

# Water Rights Licensing On The Assiniboine River

March 23, 2011



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Water Use Licensing Section  
Manitoba Water Stewardship



Some good descriptions of what  
the Water Use Licensing Section does  
can be found in some recent  
AESB (PFRA) reports



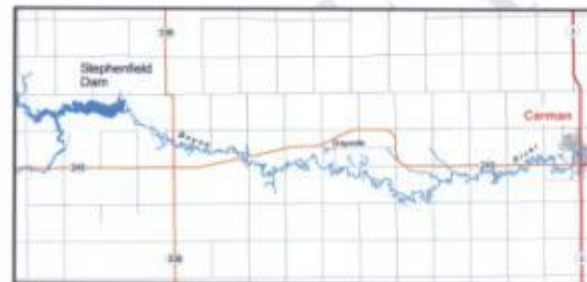
Agriculture and  
Agri-Food Canada

Protein Farm Rehabilitation  
Administration

Agriculture et  
Agroalimentaire Canada

Administration du rétablissement  
agricole des Prairies

## TOWN OF CARMAN WATER SUPPLY STUDY



PFRA, Manitoba Region

November, 2007

Canada 



Agriculture and  
Agri-Food Canada

Prairie Farm Rehabilitation  
Administration

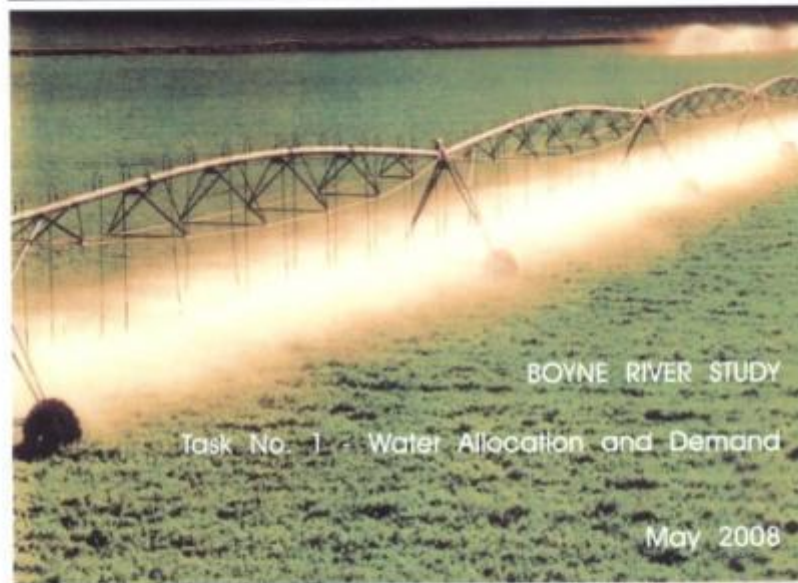
Agriculture et  
Agroalimentaire Canada

Administration du rétablissement  
agricole des Prairies

**Manitoba**



Agriculture, Food  
and Rural Initiatives



BOYNE RIVER STUDY

Task No. 1 - Water Allocation and Demand

May 2008



Prepared by:

**KGS  
GROUP**



## CENTRAL PLAINS INC. WATER STUDY

FINAL REPORT

MARCH 2008  
WE 07 098 00 WE

608 - 5 DONALD STREET  
WINNIPEG, MB R3L 2T4  
Phone: (204) 477-6650 - Fax: (204) 474-2864

[www.genivar.com](http://www.genivar.com)



Partial funding for this project was made possible by contributions from the Province of Manitoba and Canada through the Canada-Manitoba Water Supply Expansion Program



Some NOT So Good  
Descriptions of  
The Water Supply  
Situation in The Basin

Report on Public Hearings

Simplot Canada Ltd.

Potato Processing Plant, Portage la Prairie, Manitoba

City of Portage la Prairie  
Water Pollution Control Facility Alterations

February, 2002

Manitoba Clean Environment Commission  
305 - 155 Carlton Street  
Winnipeg, Manitoba R3C 3H8

[www.cecmanitoba.ca](http://www.cecmanitoba.ca)

**Report on Public Hearings**

**City of Brandon Industrial Wastewater  
Treatment Facility Expansion and  
Maple Leaf Foods Inc. Hog Processing  
Plant Alteration**

**Presiding:**

**Terry Duguid, Chairperson  
Judy Head  
Wayne Sato  
John Whitaker**

October 2003

**Manitoba Clean Environment Commission  
305-155 Carlton Street  
Winnipeg, Manitoba R3C 3H8**

[www.cecmantoba.ca](http://www.cecmantoba.ca)

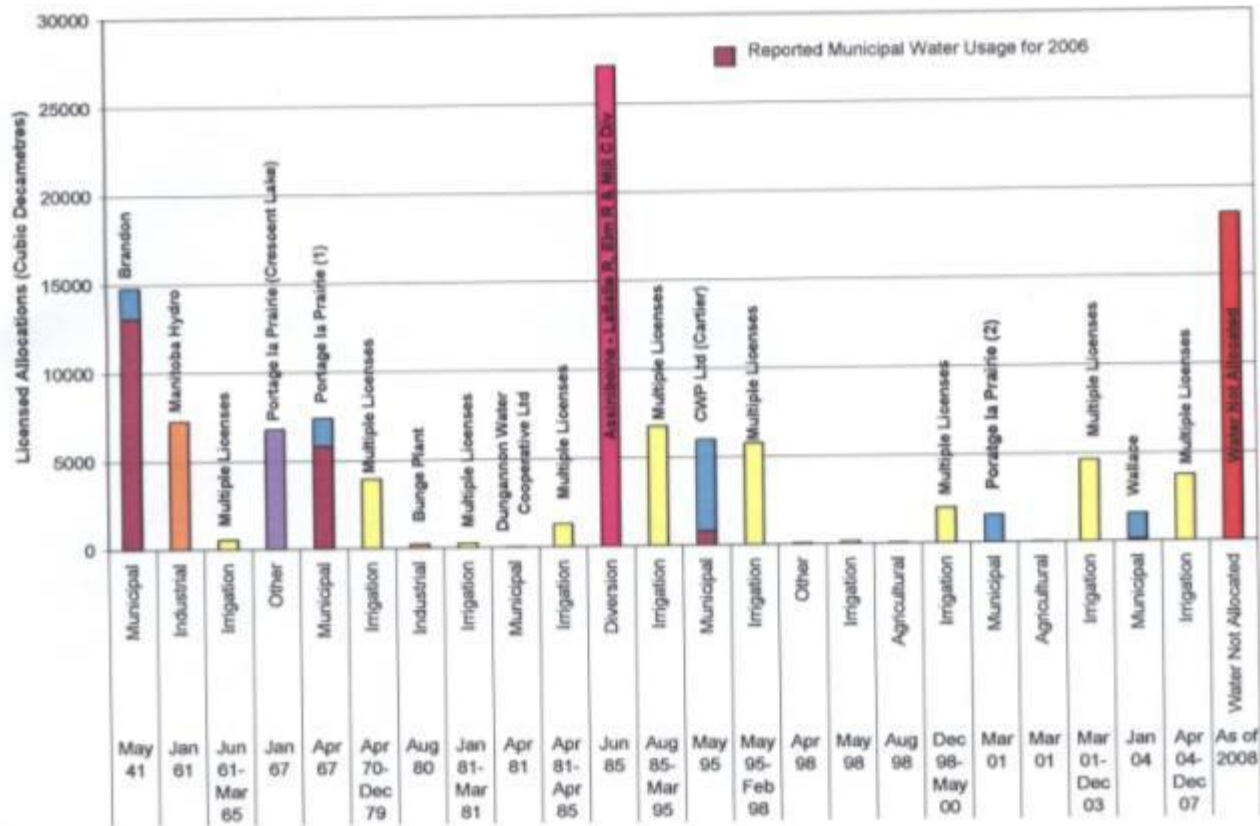


# FIT FIR

(First In Time, First In Right)

