IISD Research on Extremes

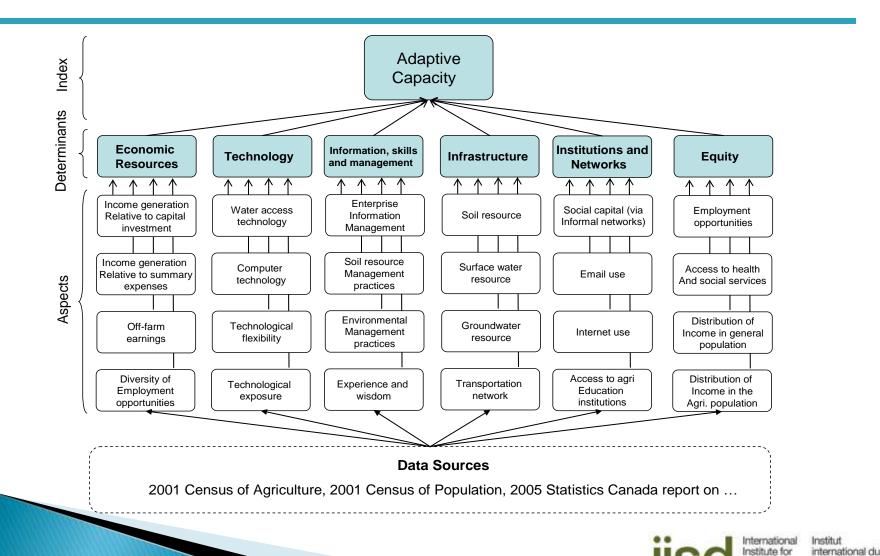


International Institute for Sustainable Development durable

Better living for all—sustainably

- Examines the resilience of prairie communities to past climate stresses as a means of strengthening adaptation to future climate change.
 - why some prairie agroecosystems are resilient to existing climate stress;
 - which existing policies and management practices promote or impede resilience to existing climate stress;
 - how climate resilience can be increased by strengthening adaptive capacity through targeted policy intervention; and
 - which prairie agroecosystems may be highly vulnerable to future climate change, and which policy interventions are most important in these regions.

