

Thinking *Watershed* – in every sense of the word

**WATERSHED
SUMMIT 2011**

MINNESOTA DIVISION
IZAAK WALTON LEAGUE of AMERICA

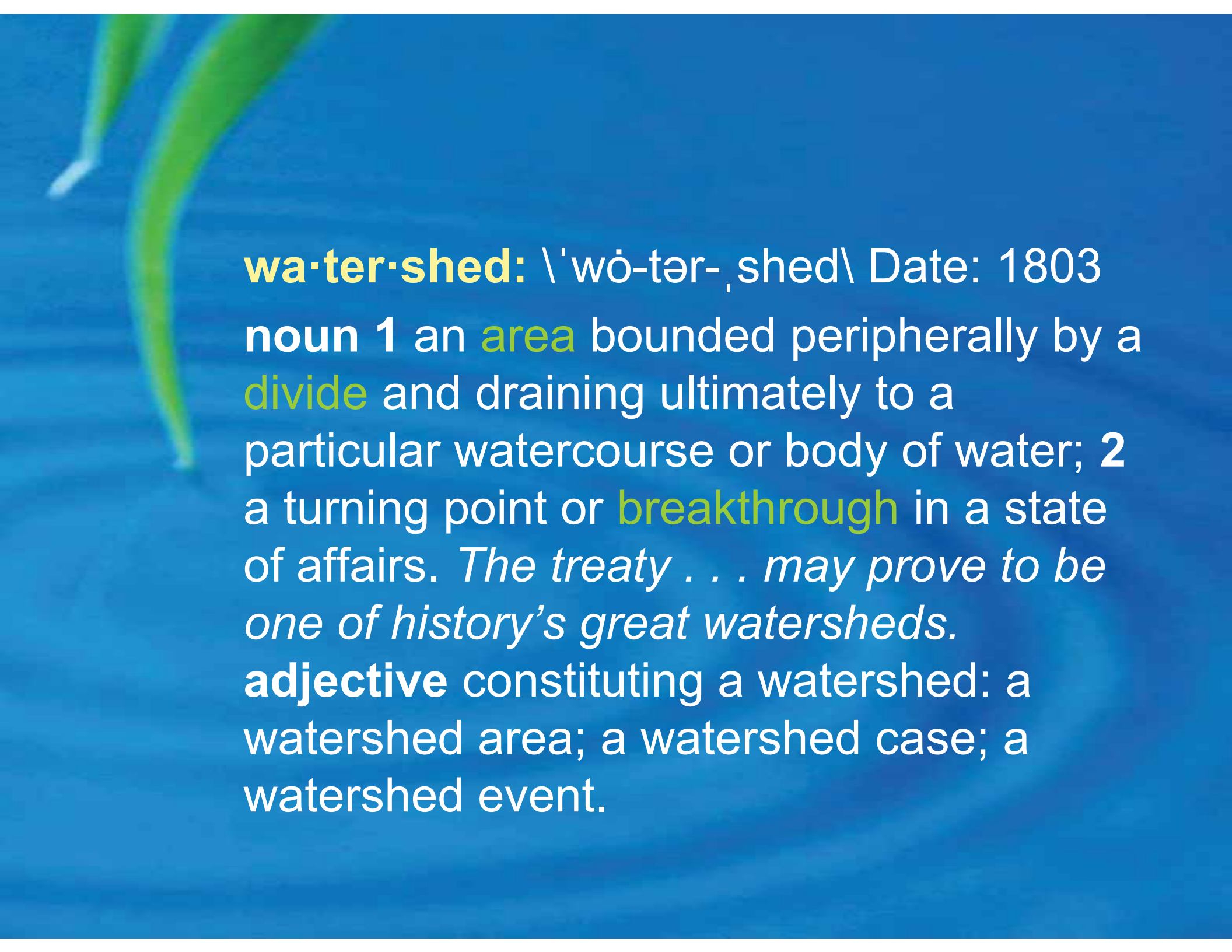
 **FRESHWATER SOCIETY**



Louis Smith



March 12, 2011

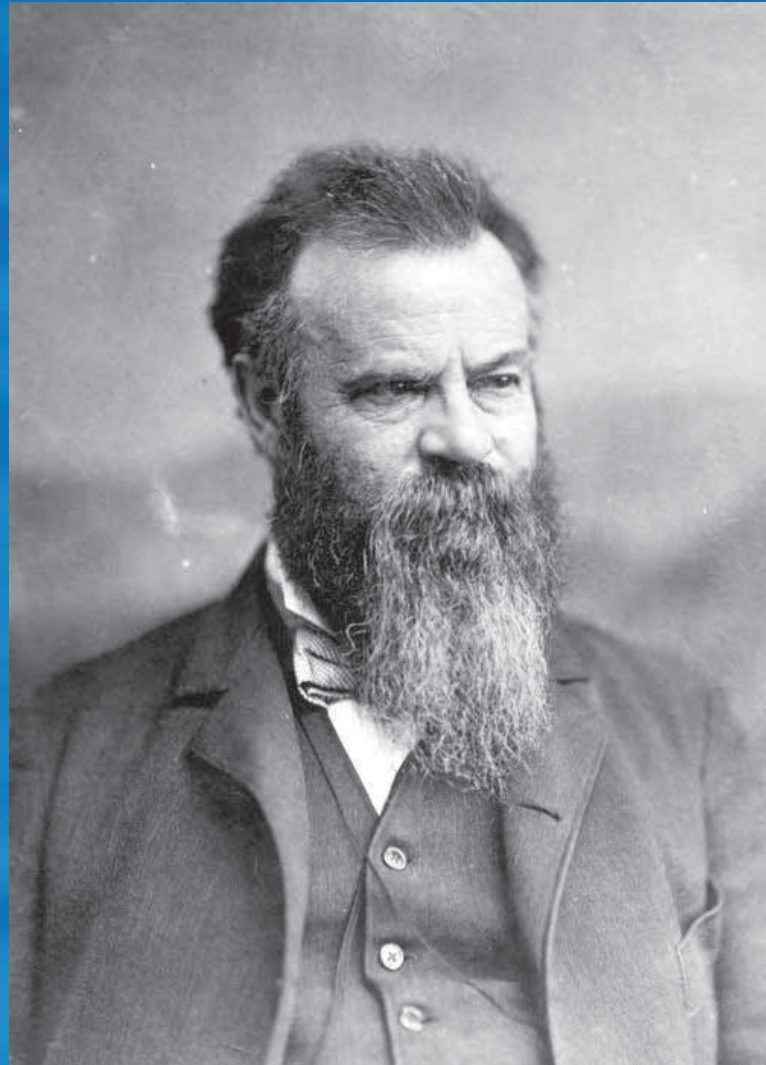
A green leaf is visible in the upper left corner of the image, set against a solid blue background. The leaf is slightly out of focus and curves downwards.

wa·ter·shed: \ 'wō-tər- ,shed\ Date: 1803
noun 1 an **area** bounded peripherally by a **divide** and draining ultimately to a particular watercourse or body of water; 2 a turning point or **breakthrough** in a state of affairs. *The treaty . . . may prove to be one of history's great watersheds.*
adjective constituting a watershed: a watershed area; a watershed case; a watershed event.

