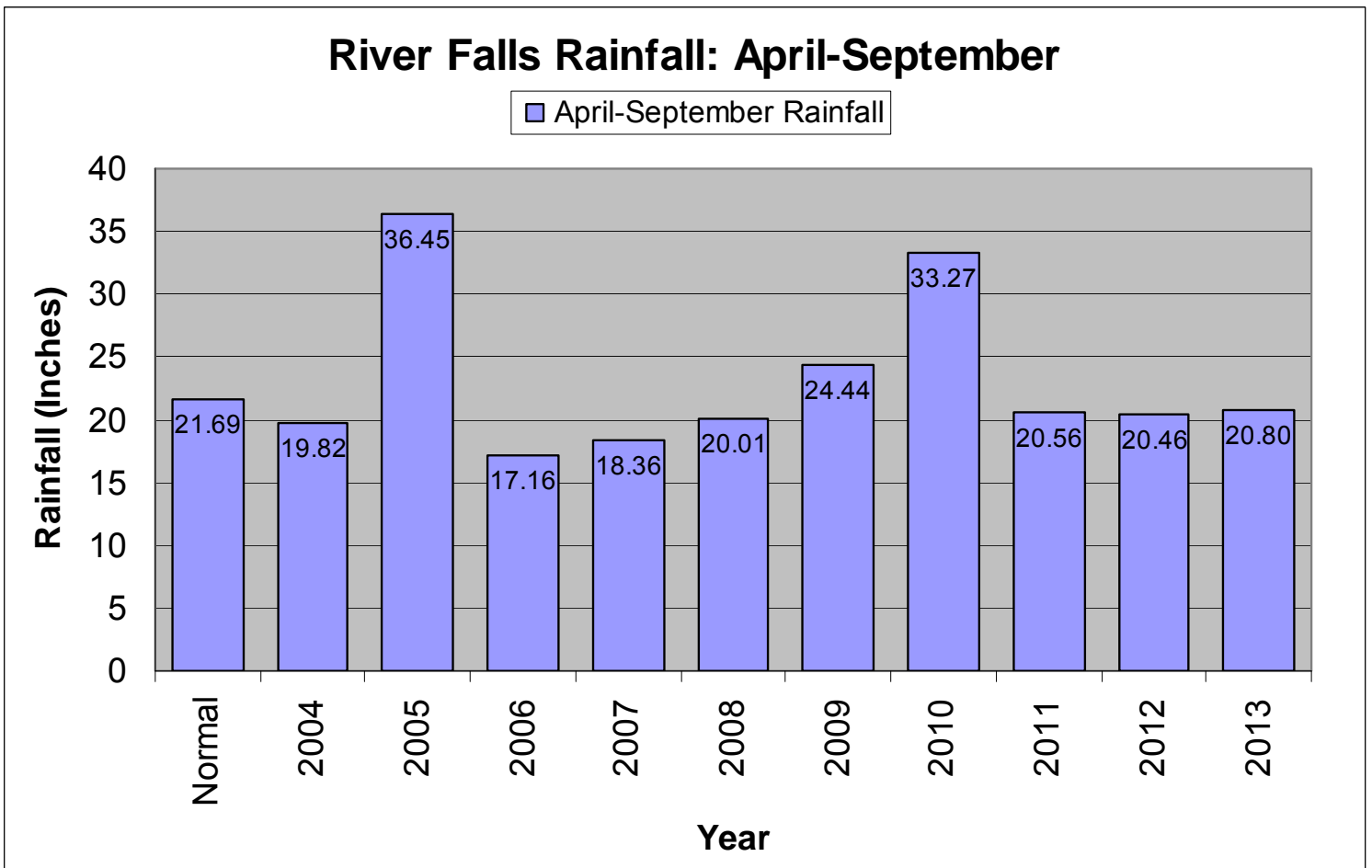


**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

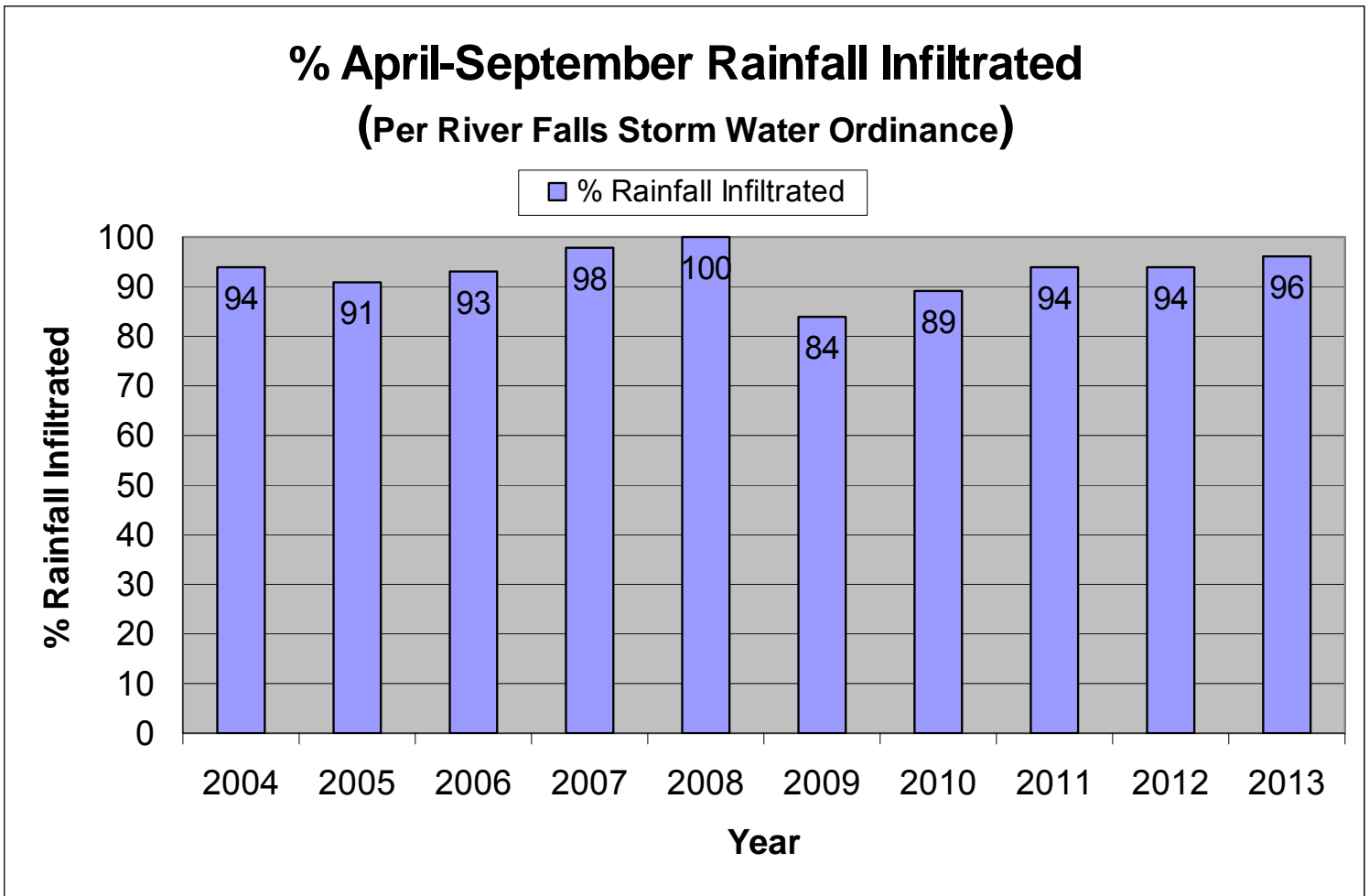
**River Falls Rainfall (April-September):**