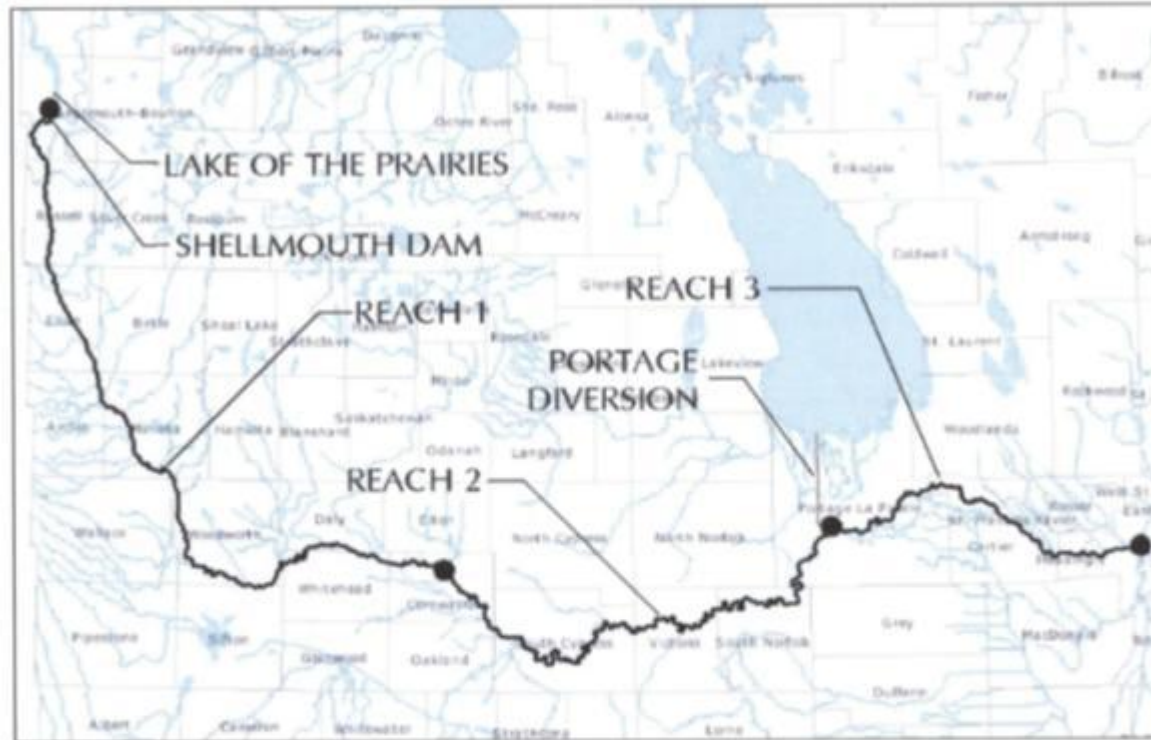
(Another way of saying: First Come, First Served)

Temporal Precedence Grouped by Purpose of Use for All Reaches



Note: Allocations on graphs are for illustrative purposes only  
(Manitoba Water Stewardship, 2008)

Figure 7: Order of precedence of Assiniboine River water rights licenses

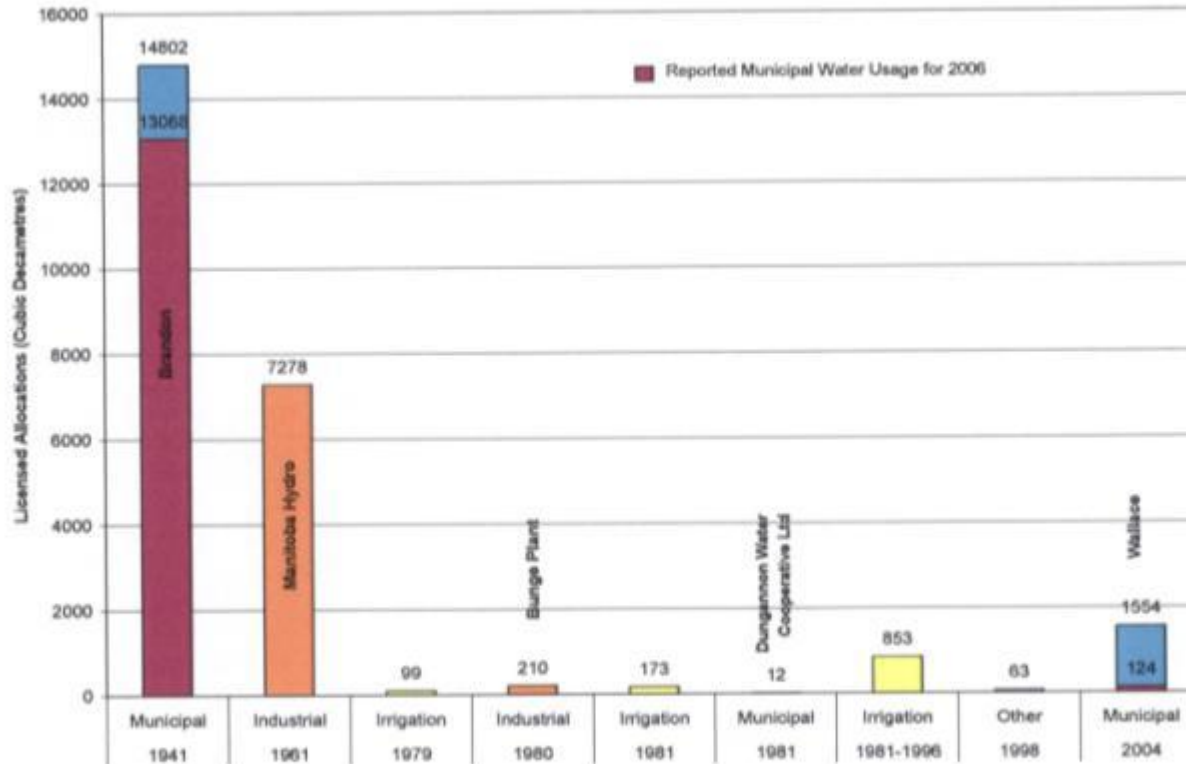


**Figure 6: Reaches and water resource structures of the Assiniboine River**

The Water Rights Act regulates all water rights licenses in Manitoba for all water sources. Concerns over the precedence of water users during low flows on the Assiniboine River were raised during the course of this project. The Water Rights Act states in Section 8(1):

*Licences have precedence in relation to one another according to the date of submission of the application for each licence.*

