

foothills

Healthy Landscapes Program

FRI AGM June 17, 2009 David Andison

# The FRI Healthy Landscape Program

Develop understanding, and tools that allow us to consider landscapes as fully integrated ecosystems, the health of which is the ultimate measure of sustainability.



## This is a BIG Idea! ...but not new.

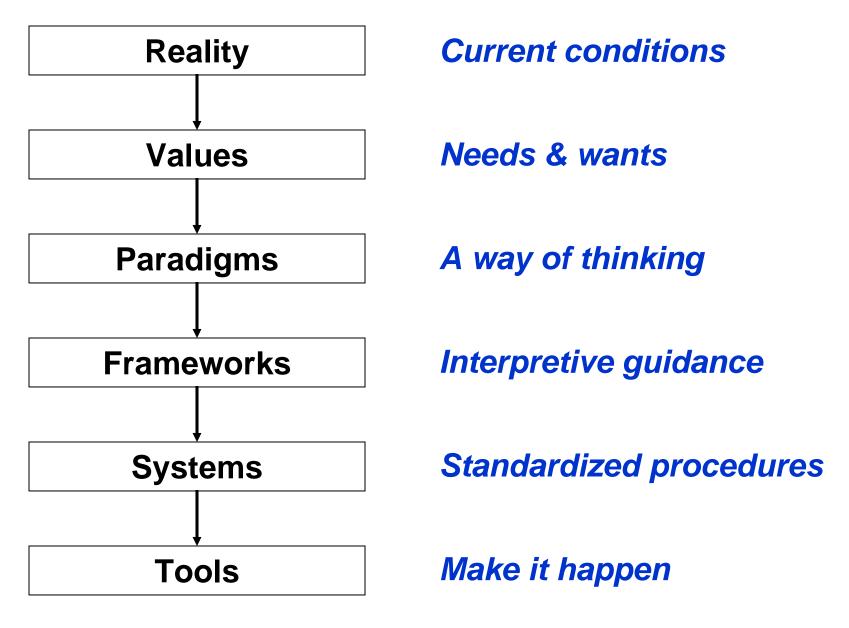
"To avoid national train wrecks, the Clinton administration will shift federal policy away from a single species approach to one that looks at entire ecosystems."

(James Babbit, '97)

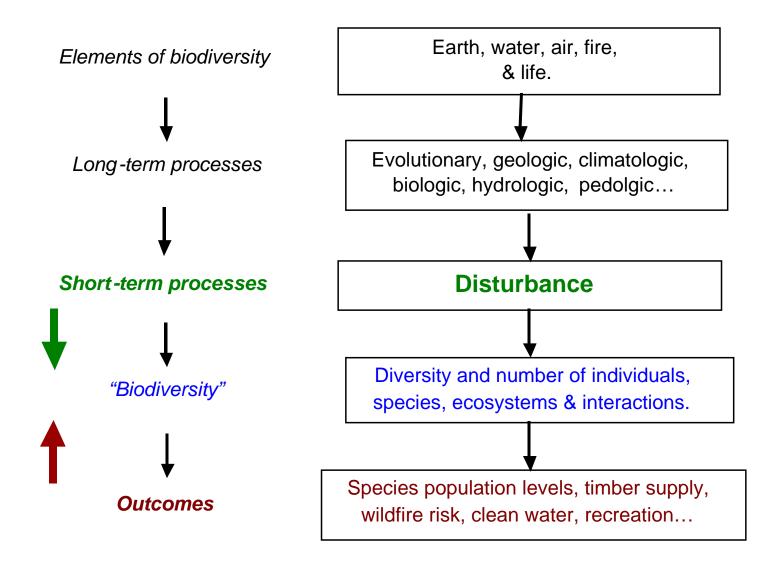
"..cogs and wheels..."