**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

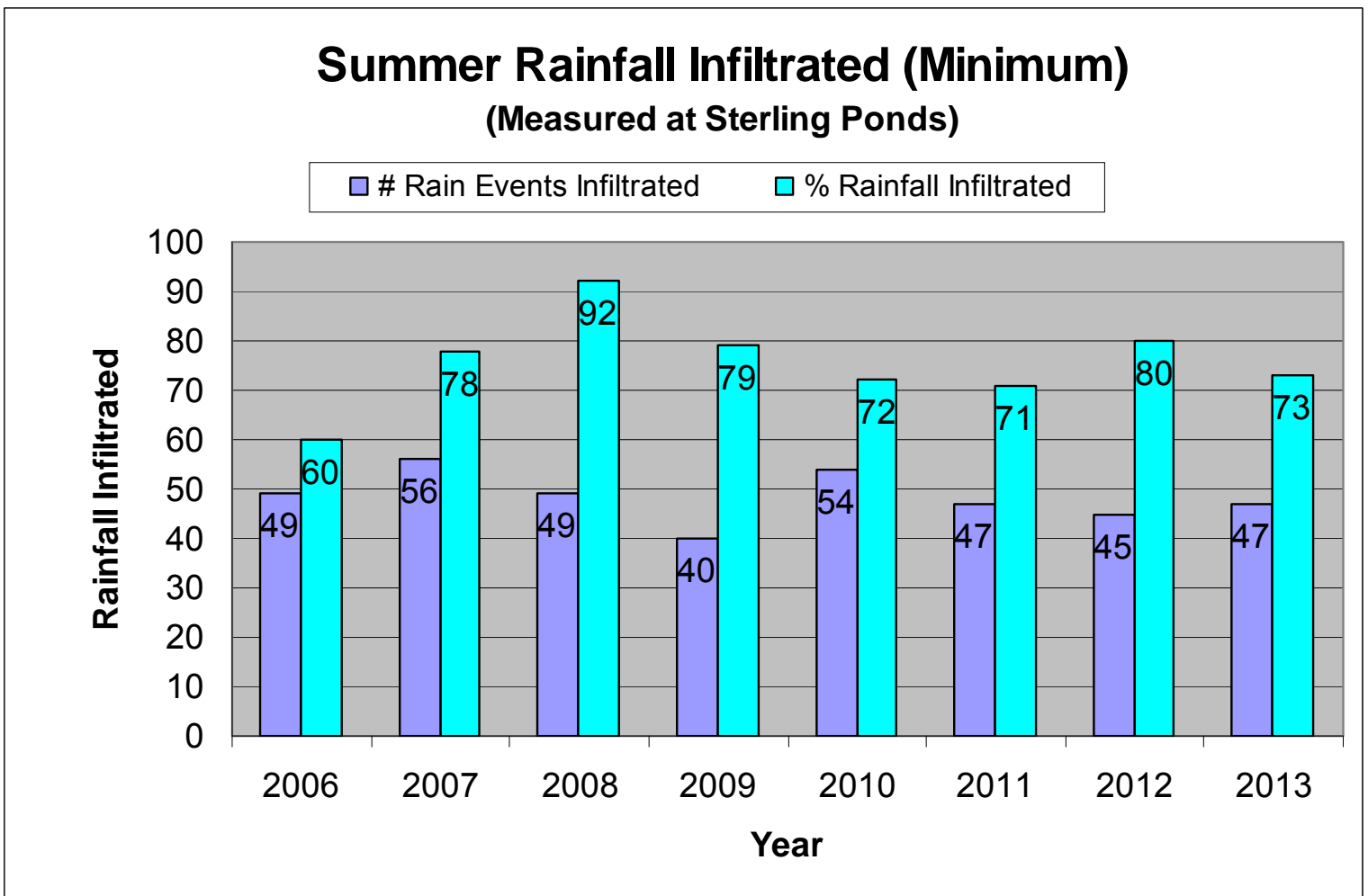
**River Falls Rainfall Infiltrated (April-September),  
Per Storm Water Ordinance:**