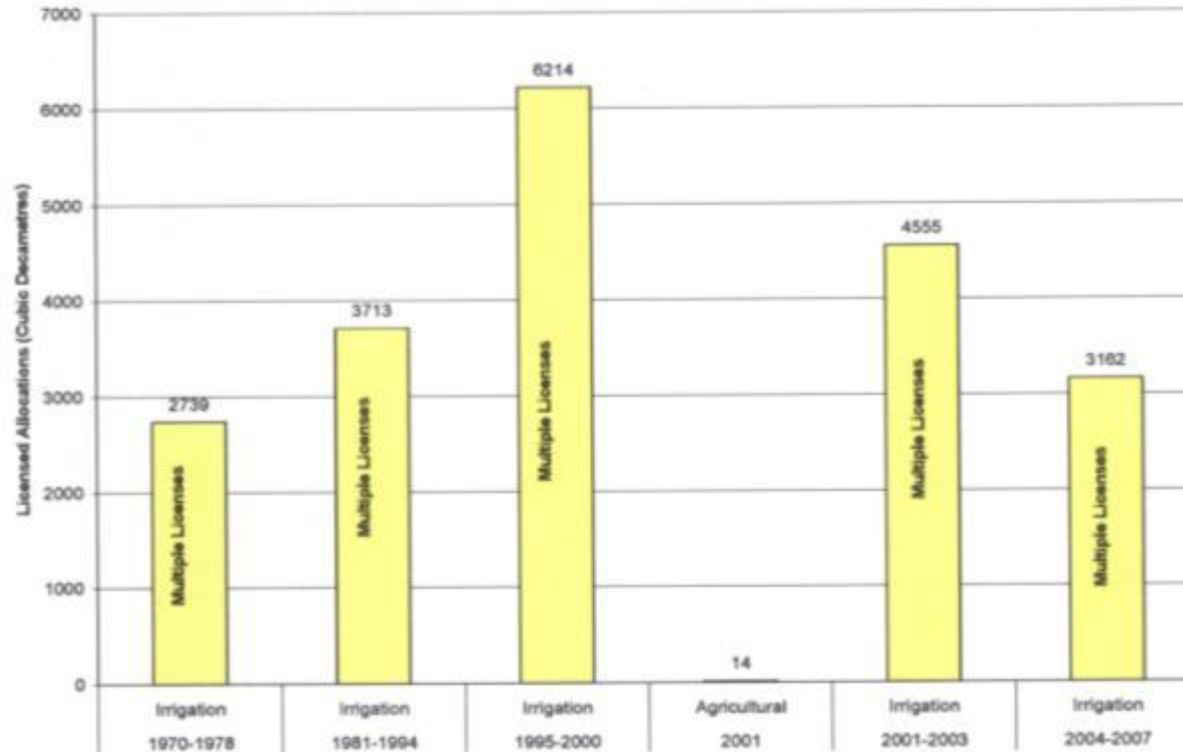
Temporal Precedence Grouped by Purpose of Use for Reach 1



Note: Allocations on graphs are for illustrative purposes only  
(Manitoba Water Stewardship, 2008)

Figure 8: Order of precedence of Reach 1 water rights licenses

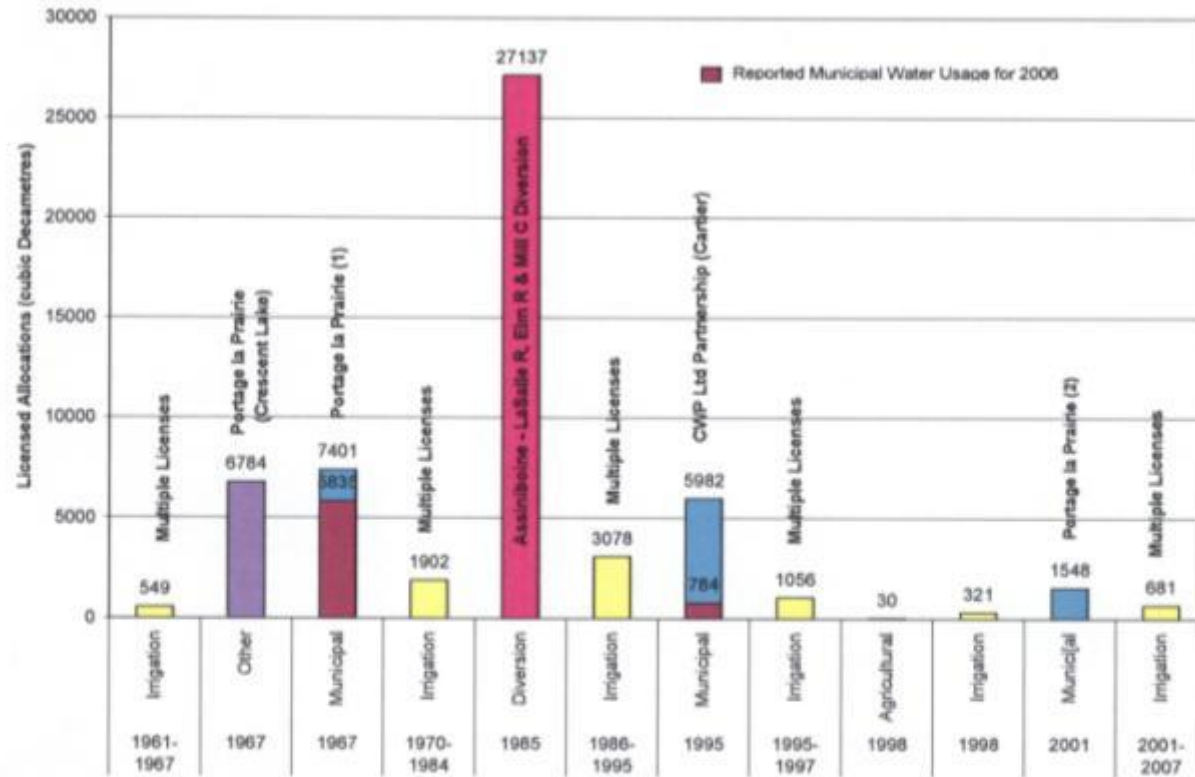
Temporal Precedence Grouped by Purpose of Use for Reach 2



Note: Allocations on graphs are for illustrative purposes only  
(Manitoba Water Stewardship, 2008)