(Aldo Leopold, '49)

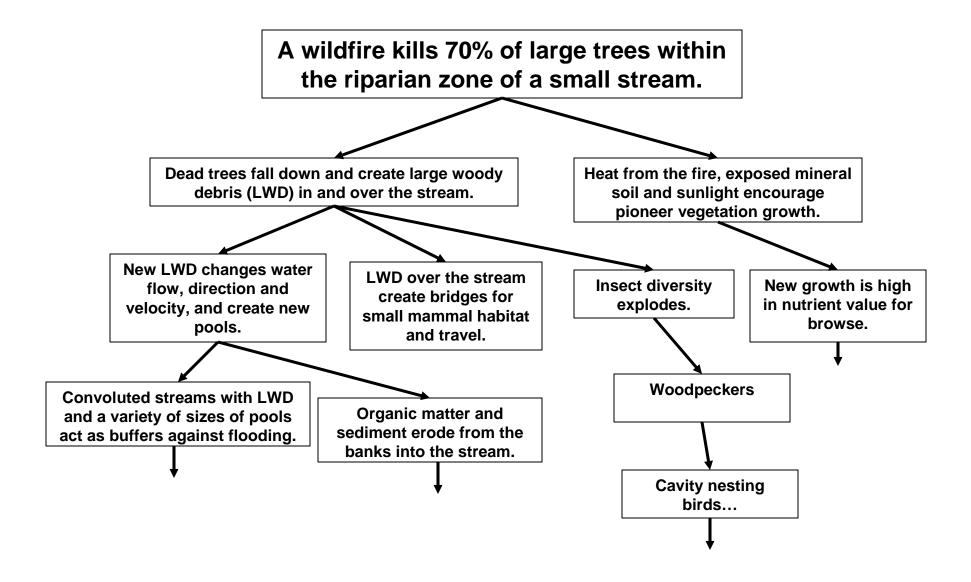
## Generalized Management Model

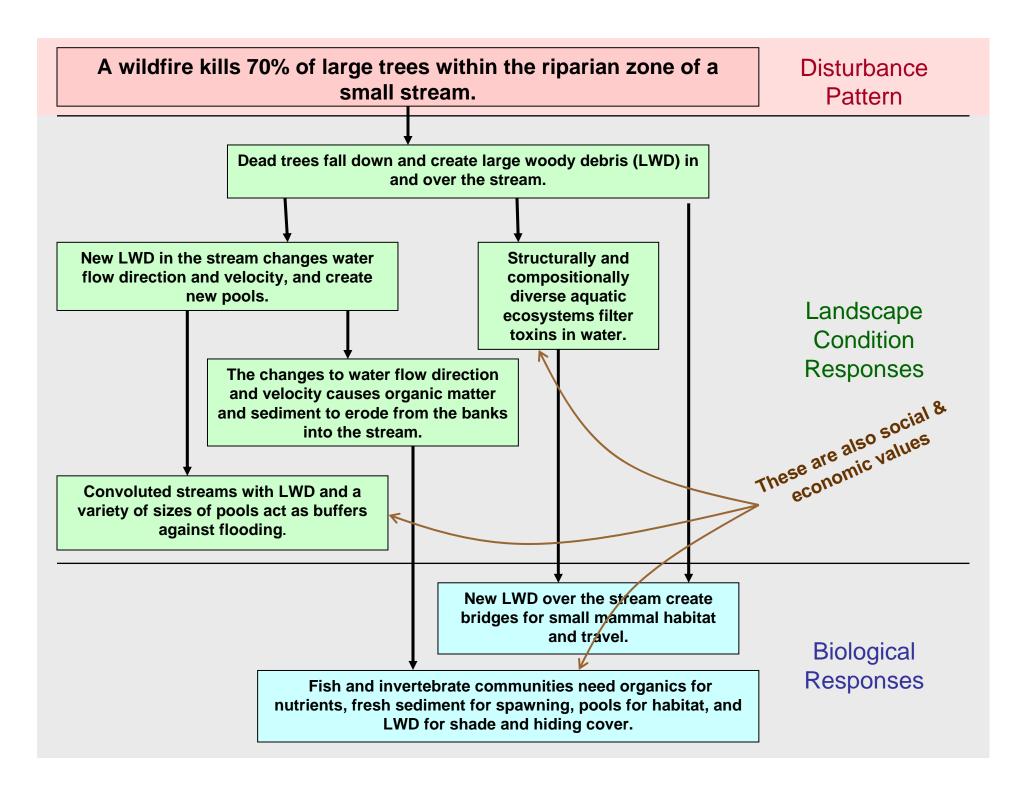


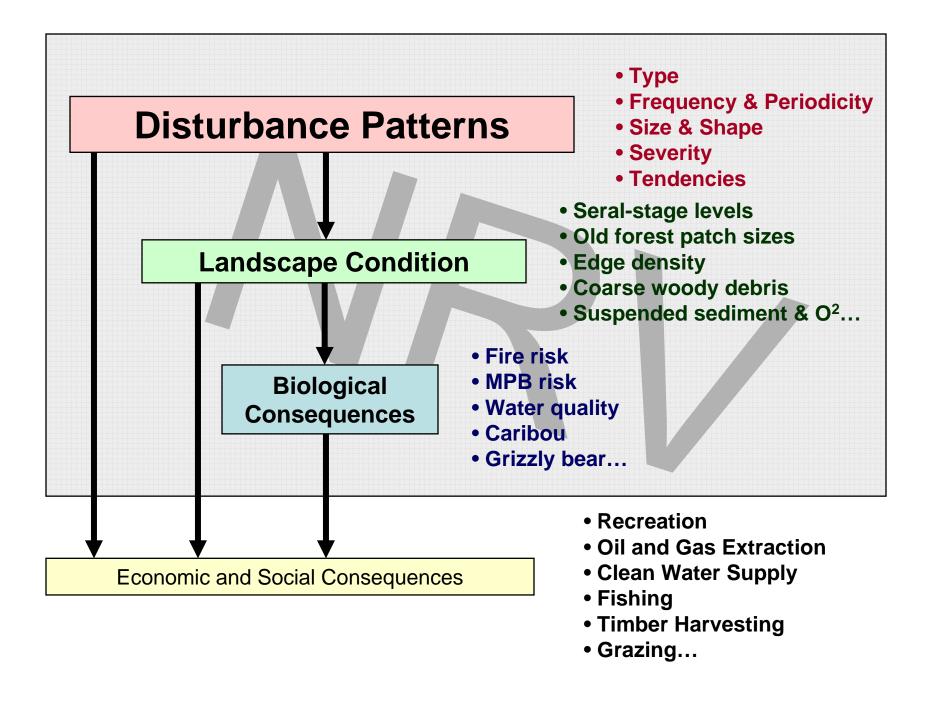
#### The Idea: How the Natural World Works.



## For Example;



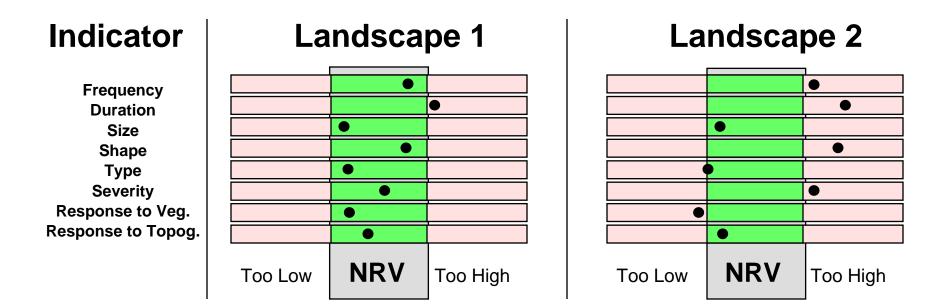




## **Assumptions:**

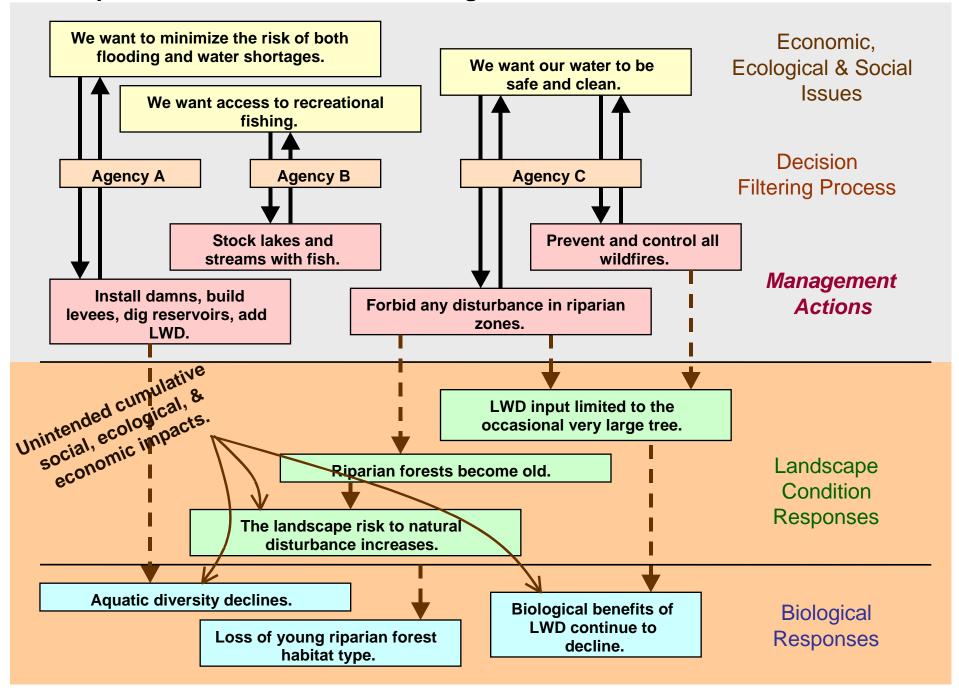
- Landscape health is the ultimate measure of sustainability.
- Disturbance-related patterns (as a proxy for landscape health) can be used as the universal goal of land management.
- A landscape not operating within the natural range is at risk.
- The further you venture beyond NRV, the greater the risk of loss of system health.
- We can differentiate a "healthy" from an "unhealthy" landscape via simple indicators.