**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Number of Summer Rain Events Infiltrated and % Summer Rainfall Infiltrated,  
As Measured at Sterling Ponds:**

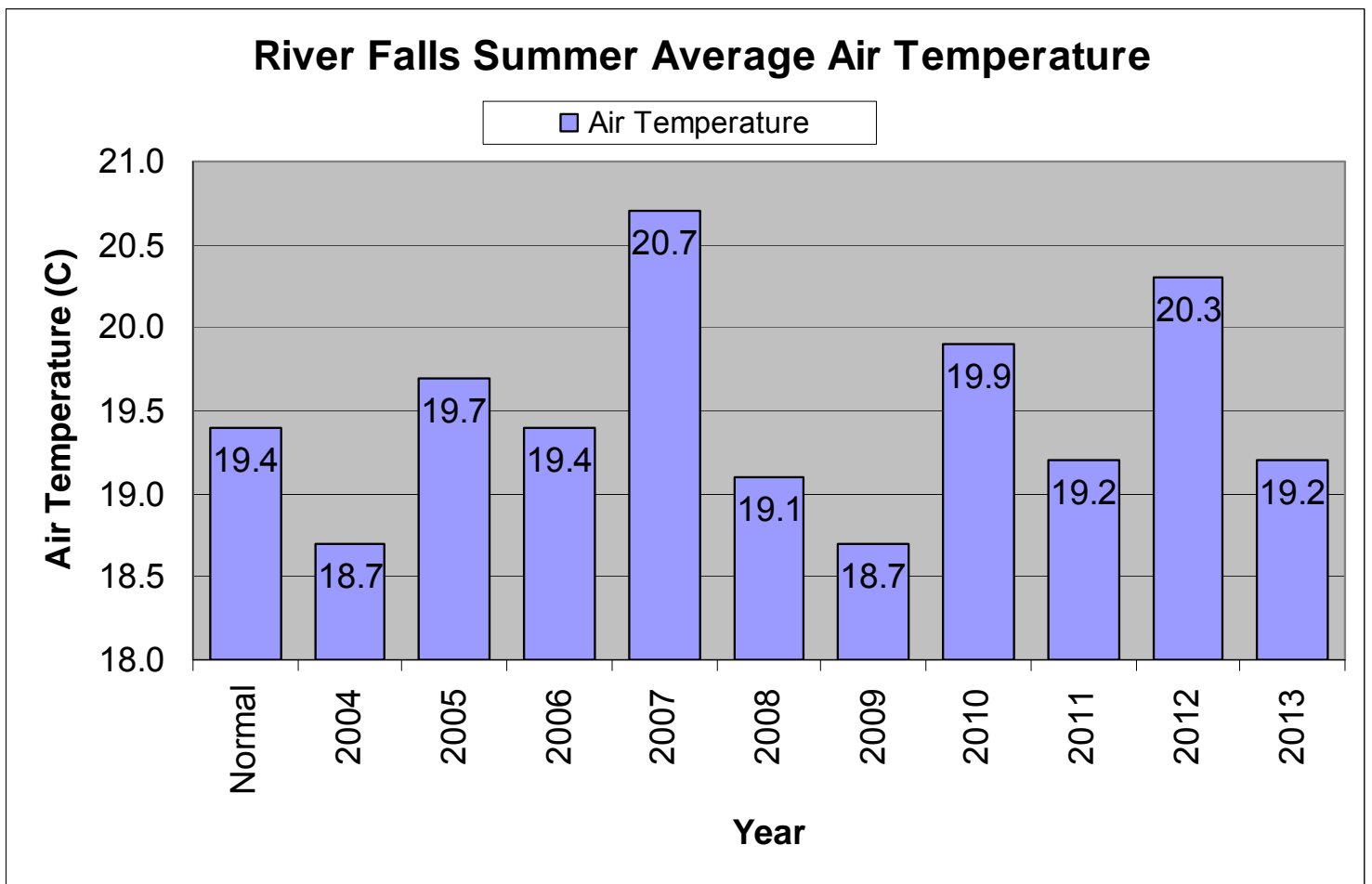


Summer = May-September

**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**River Falls Summer Average Air Temperature:**

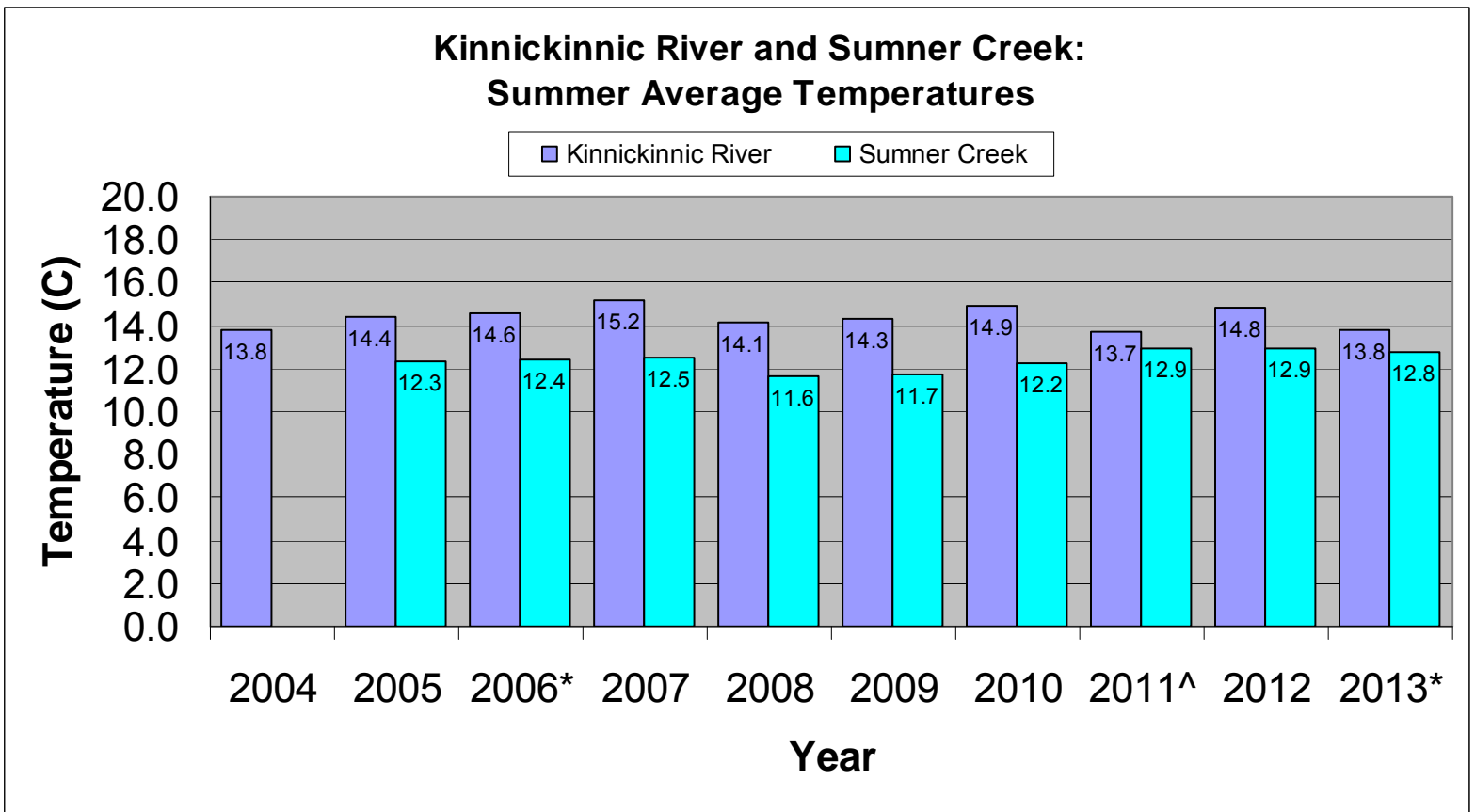


Summer = May-September

**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Kinnickinnic River and Sumner Creek Summer Temperatures:**



Kinnickinnic River = Sites 1, 1A, and 2  
(\*Sites 1 and 1A only in 2006 and 2013)  
(^Site 1A only in 2011)