Figure 9: Order of precedence of Reach 2 water rights licenses

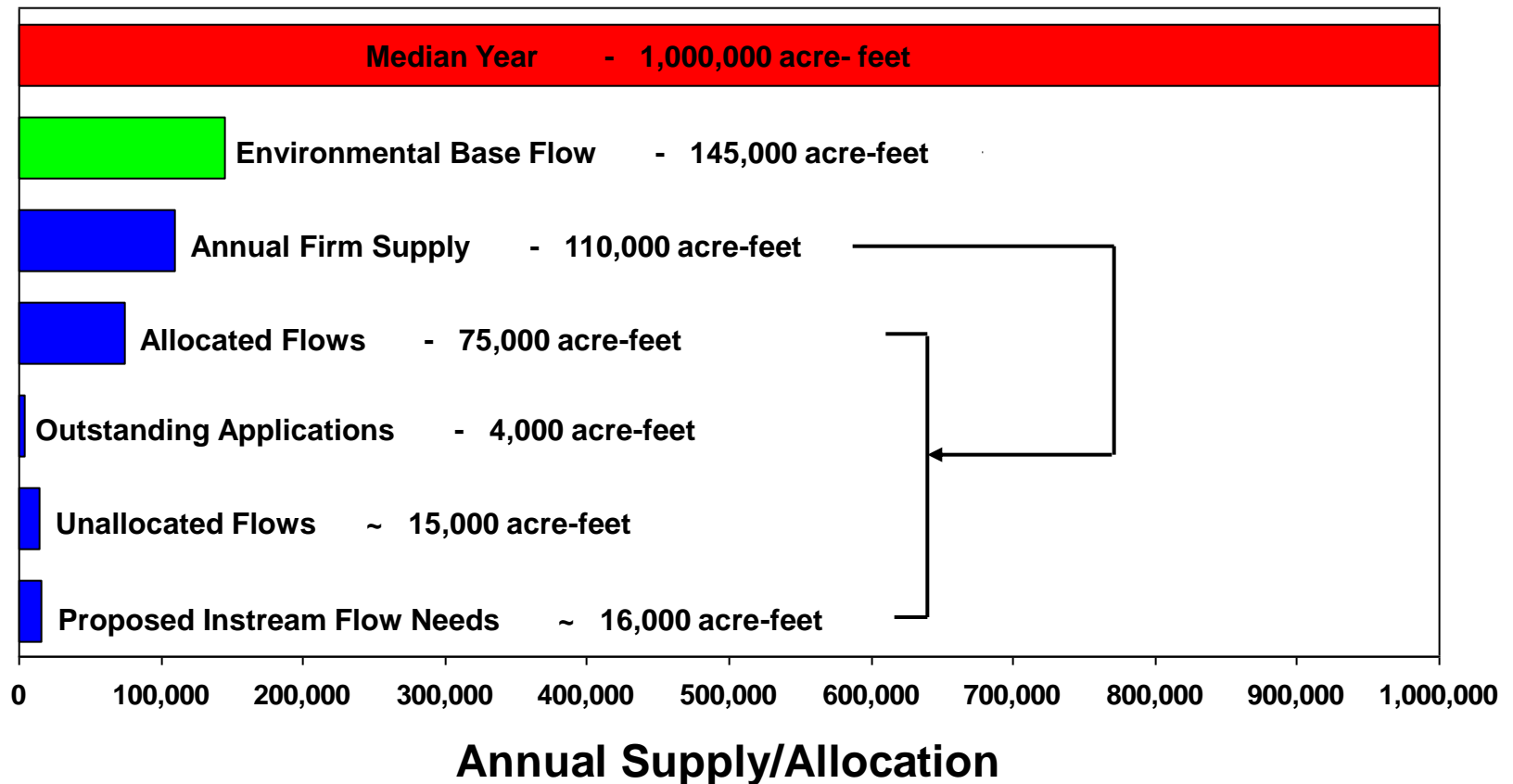
Temporal Precedence Grouped by Purpose of Use for Reach 3



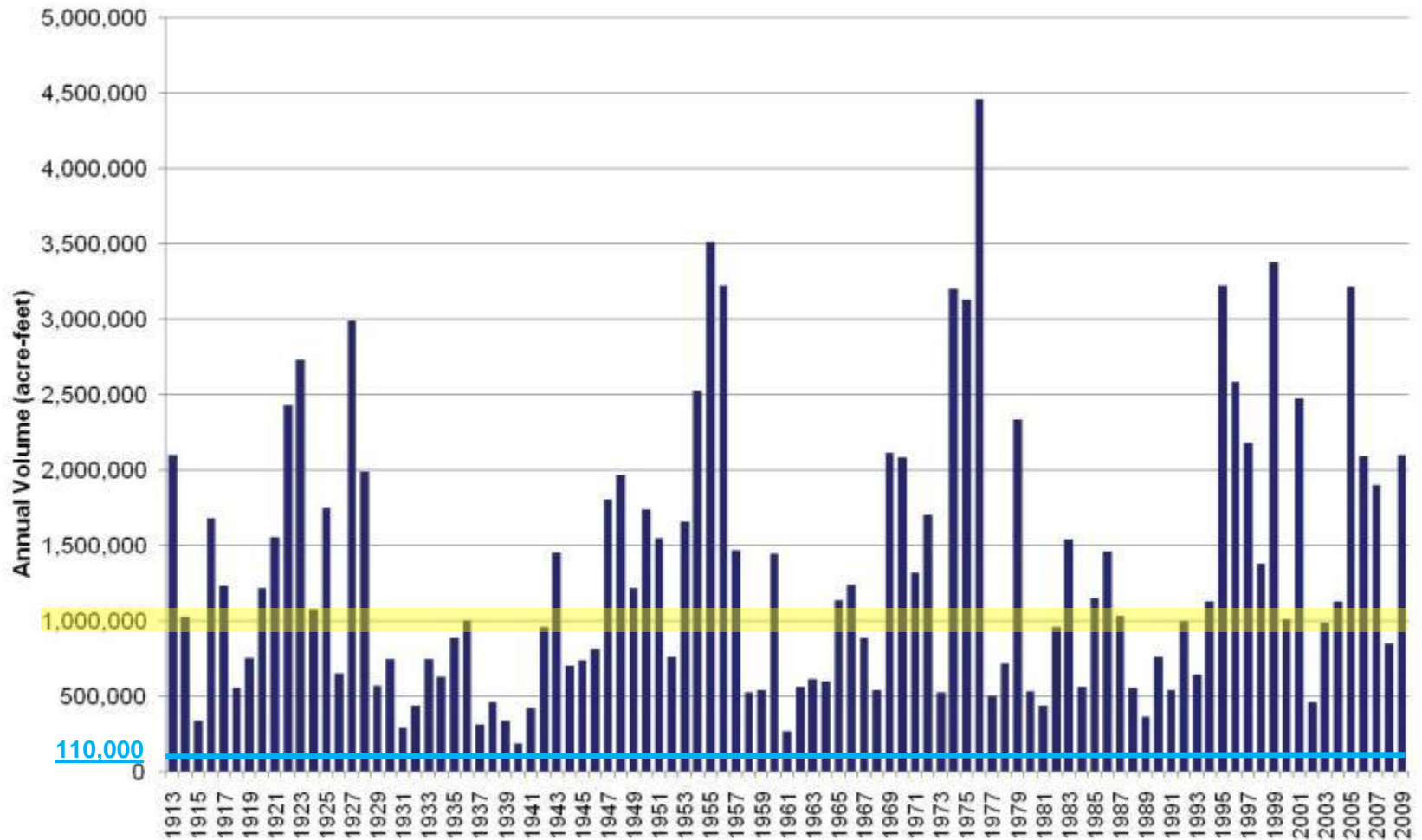
Note: Allocations on graphs are for illustrative purposes only  
(Manitoba Water Stewardship, 2008)

