Benefits of Archived ET data

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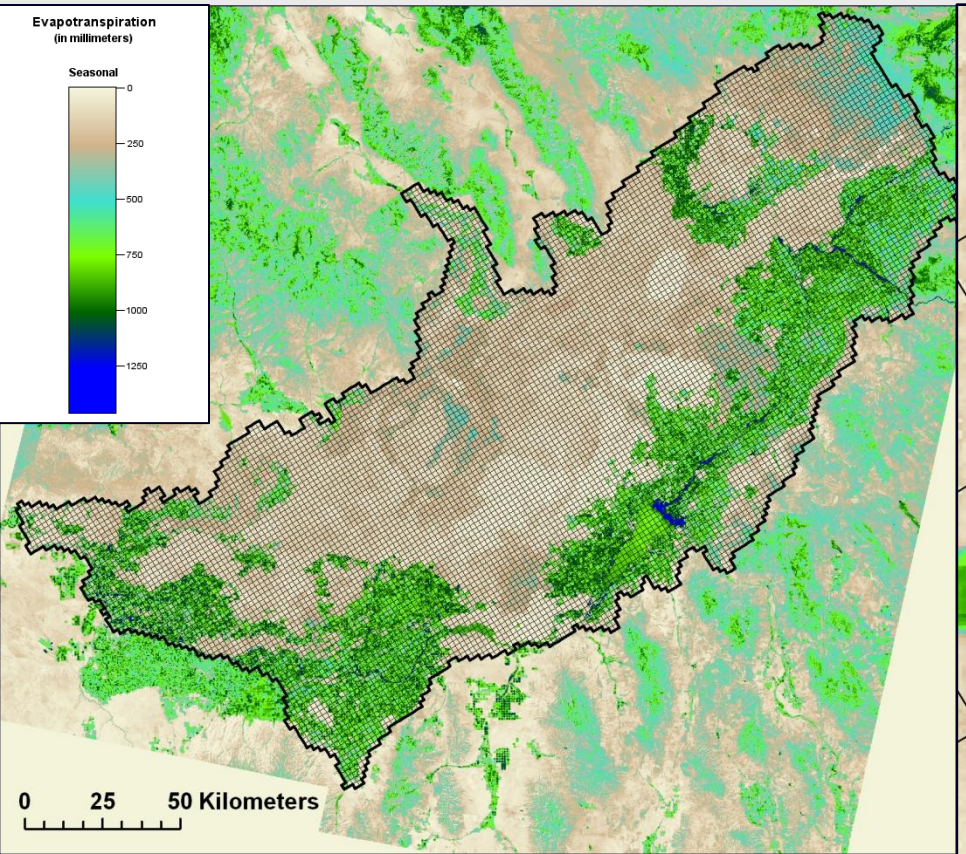
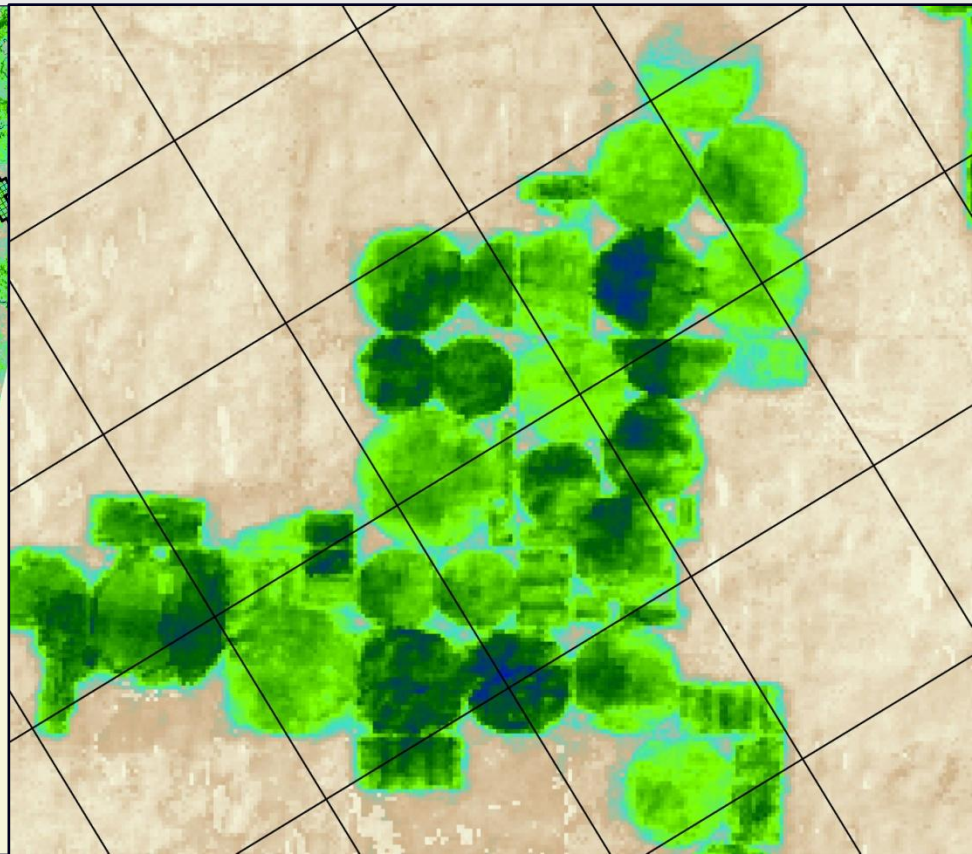
First Annual Western States ET Workshop
October 12-13, 2011. Boise, Idaho.