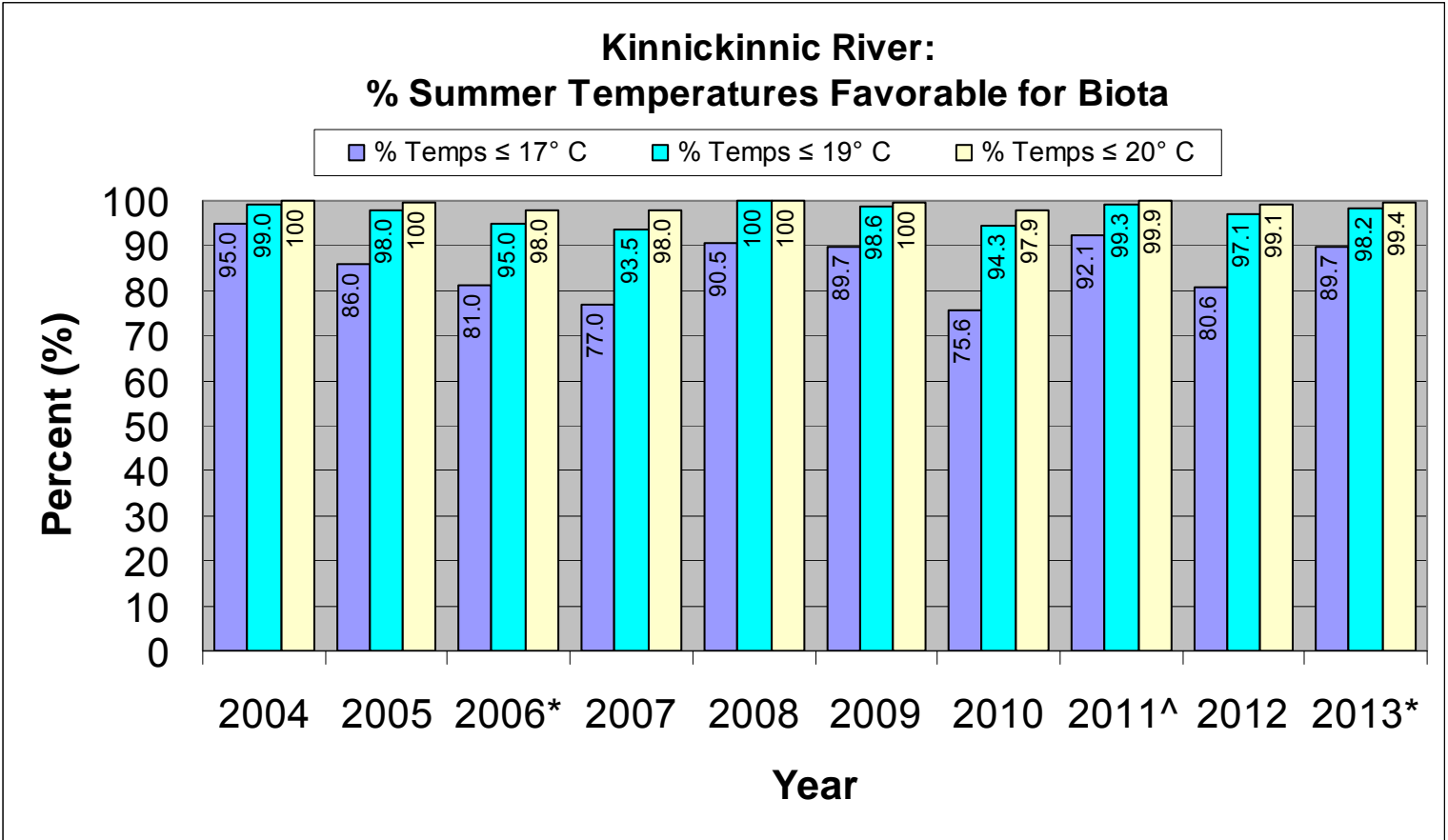
Sumner Creek = Site 4A (Mouth)

Summer = May-September

**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Kinnickinnic River Summer Temperatures Favorable for Biota:**



Kinnickinnic River = Sites 1, 1A, and 2  
 (\*Sites 1 and 1A only in 2006 and 2013)  
 (^Site 1A only in 2011)