Figure 10: Order of precedence of Reach 3 water rights licenses

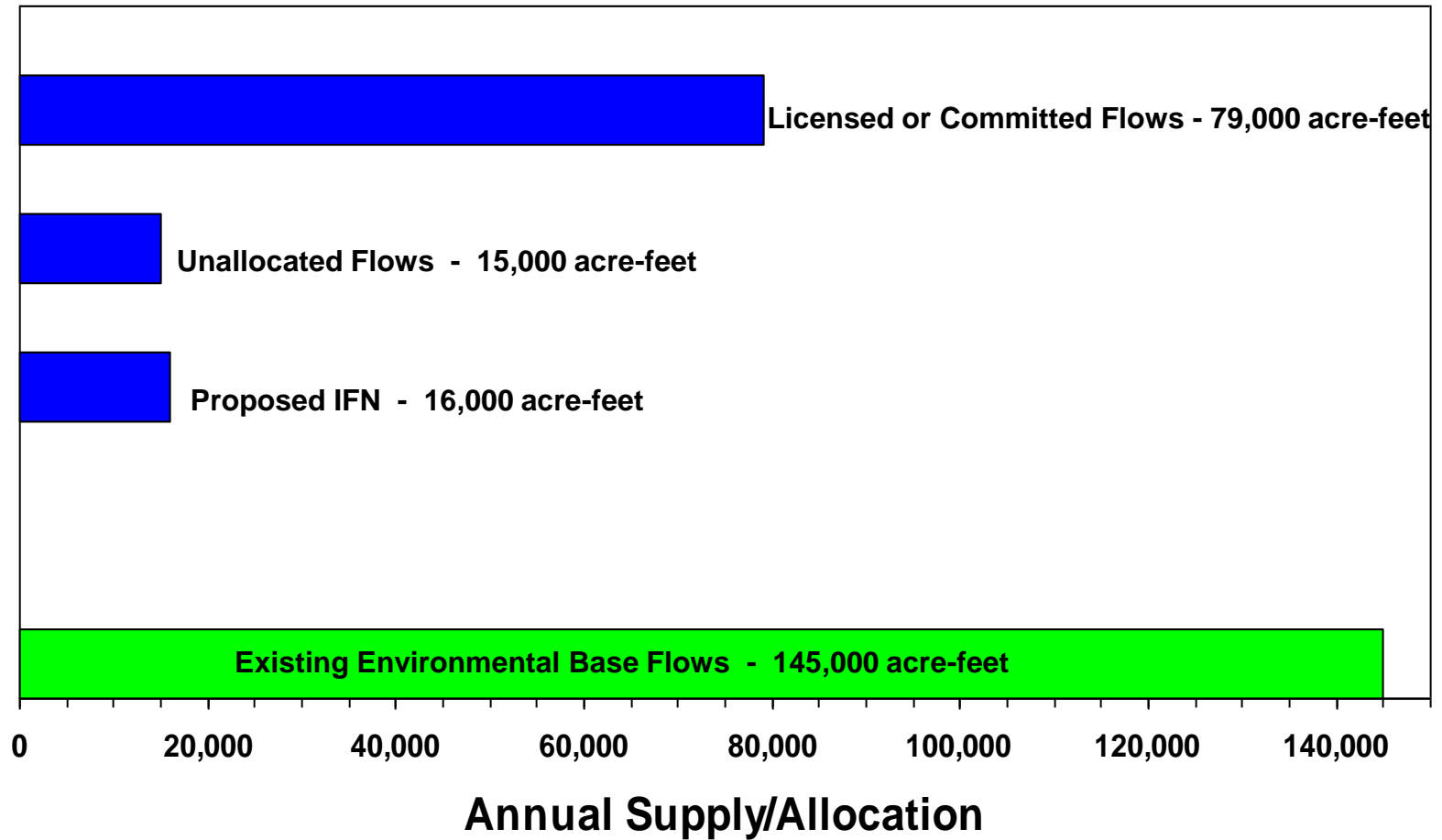
# Assiniboine River Water Supply and Demands (circa 2010)