#### Landscape 1 is "Healthier" than Landscape 2

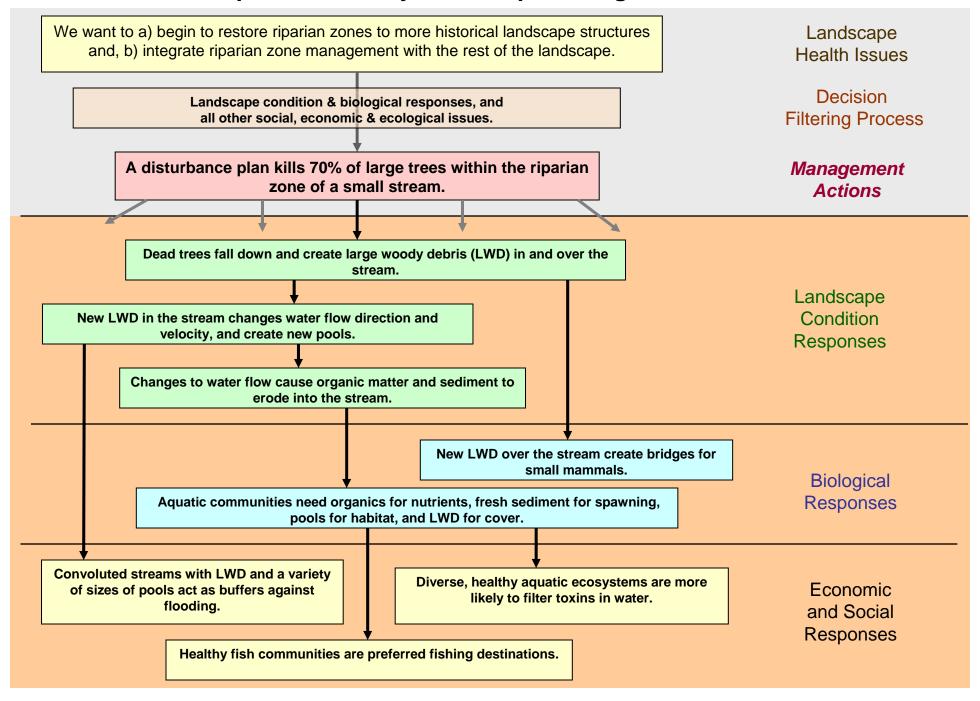


Green = Measurable Historical Range Red = Beyond Historical Range Black Dots = Current (point, range)