A Watershed



John Wesley Powell



Watershed Commonwealths

- Hydrographic basins
- Interdependent
- Local self government



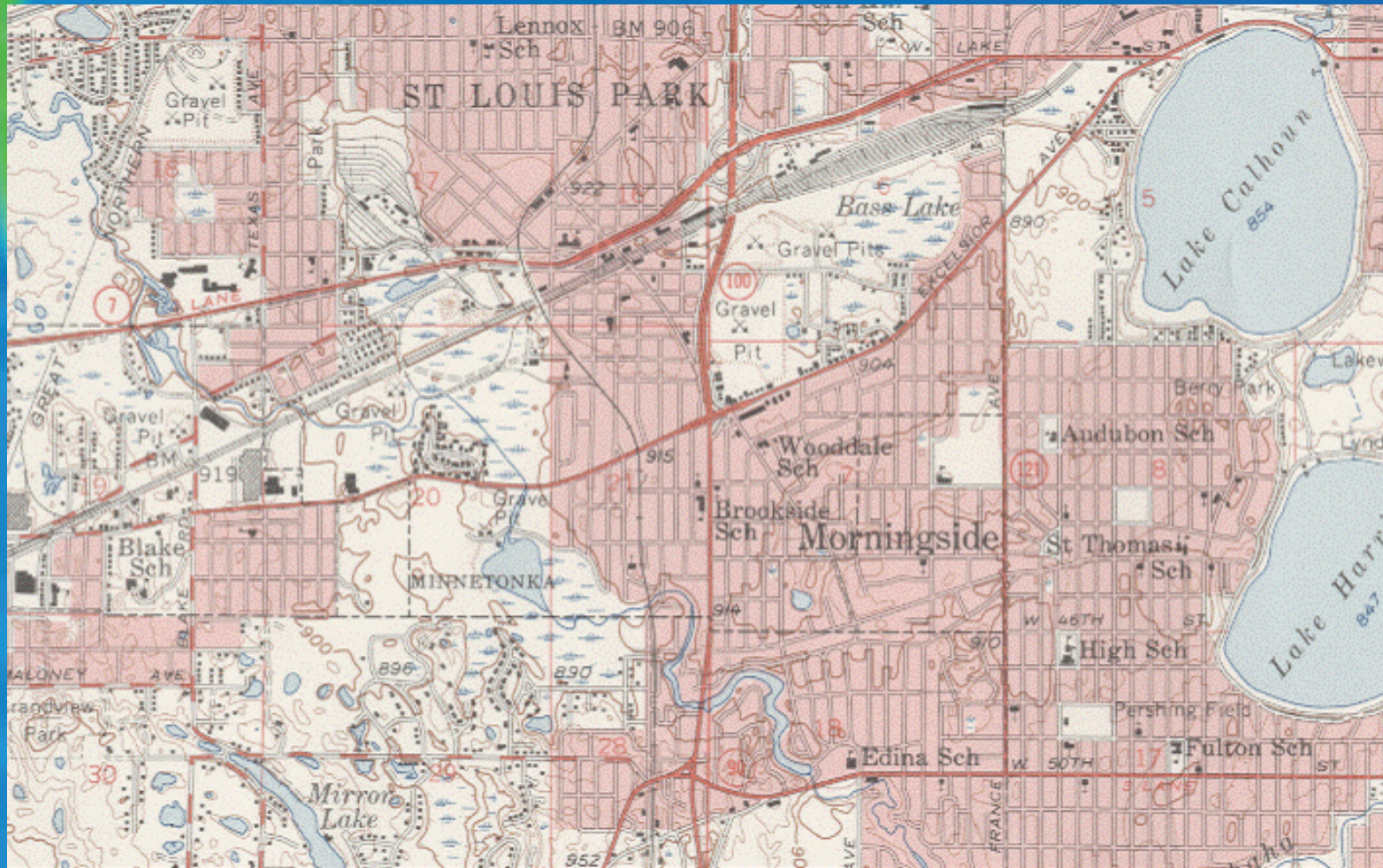
Eleventh Annual Report of the United States Geological Survey, 1890-91