Assiniboine River at Headingley plus Portage Diversion Annual Volumes





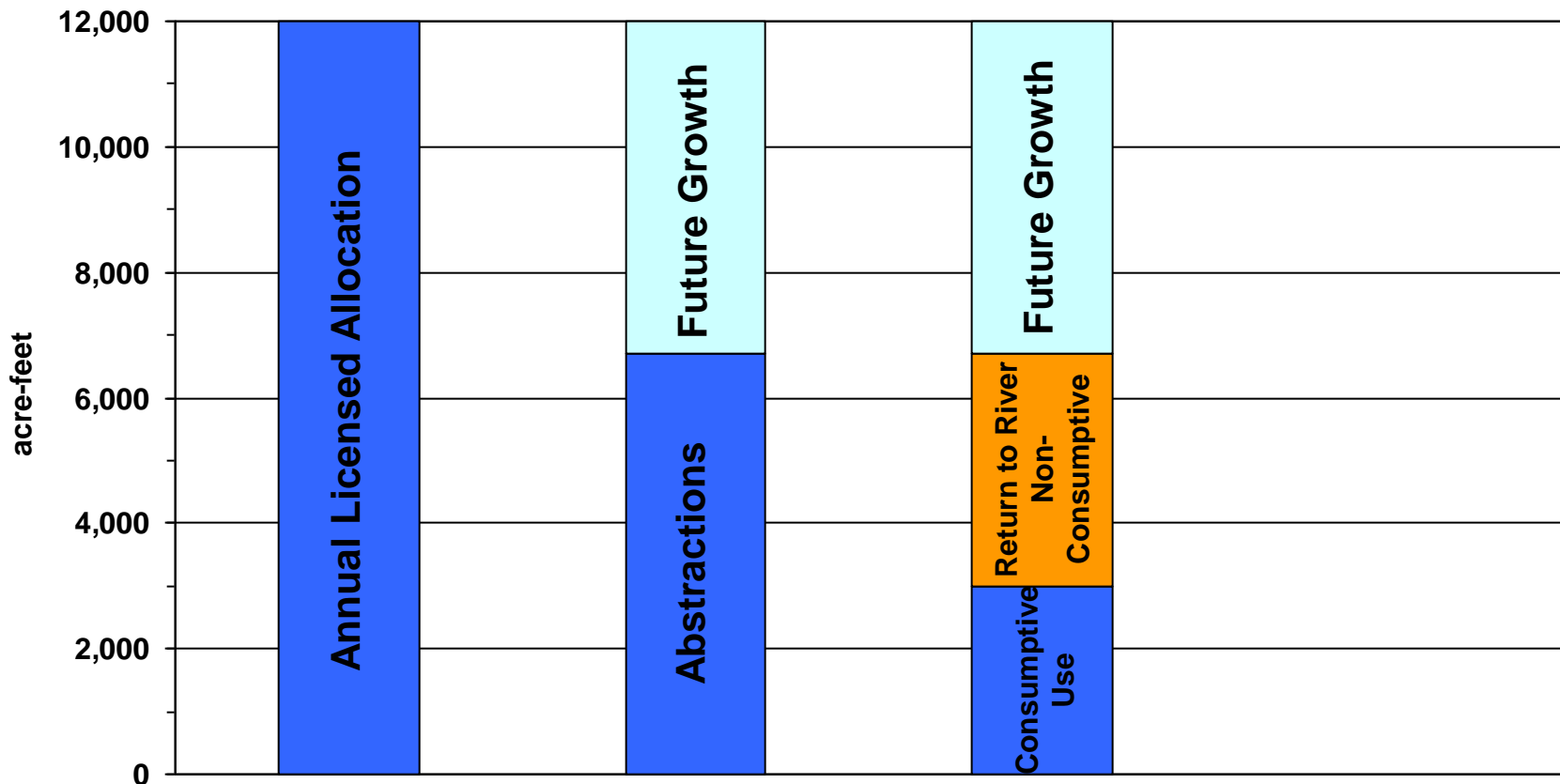


Some Comments

About

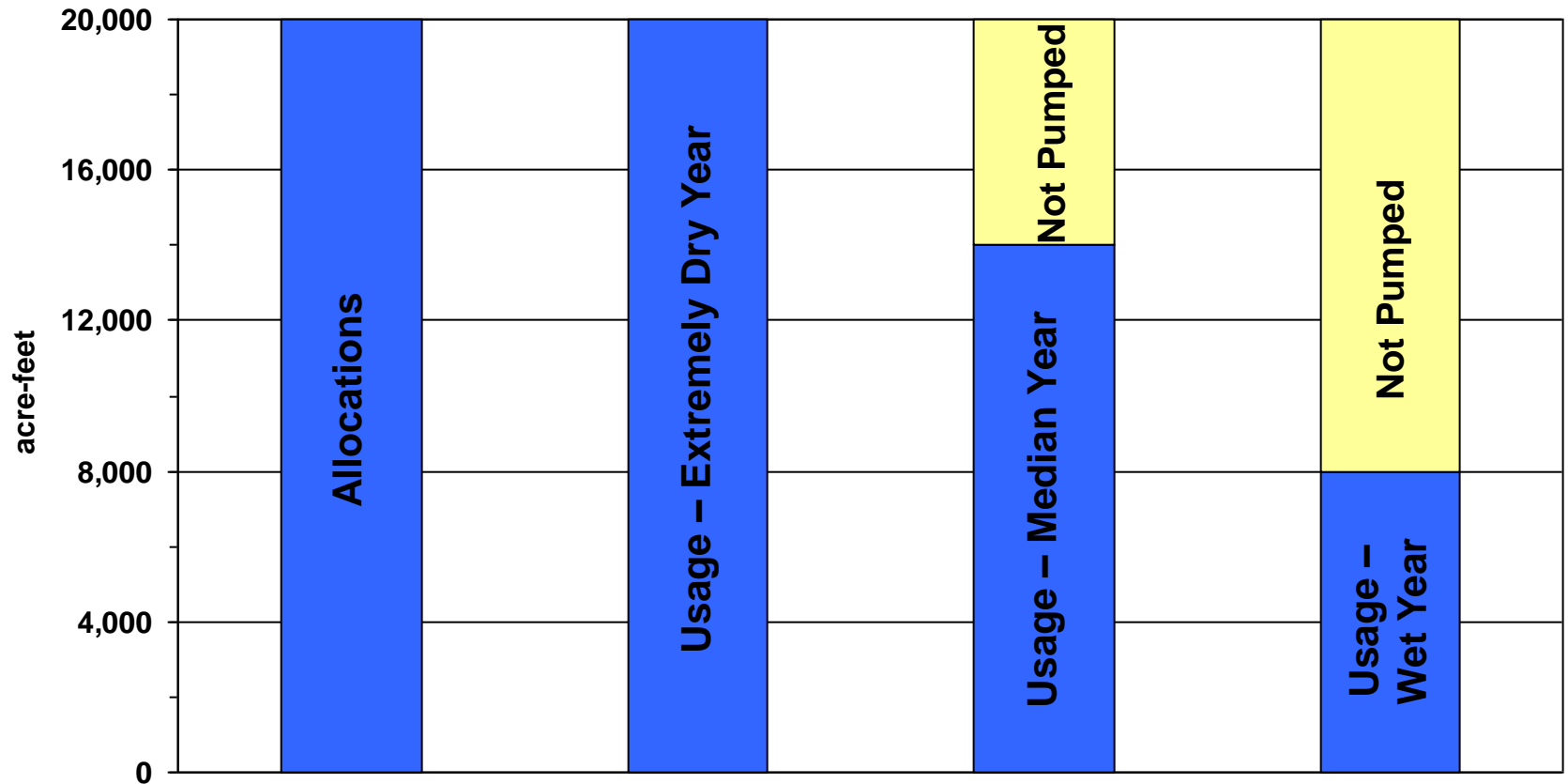
Consumptive Use

# Brandon Allocations and Usage



# Irrigation Allocations and Usage

(Note – All systems are pressurized)



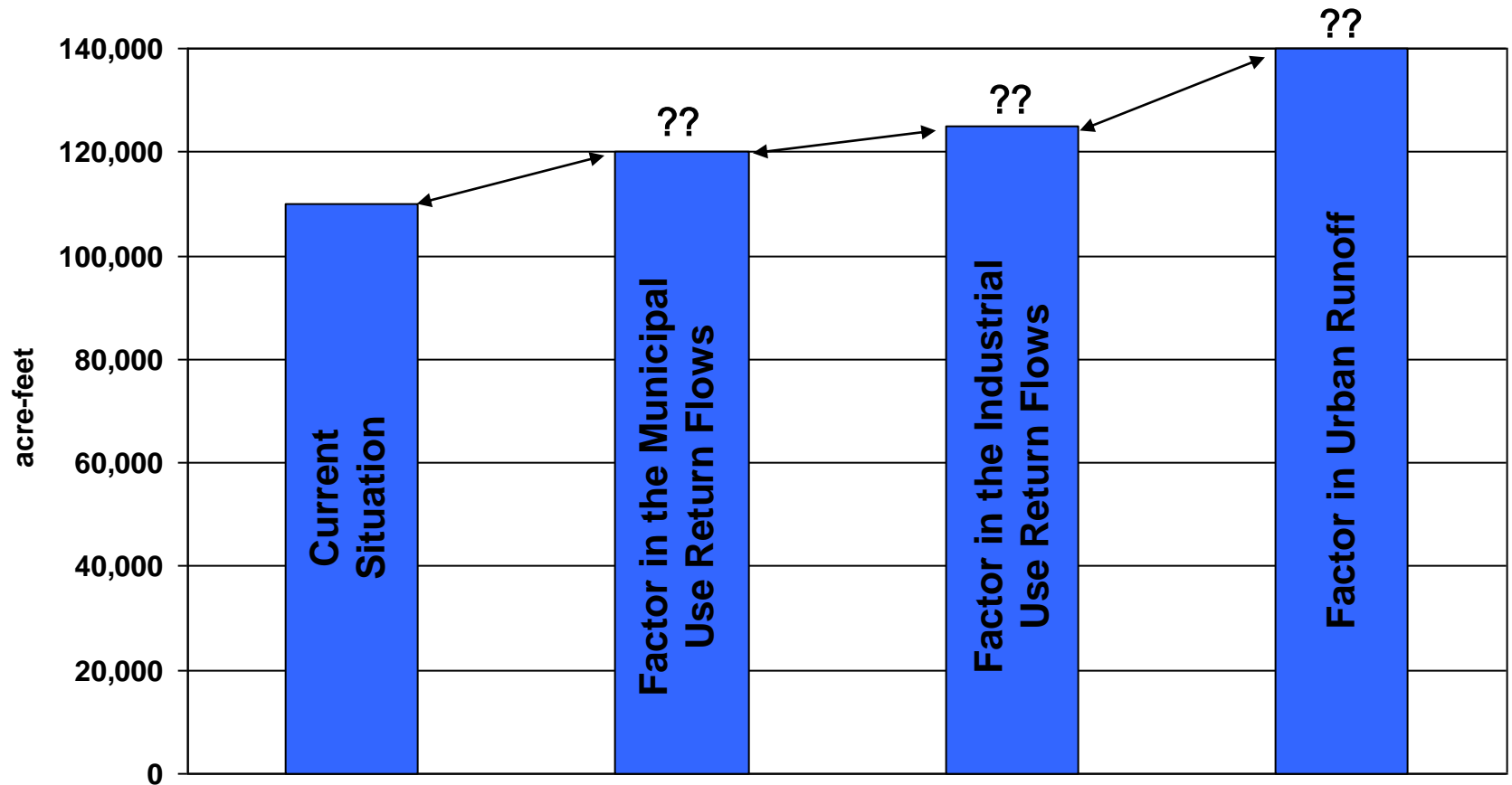
When we have no more  
water to allocate,  
What Might We Do?

