46.50	41.46	29.08	13.19	2.24	0.08	249.41
894	0.0772	0.26	1.45	12.30	30.69	39.31	50.70	58.13	49.52	33.32	14.05	2.37	0.08	292.18

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
895	7.0878	0.35	2.05	16.03	37.26	47.37	60.69	69.52	54.95	34.28	14.90	2.87	0.11	340.37
896	26.4622	0.70	2.89	18.38	38.02	47.68	56.38	67.20	56.90	34.70	14.83	3.26	0.18	341.13
897	31.2861	0.69	2.89	18.56	39.89	51.20	61.40	71.60	60.65	37.44	15.68	3.34	0.17	363.51
898	16.0349	0.98	3.18	19.06	41.33	53.03	74.61	84.45	69.18	44.81	17.76	3.58	0.46	412.42
899	6.2358	0.68	2.87	18.75	40.03	50.95	64.92	74.10	62.57	39.58	16.30	3.32	0.16	374.22

Table AG.9: Total monthly precipitation (mm over watershed) modelled for each subwatershed along the Lake Huron Shoreline.

Map Index	Area (km^2)	Precipitation (mm)												
		January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
601	1.4923	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
602	0.2196	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
603	0.3655	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
604	0.7529	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
605	3.2117	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
606	0.1626	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
607	14.1530	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
608	27.4480	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
609	10.9853	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
610	14.7211	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
611	26.6505	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
612	11.2644	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
613	0.2886	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
614	1.3068	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
615	0.1323	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
616	6.6770	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
617	6.6685	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
618	23.0036	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
619	3.0191	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
620	8.1604	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
621	0.3152	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
622	1.1440	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
623	1.8901	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
624	12.2594	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
625	15.6152	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
626	0.7993	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
627	0.1828	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
628	7.4942	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
629	0.1004	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
630	3.7583	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
631	0.0635	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
632	13.3844	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
633	0.5487	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
634	0.1489	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
635	5.9121	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
636	12.5299	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
637	0.0577	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
638	5.3140	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
639	14.0470	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
640	0.1244	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
641	1.0287	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
642	0.0691	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
643	5.2502	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
644	0.6674	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
645	4.0982	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
646	0.1058	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
647	2.9632	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
648	1.4051	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
649	0.0674	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
650	6.3381	101.58	77.405	75.075	82.95	103.01	92.94	80.215	91.445	119.945	106.905	124.325	115.825	1171.62
651	4.8242	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
652	16.2879	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
653	3.0394	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
654	11.9029	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
655	0.0840	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
656	5.1345	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
657	0.0735	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
658	0.0458	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
659	0.0658	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
660	8.5454	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
661	0.0307	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
662	8.8341	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
663	0.5166	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
664	0.0522	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
665	6.5997	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
666	0.0636	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
667	0.0706	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
668	1.8870	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
669	7.5329	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
670	5.7881	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
671	0.3355	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
672	0.9395	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
673	7.9997	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
674	0.0497	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
675	0.1866	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
676	5.5909	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
677	0.0398	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
678	0.1595	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
679	0.6001	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
701	0.1254	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
702	0.0799	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
703	0.2377	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
704	0.2098	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
705	1.3627	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
706	0.2602	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
707	0.3074	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
708	1.8884	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
709	0.1895	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
710	1.1343	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
711	0.0620	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
712	2.1799	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
713	2.0642	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
714	0.9506	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
715	1.6470	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
716	0.0265	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
717	0.0813	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
718	0.0364	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
719	3.9405	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
720	2.9784	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
721	0.1524	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
722	3.9243	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
723	0.0279	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
724	0.2535	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
725	0.07	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
726	1.39	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
727	3.28	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
728	0.35	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
729	1.99	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
730	13.89	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
731	0.14	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
732	0.04	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
733	0.95	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
734	1.17	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
735	0.10	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
736	9.86	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
737	0.14	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
738	2.78	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
739	4.56	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
740	0.04	74.46	66.85	79.785	75.22	89.03	81.98	69.56	82.115	108.47	95.7	109.455	106.1	1038.725
741	1.38	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
742	3.02	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
743	0.34	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
744	0.07	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
745	0.06	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
746	2.7704	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
747	1.2664	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
748	4.2834	92.055	77.65	85.4	92	100.935	86.93	76.17	91.02	117.99	101.045	125.425	113.19	1159.81
749	7.1426	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
750	4.4702	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
751	0.1943	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
752	3.9813	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
753	1.8866	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
754	2.1167	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
755	0.1806	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
756	0.9717	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
757	1.6273	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
758	0.1636	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
759	0.6767	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
760	1.6425	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
761	5.4201	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
762	0.0473	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
763	0.9776	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
764	0.0327	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
801	0.1899	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
802	0.1652	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
803	0.0207	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
804	0.1544	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
805	0.4573	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
806	0.0286	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
807	4.6905	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
808	0.0318	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
809	0.0208	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
810	0.2197	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
811	3.6146	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
812	4.5811	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
813	0.0763	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
814	4.3673	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
815	0.0444	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
816	0.6943	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
817	0.1234	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
818	2.1621	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
819	0.1383	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
820	0.1090	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
821	7.7087	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
822	0.0462	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
823	2.7867	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
824	2.7875	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
825	0.0888	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
826	7.6250	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
827	0.0354	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
828	0.0299	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
829	0.0974	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
830	2.6253	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
831	0.2743	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
832	0.1364	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
833	4.9042	82.195	54.125	56.46	74.695	87.04	76.01	88.78	70.62	120.365	97.755	103.34	72.43	983.815
834	0.0303	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
835	0.0645	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
836	2.1880	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
837	0.0337	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
838	0.0239	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
839	3.3264	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
840	1.0502	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
841	0.1102	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	101.715	81.695	63.1	963.83
842	0.1308	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
843	6.8981	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
844	0.0754	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
845	0.0213	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
846	0.0254	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
847	0.2893	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
848	2.7345	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
849	1.6469	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
850	0.2326	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
851	0.2326	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
852	5.4305	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
853	5.3264	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
854	0.0267	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
855	0.1517	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
856	0.0258	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
857	0.9950	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
858	0.0328	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
859	3.4439	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
860	0.0367	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
861	3.0772	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
862	0.0597	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
863	0.2171	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
864	0.1687	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78