Watersheds and Land Use: Southwest Lake Calhoun Subwatershed



1901 USGS

Watersheds and Land Use: Southwest Lake Calhoun Subwatershed



1954 USGS

Watersheds and Land Use: Southwest Lake Calhoun Subwatershed



1940 USGS Air Photo

Watersheds and Land Use: Southwest Lake Calhoun Subwatershed



1995 USGS Air Photo

Raymond Haik



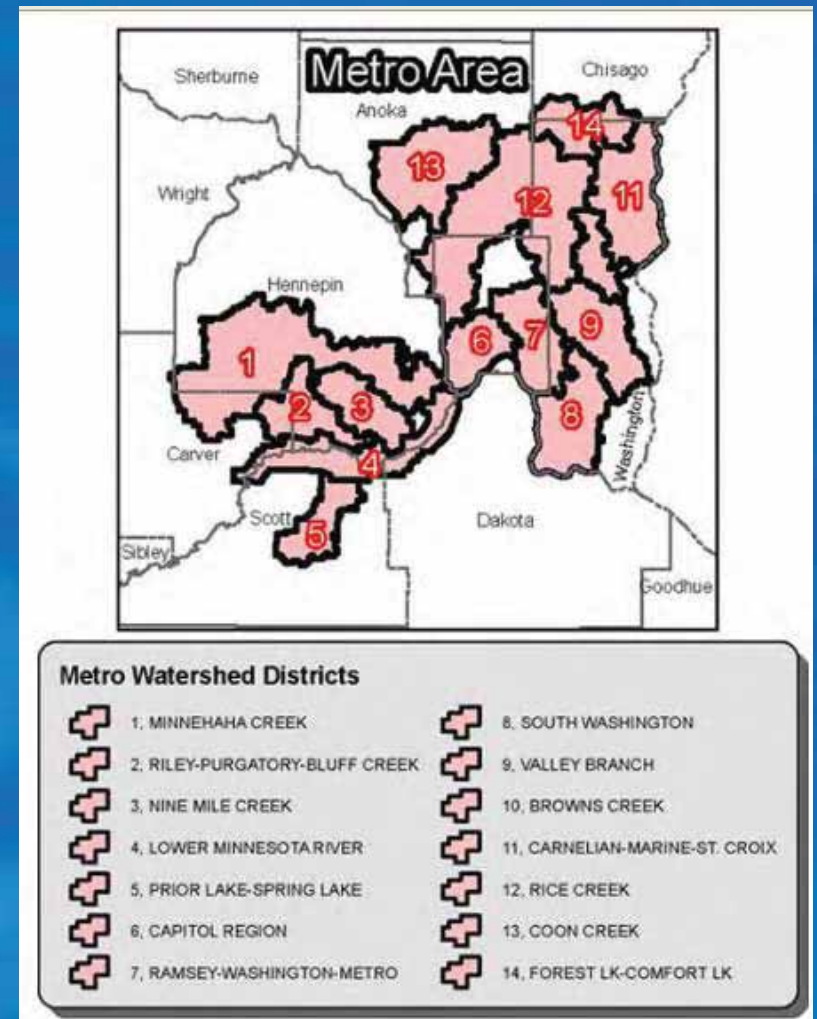
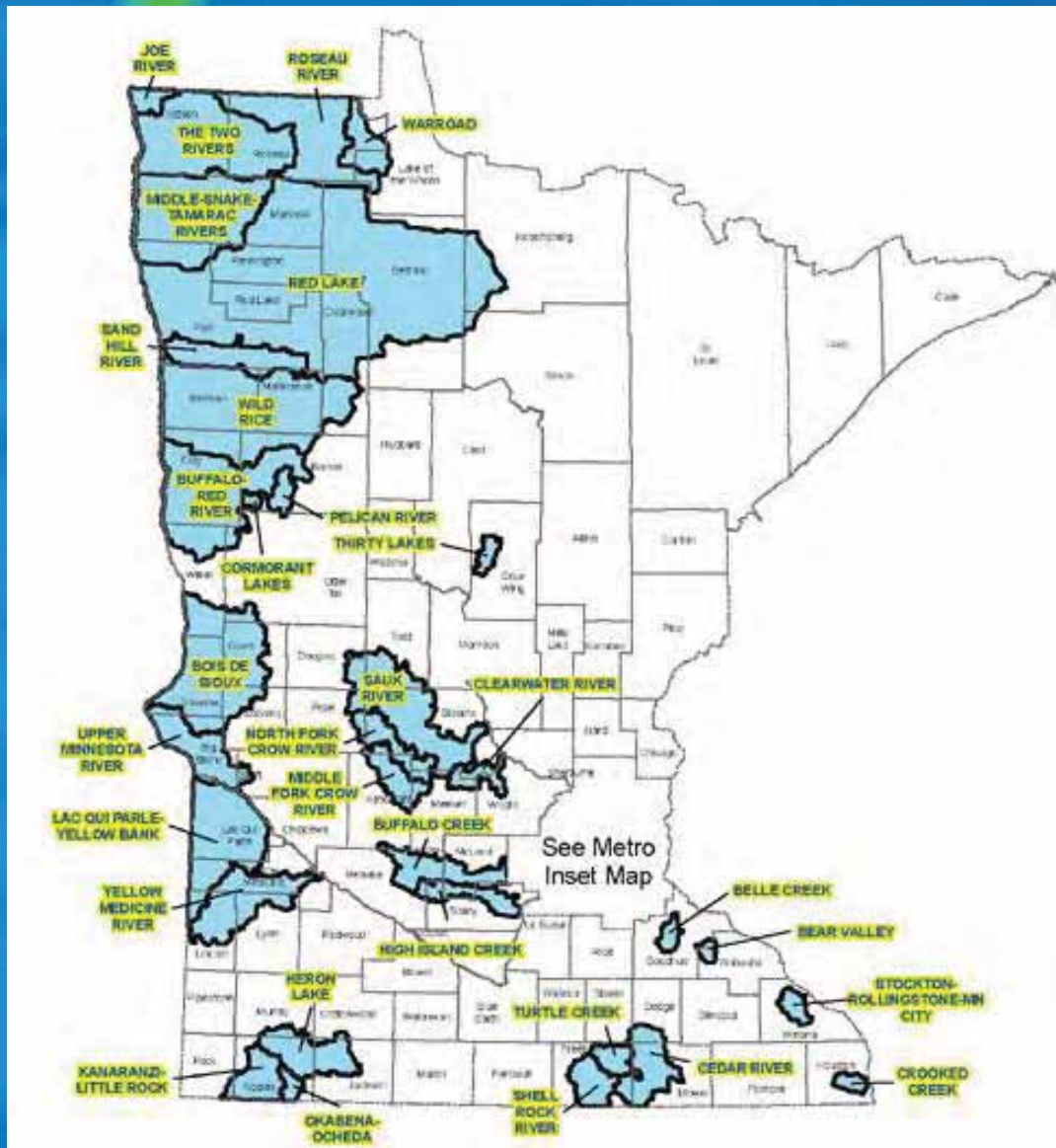
Minnesota Watershed Act 1955