## Two Options:

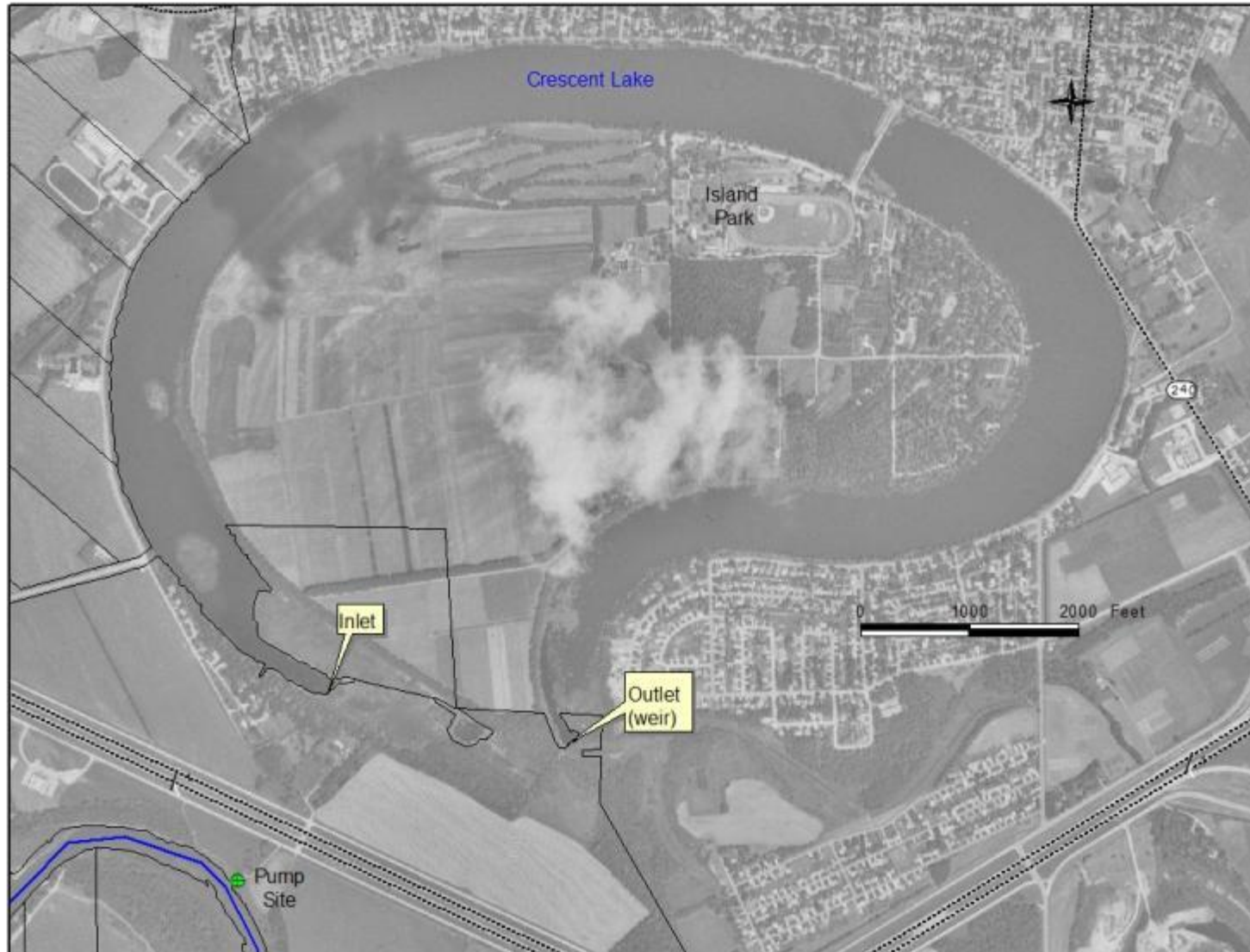
- Factor in Some or All of the Return Flows
- New (additional) Users Can Live With Higher Risk