Eastern Snake Plain Aquifer Model

- ~ 2 million acres of irrigated cropland
- ~ 4 million acre-feet of ET per year
- ~ 7½ million acre-feet of water available annually



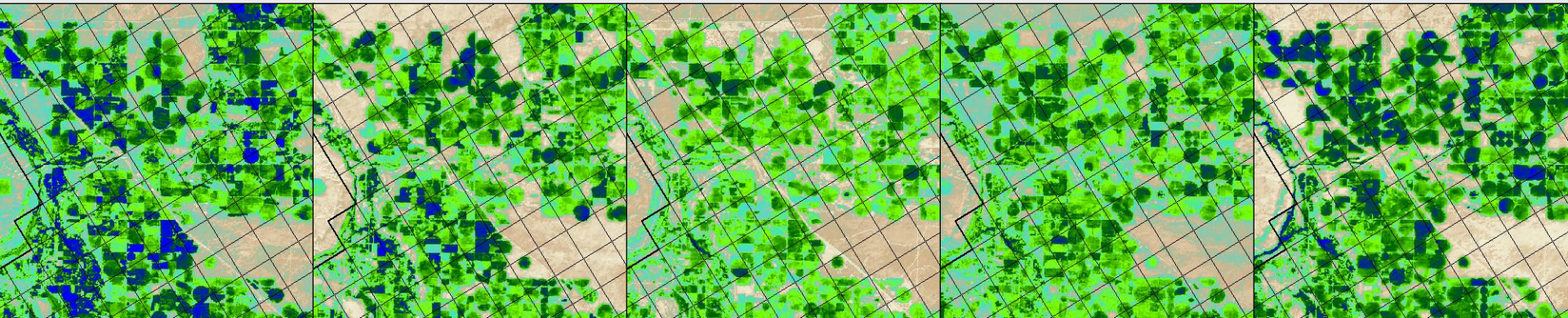


Eastern Snake Plain Aquifer Model

METRIC ET data

- Developing ET data from 1986 to present
- Completed for: 1996, 2000, 2002, 2006, and 2008
- Calibrates the groundwater model
- Improves accuracy of depletions and recharge estimates
- Shows long term trends in ET

1996 **2000** **2002** **2006** **2008**



Clear Springs Foods Water Call

Idaho Business *News*

Water curtailment ordered in Magic Valley

POSTED: 11:13 MDT Thursday, July 23, 2009

by **IBR Staff**

Idaho Department of Water Resources Interim Director Gary Spackman on July 22 issued a **curtailment order** to about 250 holders of 315 junior water rights in south central Idaho's Magic Valley. The curtailment order is part of a continuing response to a water delivery call made in 2005 by senior water right holder Clear Springs Foods.

State goes ahead with first large-scale well closure of more than 300 water rights in M.V.