- Concerns: drainage of wetlands, flooding
- Problems pushed downstream
- New special purpose unit of government
- Formed by petition

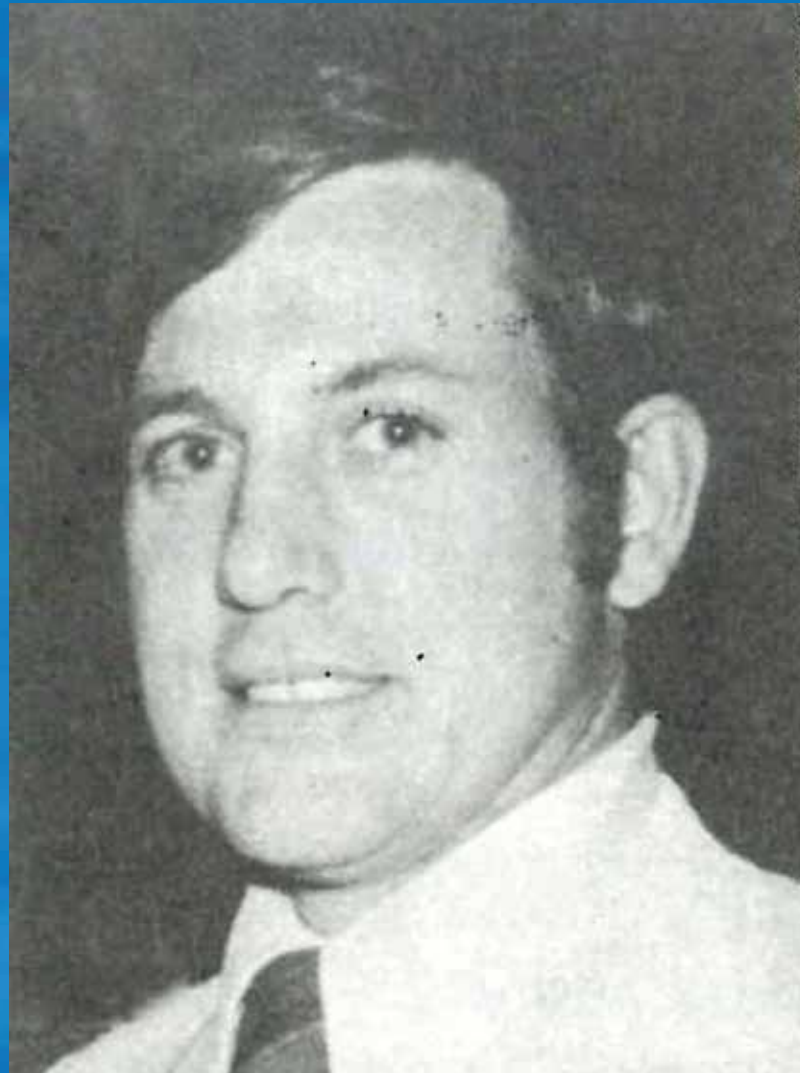
Minnesota Watershed Districts

- Independent citizen board
- Property tax levies, assessments
- Regulatory authority land use/water
- Finance water resource improvements