Summer = May-September

% Temps ≤ 17° C = % river temperatures optimal for macroinvertebrate survival

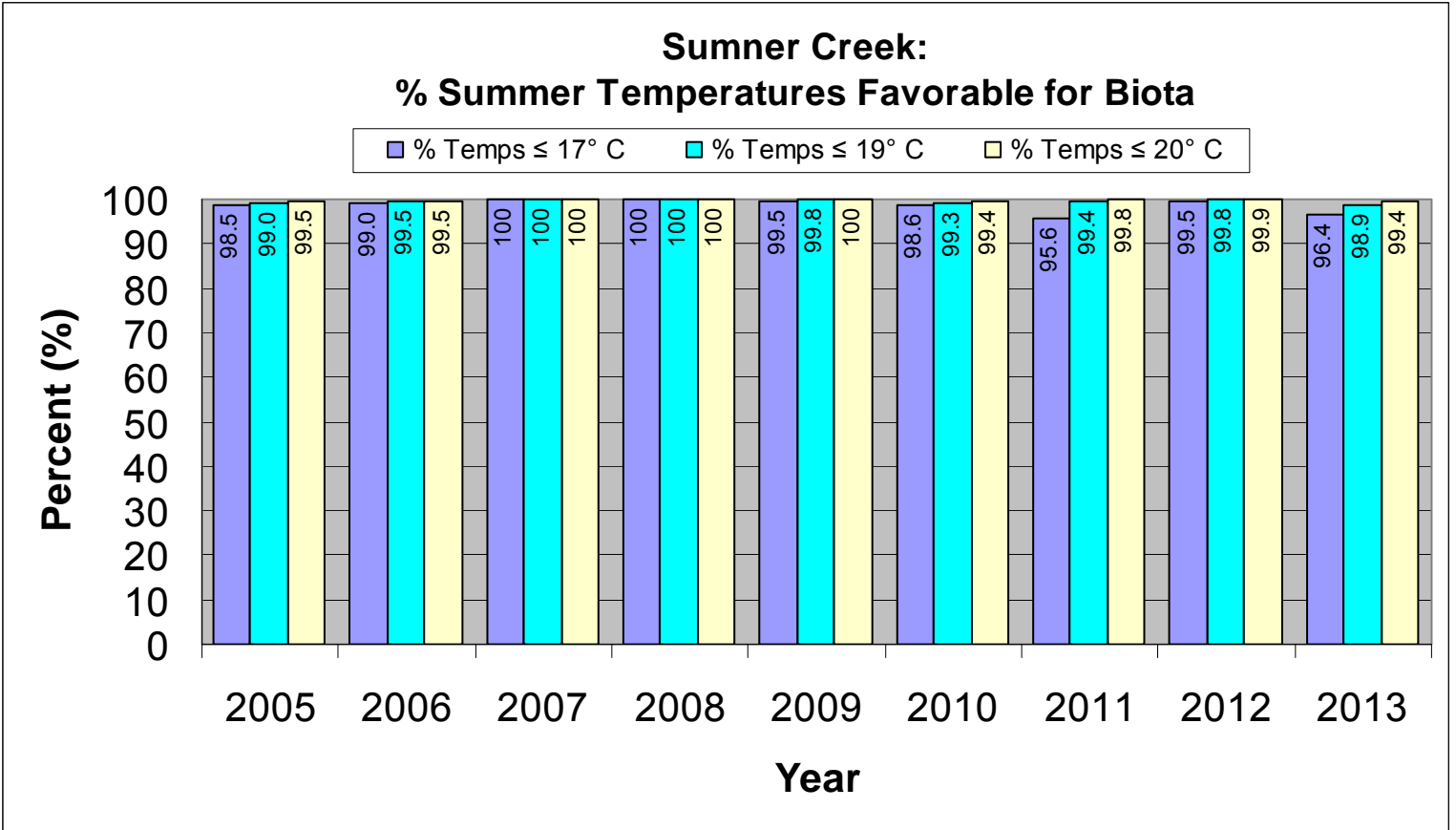
% Temps ≤ 19° C = % river temperatures optimal for brown trout growth

% Temps ≤ 20° C = % river temperatures optimal for brown trout survival