7/31/2009

Water districts have limited options, could file a stay

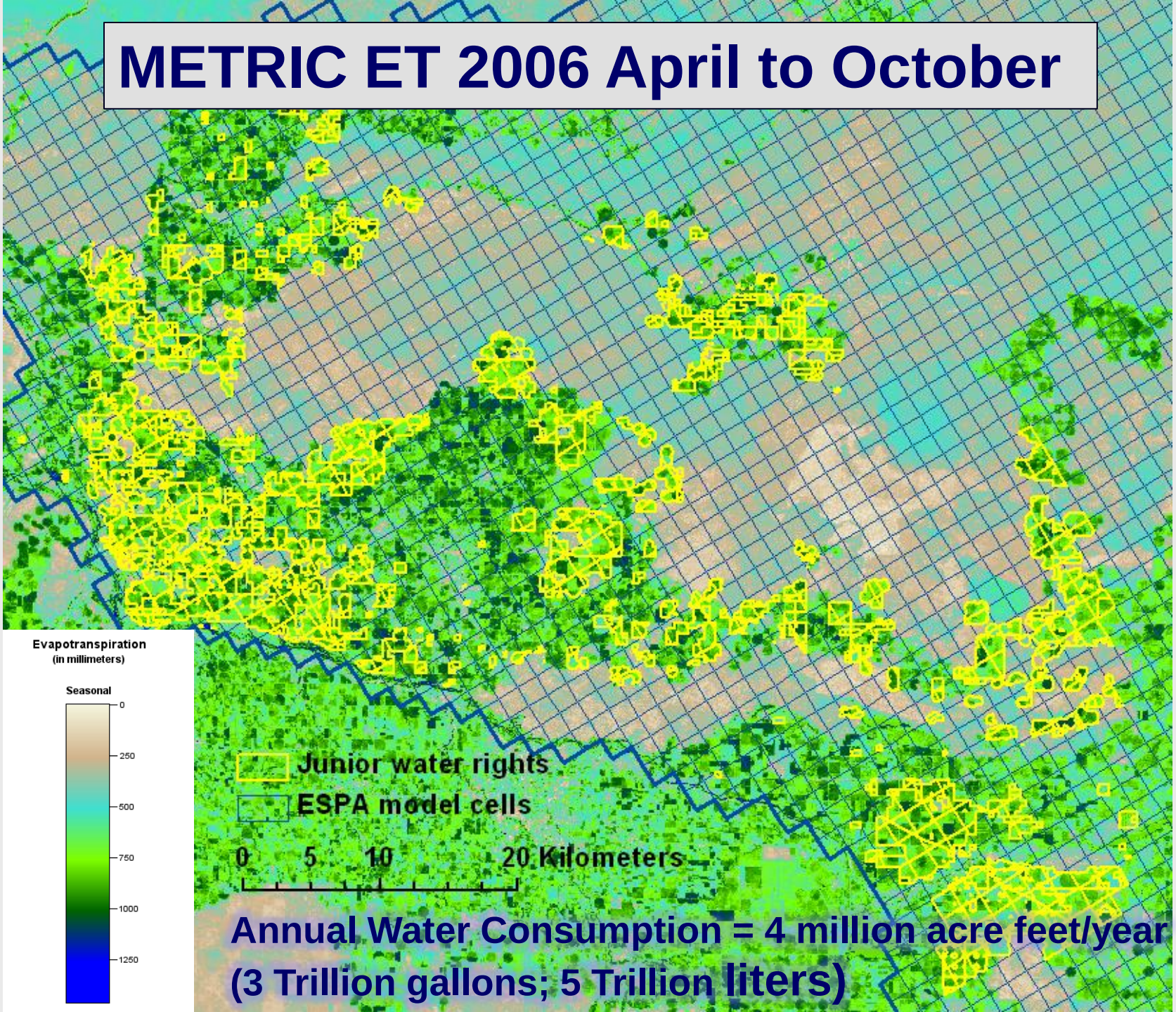
By Nate Poppino

Times-News writer

The Idaho Department of Water Resources will go forward this morning with a plan to shut off more than 300 water rights irrigating just less than 9,000 acres of Magic Valley farmland, the first wide-scale well curtailment to actually be carried out by the state.

Clear Springs Foods, Inc.