Minnesota Watershed Districts



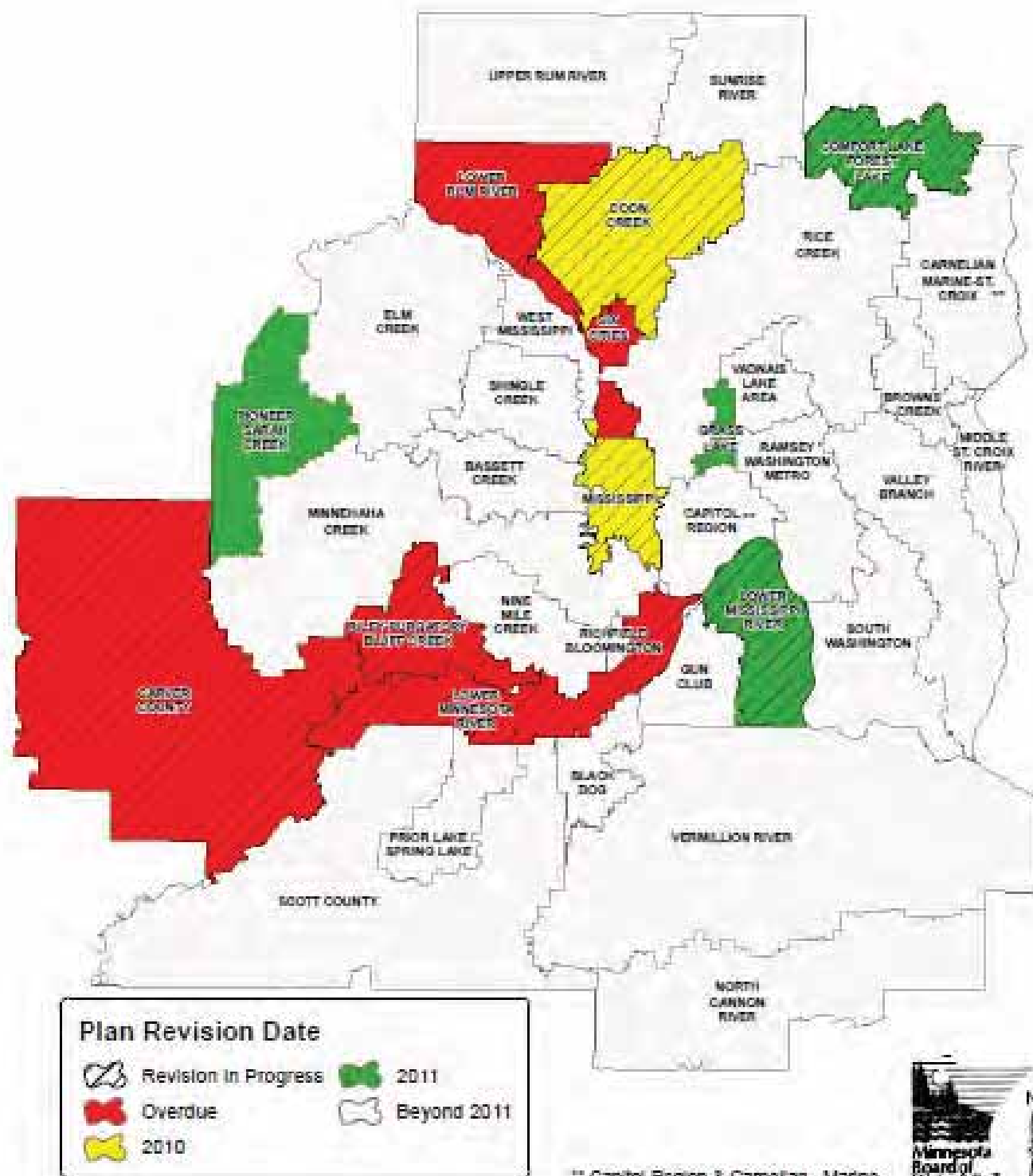
Gene Merriam



1982 Metropolitan Surface Water Management Planning Act

- Concerns: cost effectiveness, tax equity for watershed projects
- 7 county metro area only
- 10 year planning requirement
- Water Management Organization required
- Watershed District or Joint Powers WMO
- Watersheds and Cities

Twin Cities Metropolitan Area Watershed Districts and Management Organizations Plan Revision Dates



Note: District boundaries are provided by LGUs and are approximate representations of the actual legal boundary.

** Capitol Region & Carleton - Marine - St. Croix status pending August 2010 BWSR Board Approval.



Watershed Planning Mecca!