**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Sumner Creek Summer Temperatures Favorable for Biota:**



Sumner Creek = Site 4A

Summer = May-September

% Temps ≤ 17° C = % river temperatures optimal for macroinvertebrate survival

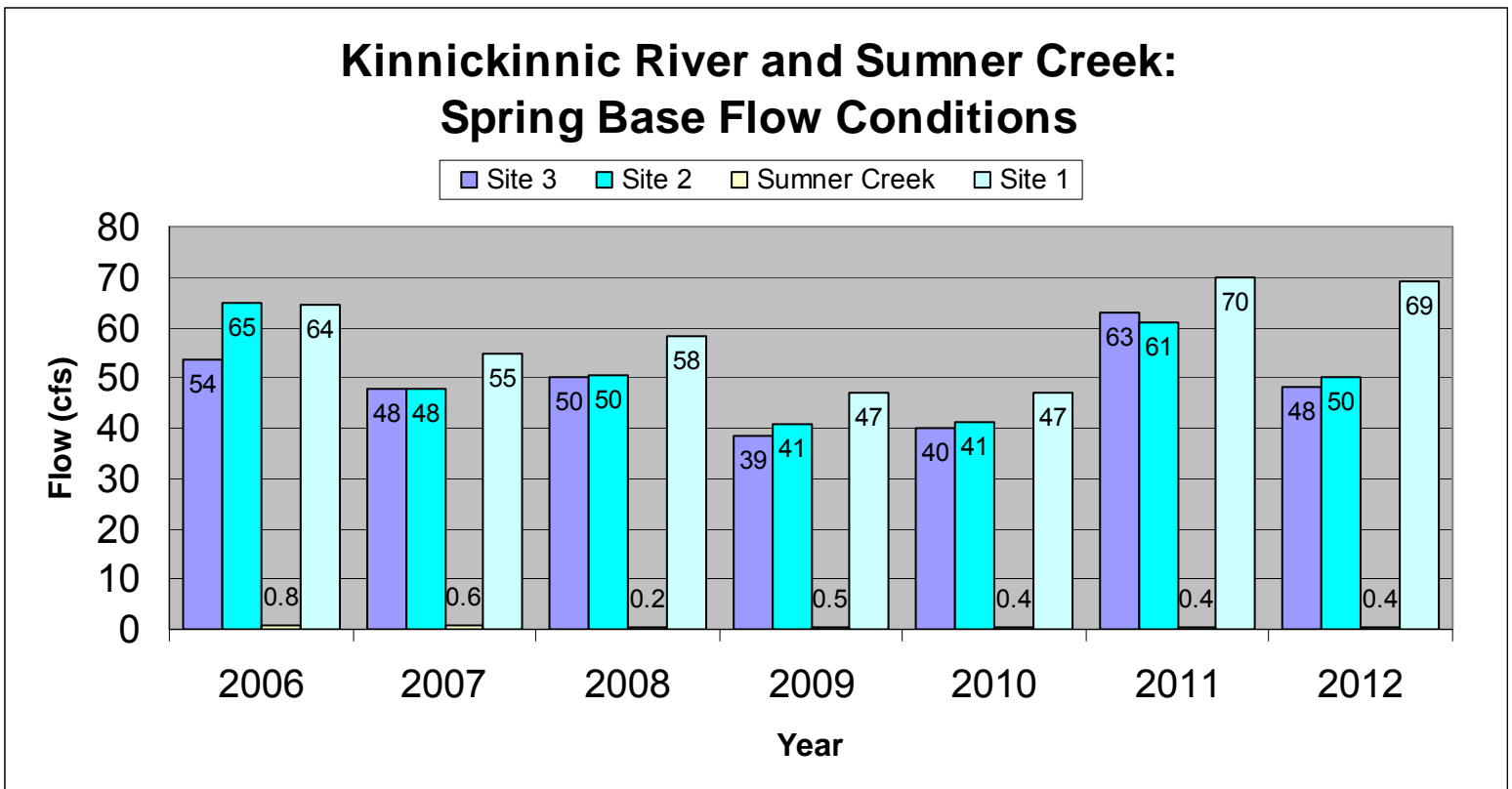
% Temps ≤ 19° C = % river temperatures optimal for brown trout growth