METRIC ET 2006 April to October



Annual Water Consumption = 4 million acre feet/year

(3 Trillion gallons; 5 Trillion liters)

Clear Springs Foods Water Call

Summary

- ESPA GW model used METRIC ET data
  - For model calibration
  - To select water rights to curtail

- No complaints from junior users about GW model or METRIC ET data

The Landsat Archive

Location: EROS Data Center Sioux Falls, SD

Size: ~ 3 million scenes

Span: July 1972 to present (thermal since 1984)

Cost to access: **NONE** (thank you, USGS)

Access: http://edcsns17.cr.usgs.gov/NewEarthExplorer/

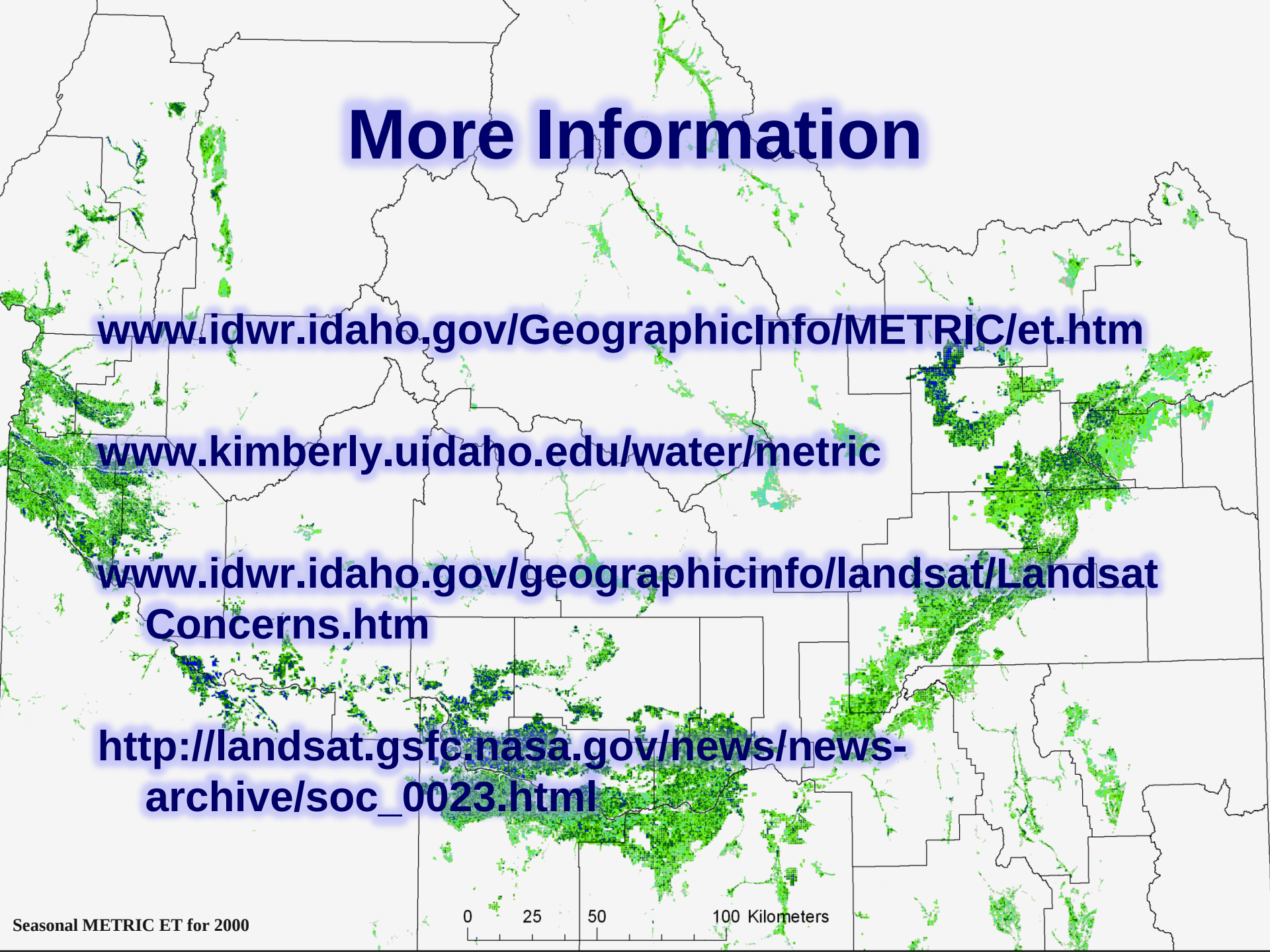
More Information

www.idwr.idaho.gov/GeographicInfo/METRIC/et.htm

www.kimberly.uidaho.edu/water/metric

www.idwr.idaho.gov/geographicinfo/landsat/LandsatConcerns.htm

http://landsat.gsfc.nasa.gov/news/news-archive/soc_0023.html



Seasonal METRIC ET for 2000