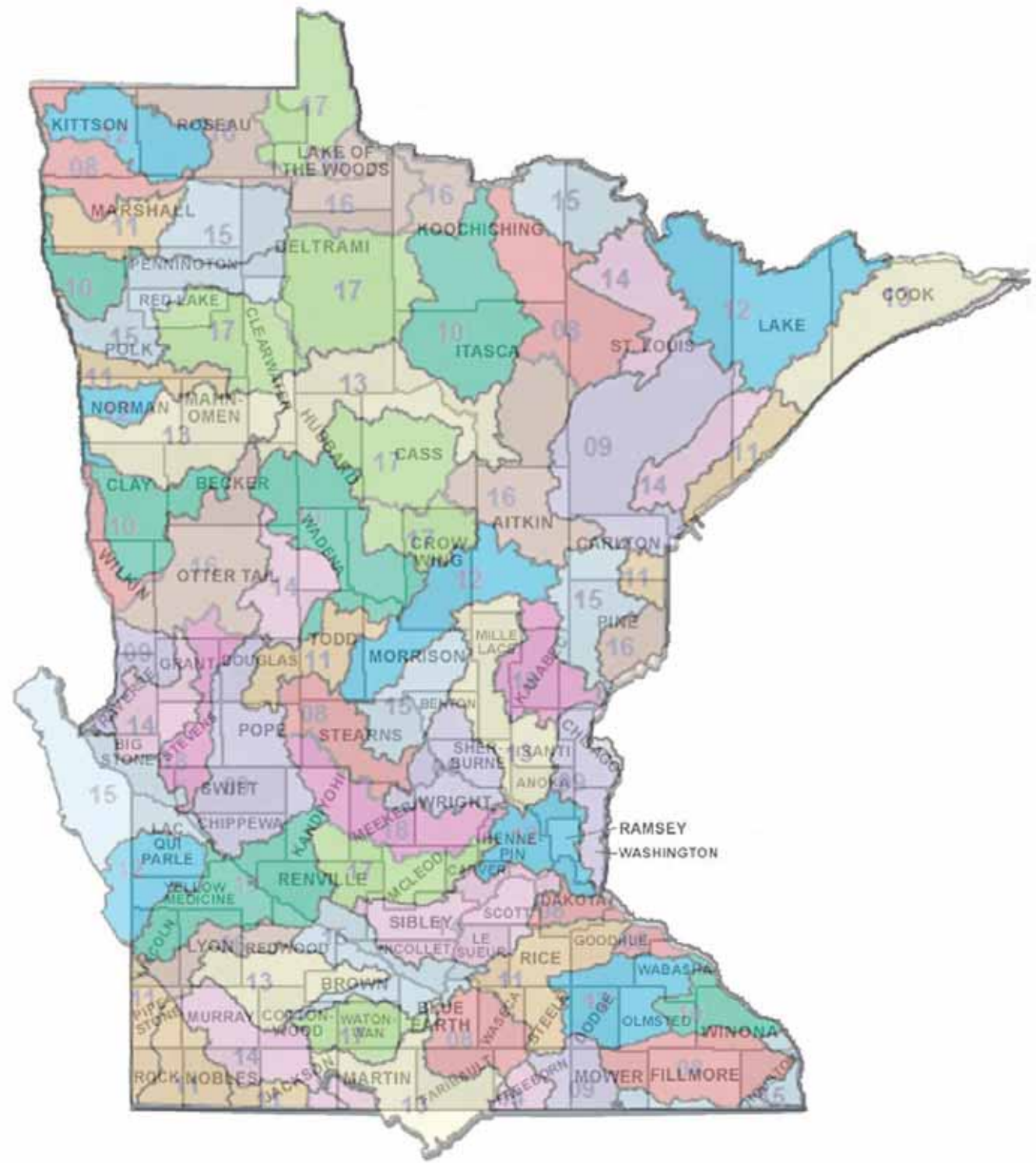
Pilgrims crowd around the Ka'ba during the Hajj.



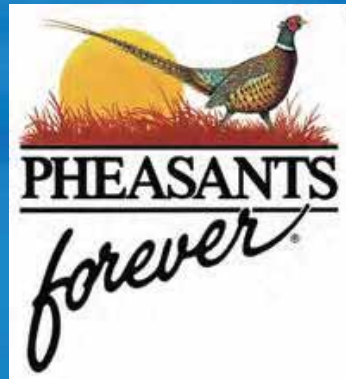
Minnesota
Counties



Minnesota Counties and Watersheds



Watersheds and Citizens



A green leaf is visible in the upper left corner of the slide, set against a blue background with a subtle, wavy pattern. The leaf is slightly out of focus.

Thinking *Watershed*

- Drainage divide
- Powell's hydrographic commonwealth
- MN Watershed Districts
- Breakthroughs in Citizen Engagement and Partnerships