# Option #1

Factor In The Return Flows



# Crescent Lake Overview





# Outlet Weir



# Monitoring “Well”

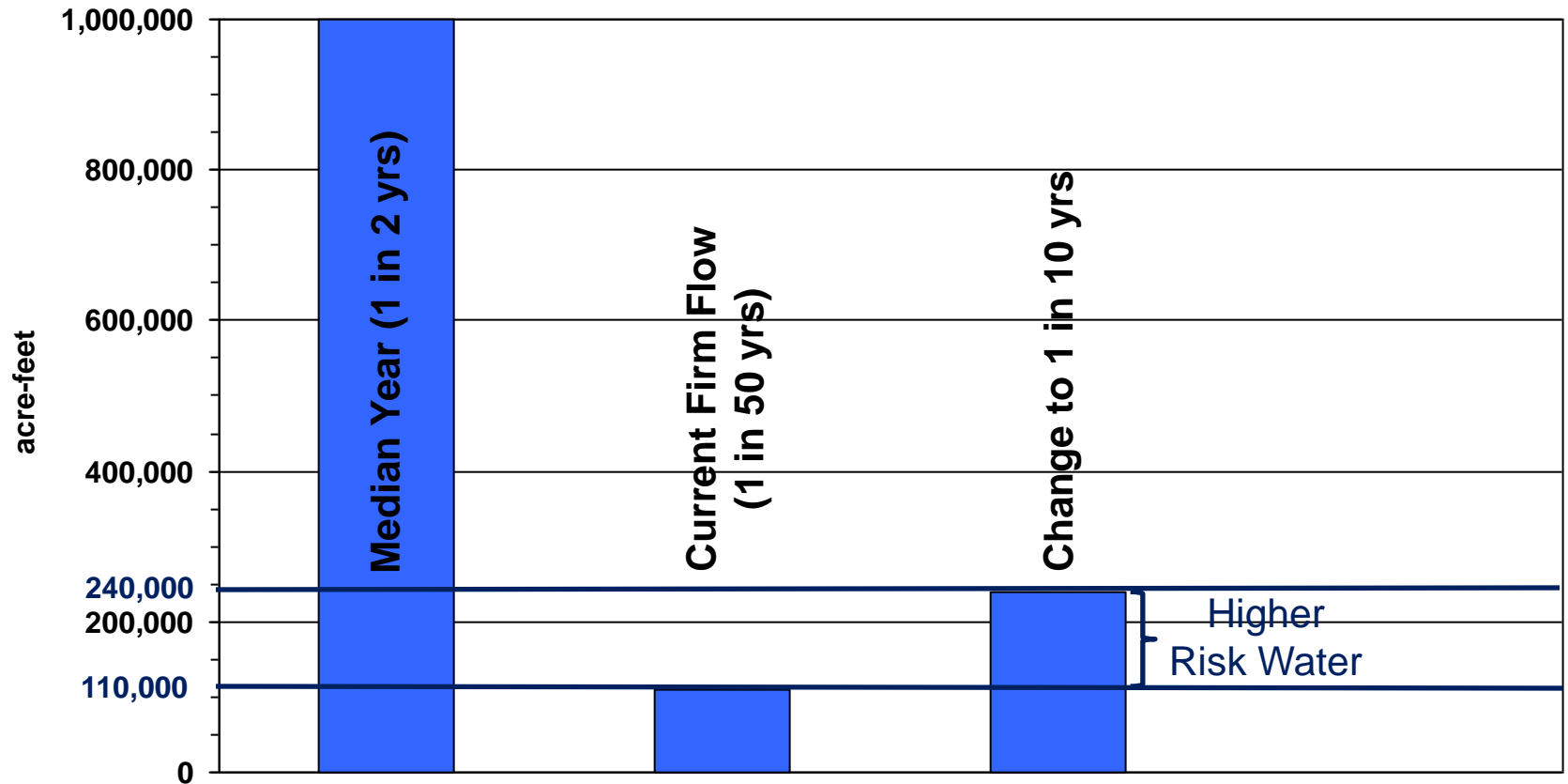
West Side



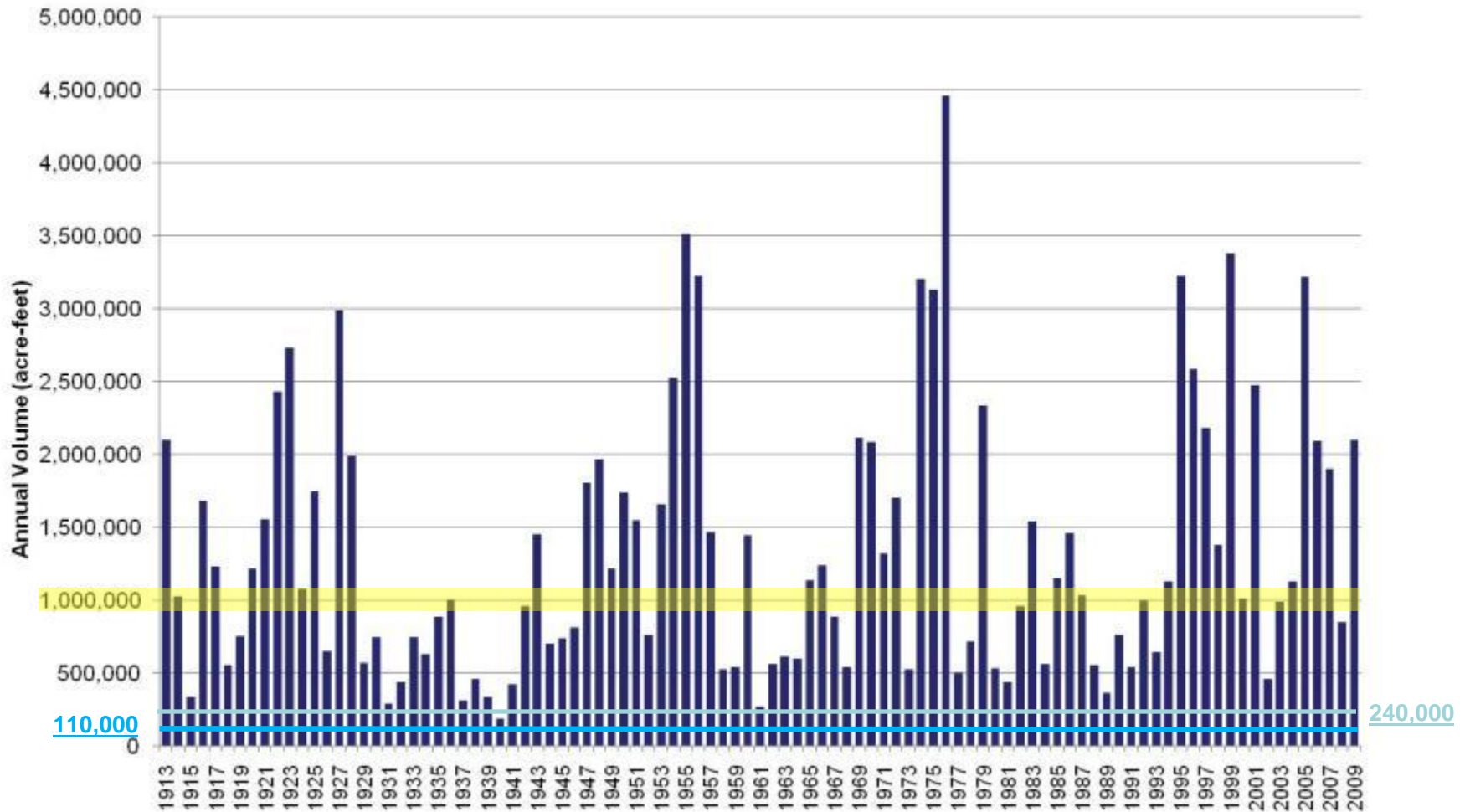
East Side

# Option #2

Live With Greater Risk

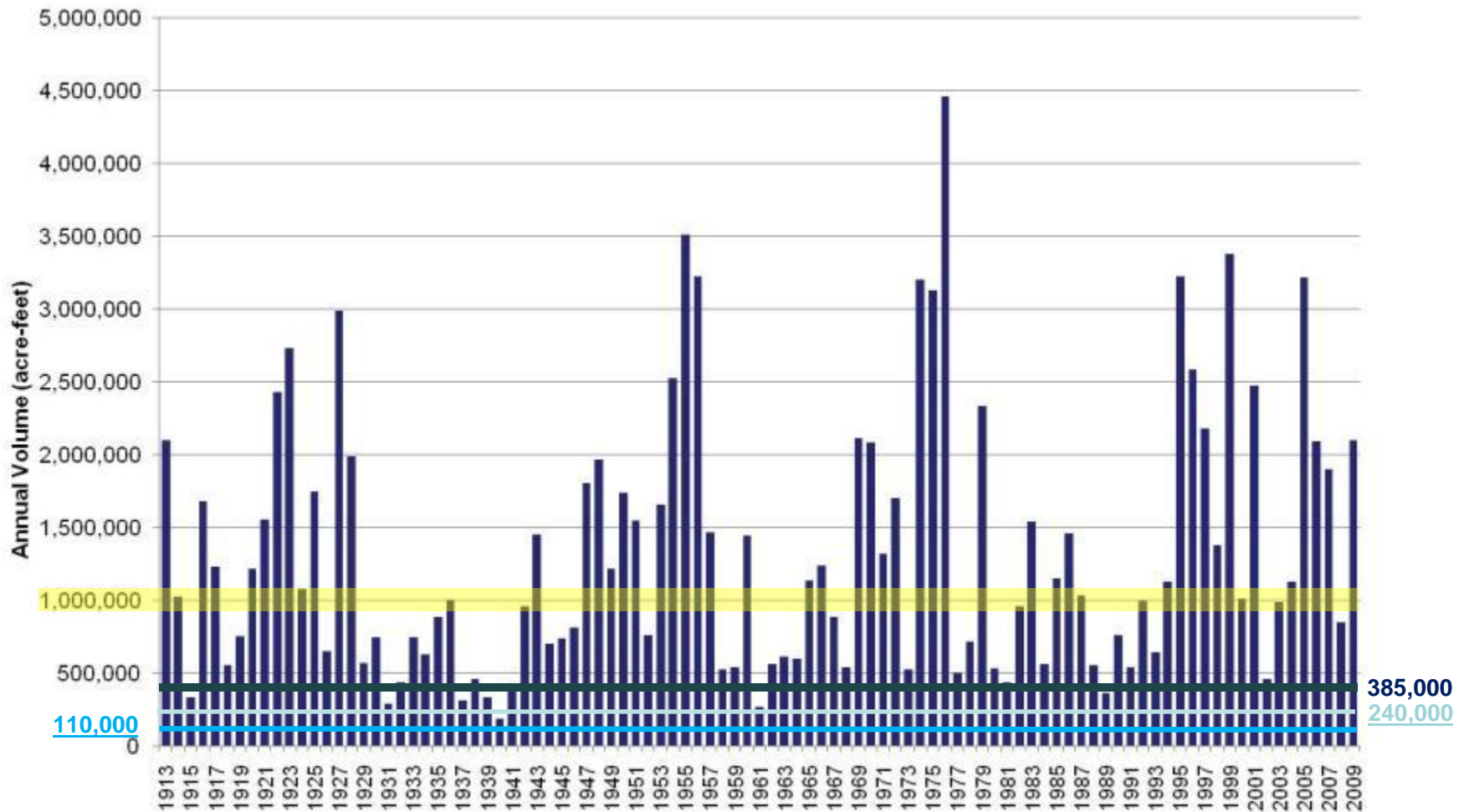


Assiniboine River at Headingley plus Portage Diversion Annual Volumes



Factor In The  
Environmental Base Flows  
(145,000 acre-feet/year)

Assiniboine River at Headingley plus Portage Diversion Annual Volumes



The End