% Temps ≤ 20° C = % river temperatures optimal for brown trout survival

**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Kinnickinnic River and Sumner Creek Spring Base Flow Conditions:**

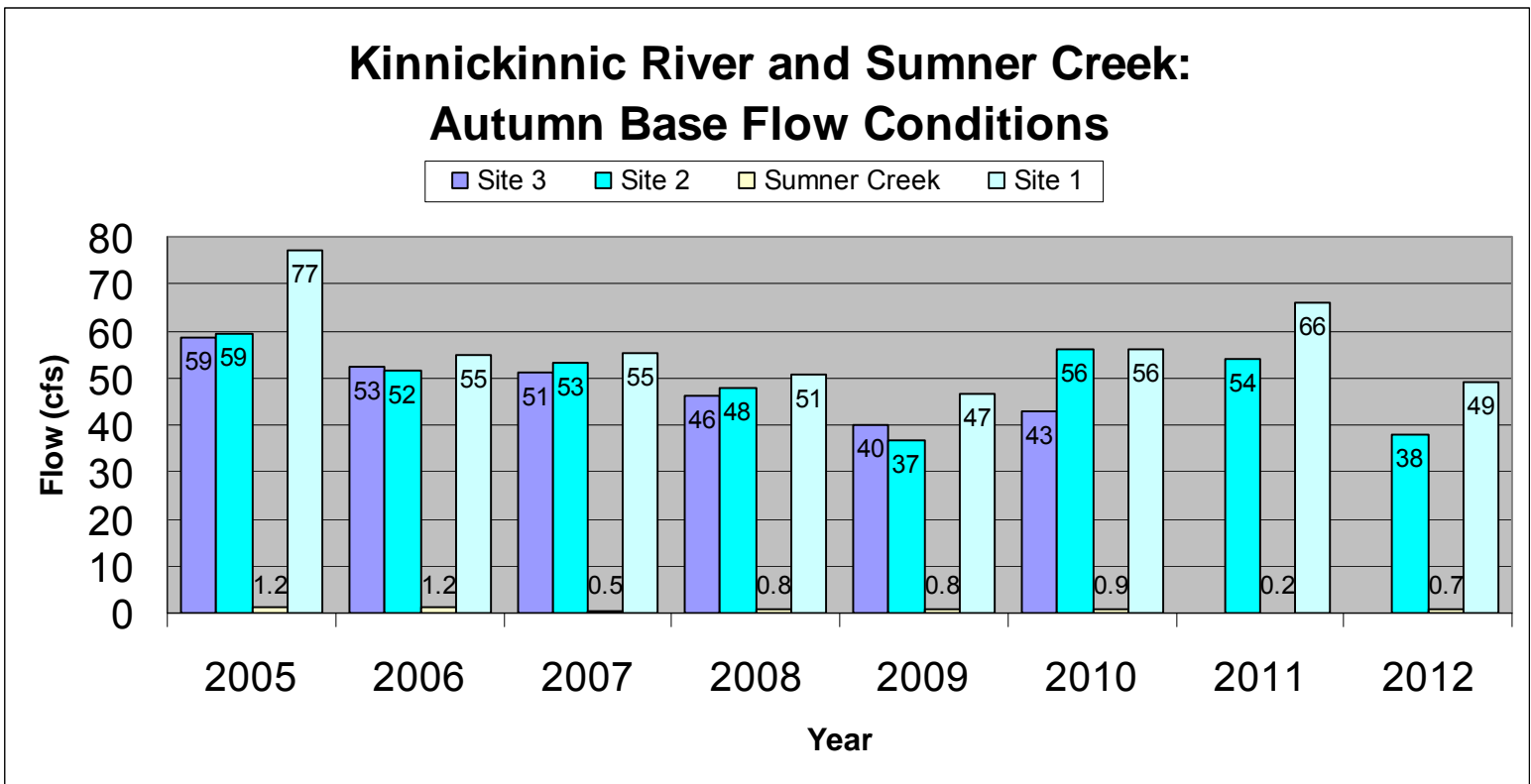




**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

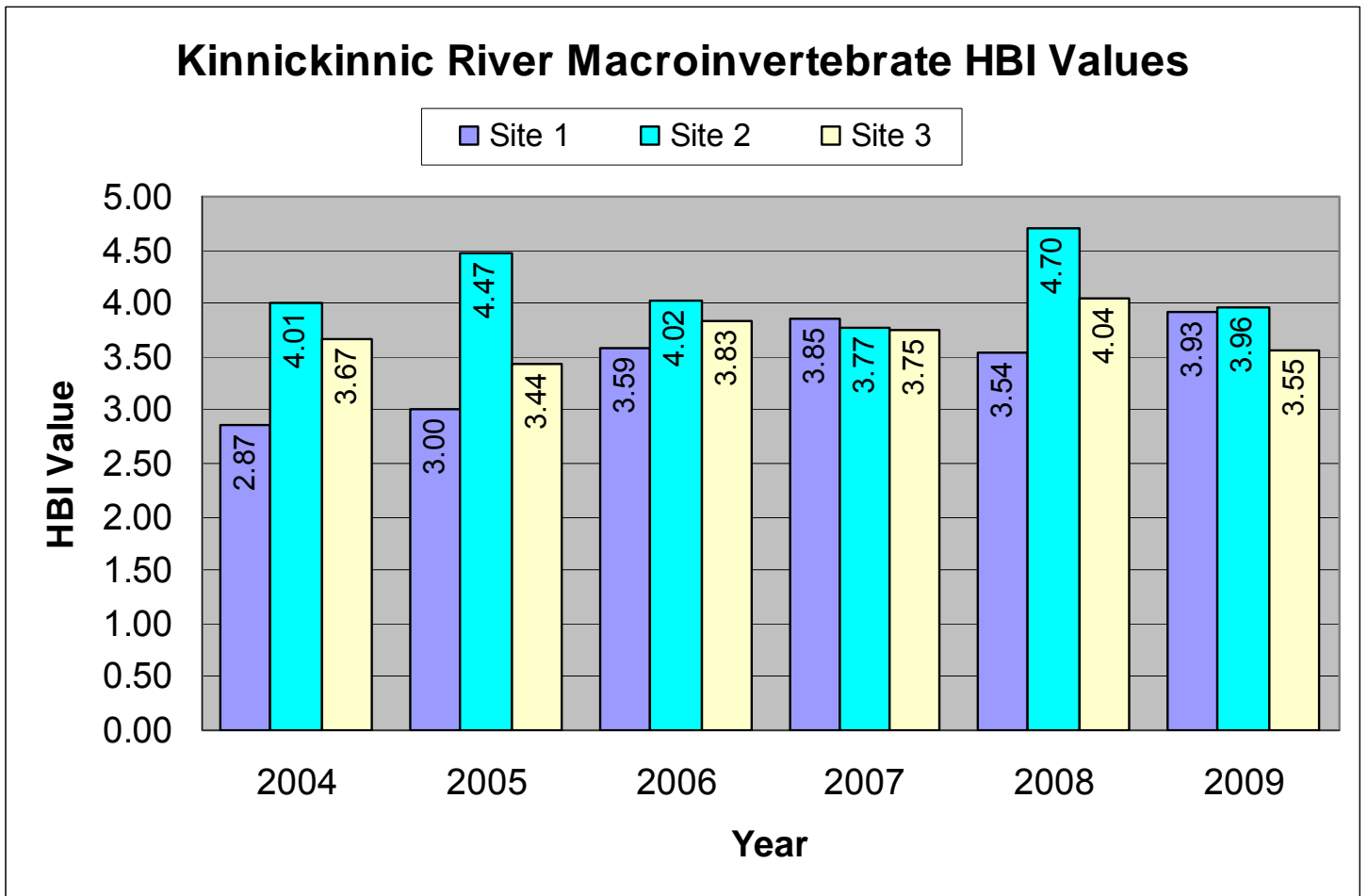
**Kinnickinnic River and Sumner Creek Autumn Base Flow Conditions:**



**City of River Falls  
North Kinnickinnic River Monitoring Project**

**Project Indicators**

**Kinnickinnic River Macroinvertebrate HBI Values**



HBI Value	Water Quality	Degree of Organic Pollution
0.00-3.50	Excellent	No apparent organic pollution
3.51-4.50	Very Good	Slight organic pollution
4.51-5.50	Good	Some organic pollution