Map Index	Area (km2)	January	February	March	April	May	June	July	August	September	October	November	December	Yearly Total
865	0.0255	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
866	0.0995	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
867	7.0547	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
868	0.0592	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
869	0.2172	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
870	0.1687	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
871	0.0997	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
872	7.1256	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
873	25.8389	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
874	0.1140	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
875	0.0854	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
876	0.4446	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
877	5.2953	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
878	4.0376	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
879	0.0701	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
880	6.7158	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
881	0.0457	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
882	0.2844	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
883	0.2902	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
884	9.0634	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
885	0.1466	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
886	8.7433	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
887	1.2169	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
888	11.4533	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
889	0.8397	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
890	18.5665	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
891	0.0890	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
892	0.3537	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
893	0.0680	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
894	0.0772	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
895	7.0878	63.1	55.38	54.055	79.455	86.625	75.575	89.22	74.335	111	91.675	104.665	81.695	966.78
896	26.4622	61.275	52.085	58.55	78.76	81.62	79.755	85.805	81.835	103.185	92.69	93.115	80.635	949.31
897	31.2861	61.275	52.085	58.55	78.76	81.62	79.755	85.805	81.835	103.185	92.69	93.115	80.635	949.31
898	16.0349	61.275	52.085	58.55	78.76	81.62	79.755	85.805	81.835	103.185	92.69	93.115	80.635	949.31
899	6.2358	61.275	52.085	58.55	78.76	81.62	79.755	85.805	81.835	103.185	92.69	93.115	80.635	949.31