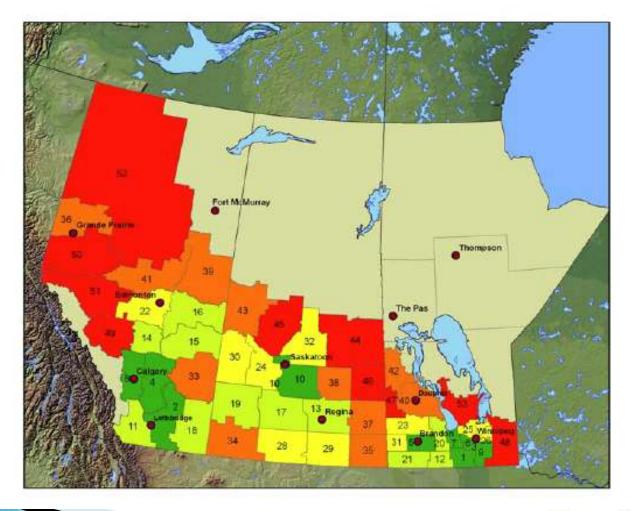




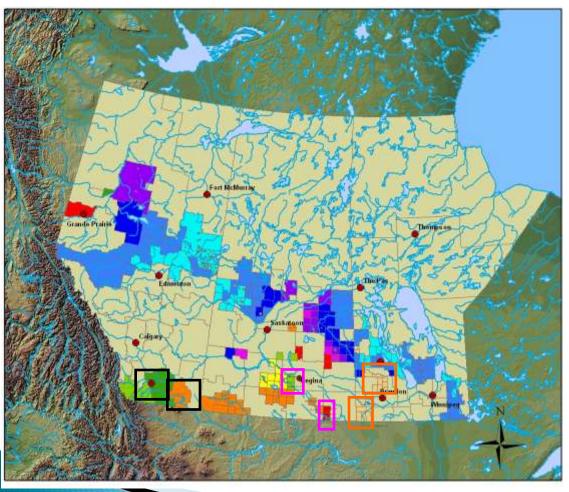
Sustainable

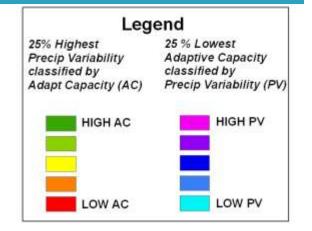
Development durable

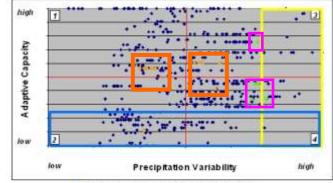
développement













Climate Change impacts on Manitoba Watersheds

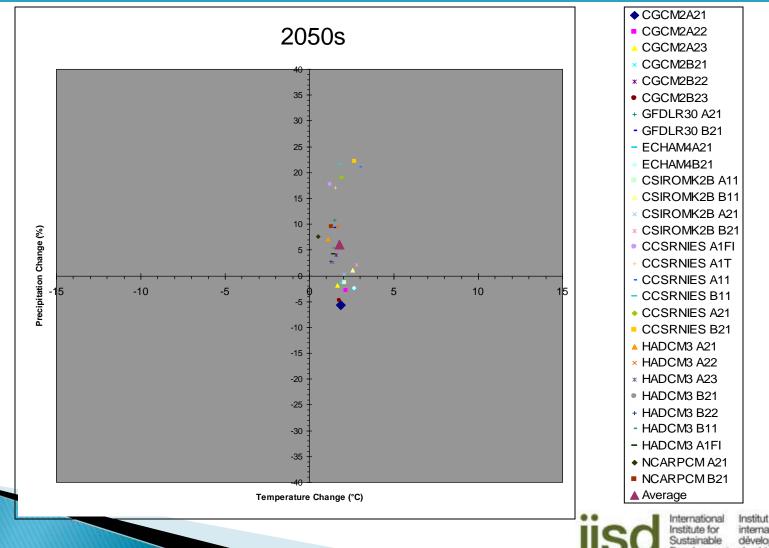
 Monthly water budgets calculated for 94 subwatersheds

<u>Inputs</u>	<u>Outputs</u>	
Temperature	Soil water storage	
Precipitation	Water surplus	
Snow accumulation	Water deficit	
Land use (including specific crops)	Runoff	
Soil texture	Domestic consumption	
Population	Livestock water requirements	
Livestock herd	Irrigation requirements	
Irrigated area		



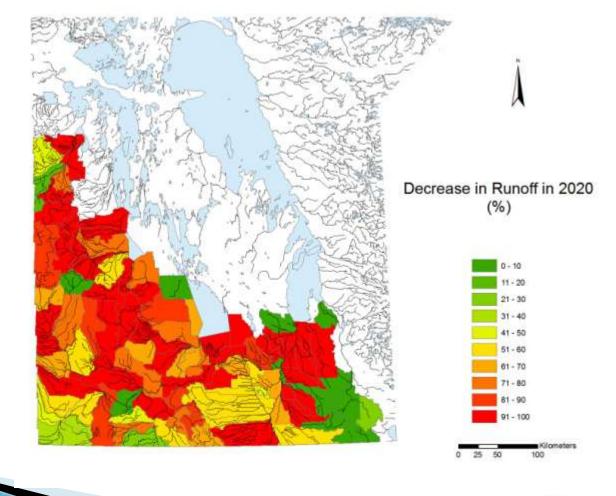


Climate Change impacts on Manitoba Watersheds



international du développement Development durable

Climate Change impacts on Manitoba Watersheds



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Prairie Regional Adaptation Collaborative

- Water theme
 - Policy synthesis of water demand and hydrologic studies

DEM theme

- Working on creation of framework to assess degree to which policies are adaptive and contribute to adaptive capacity
- Developing a manual for municipalities on increasing adaptive capacity



ACCESA

Mozambique

 Community based fire management





Rwanda

 Watershed ecosystem restoration

 Reducing vulnerability of hydroelectric sector



ACCESA

- Enhancing Resiliency to Drought in Kenya's Arid and Semi-Arid Regions
 - Better forecasting
 - Crop switching
 - Enhancing access to water
 - Policy engagement



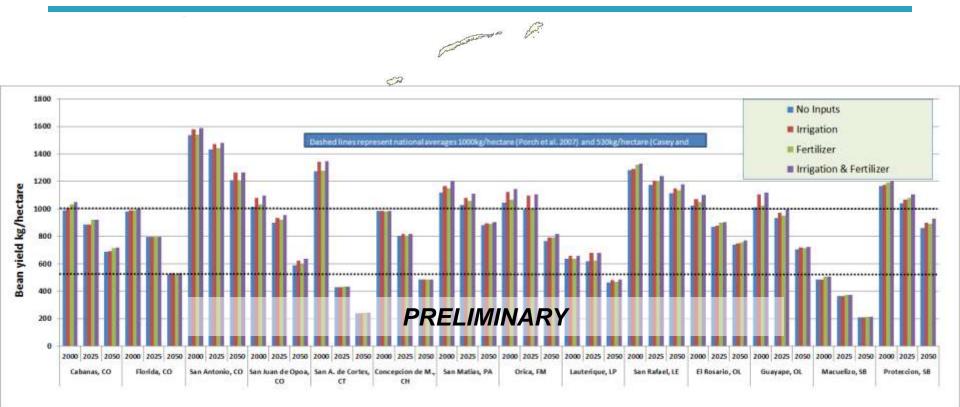
Climate Risk Management

- Climate Risk Management Technical Assistance Project
 - Climate risk = f (vulnerability, adaptive capacity)
 - Priority locations and sectors

Country	Sector	Country	Sector
Dominican Rep.	Watershed	Kenya	Urban water???
Honduras	Agriculture	Niger	Wetlands
Guatemala	???	Tanzania	????
Nicaragua	???	Uganda	Agriculture
Peru	Watershed???		



Climate Risk Management







Climate Risk Management