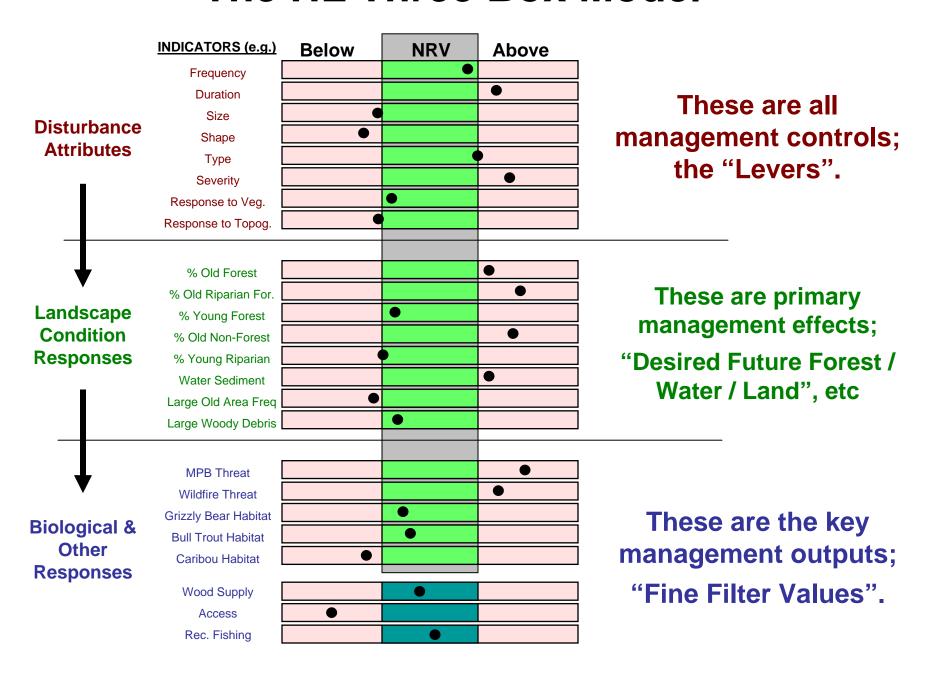
#### **Example of the Traditional Land Management Process.**

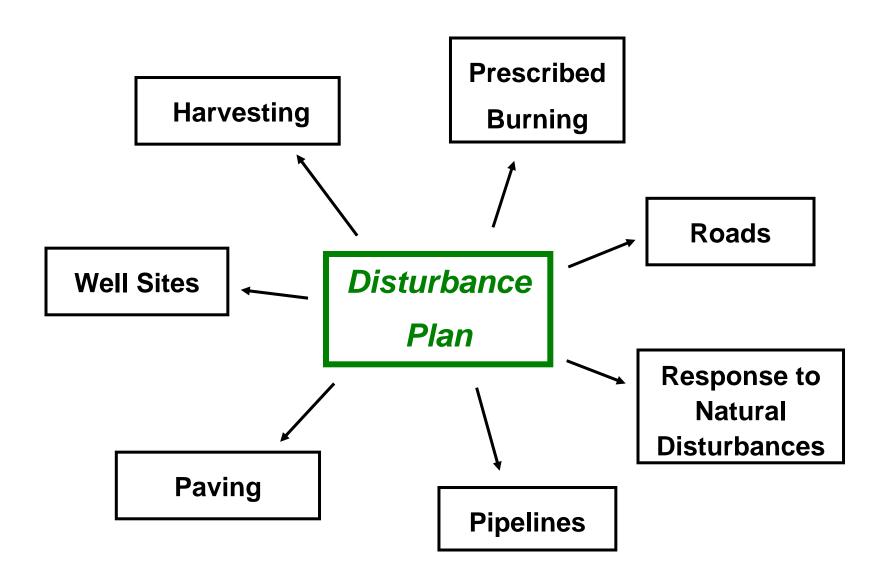


#### **Example of a Healthy Landscape Management Process.**



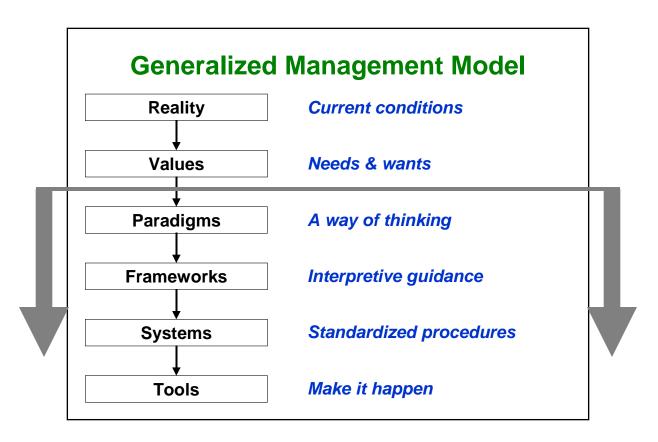
#### The HL Three Box Model





## Project #1:

#### Flesh it out.



D.W. Andison, L. Van Damme, D. Hebert, T. Moore, R. Bonar, S. Boutin, and M. Donnelly. 2009. The healthy landscape approach to land management. Foothills Research Institute Natural Disturbance program, Hinton, Alberta. January, 2009.

## Project #2:

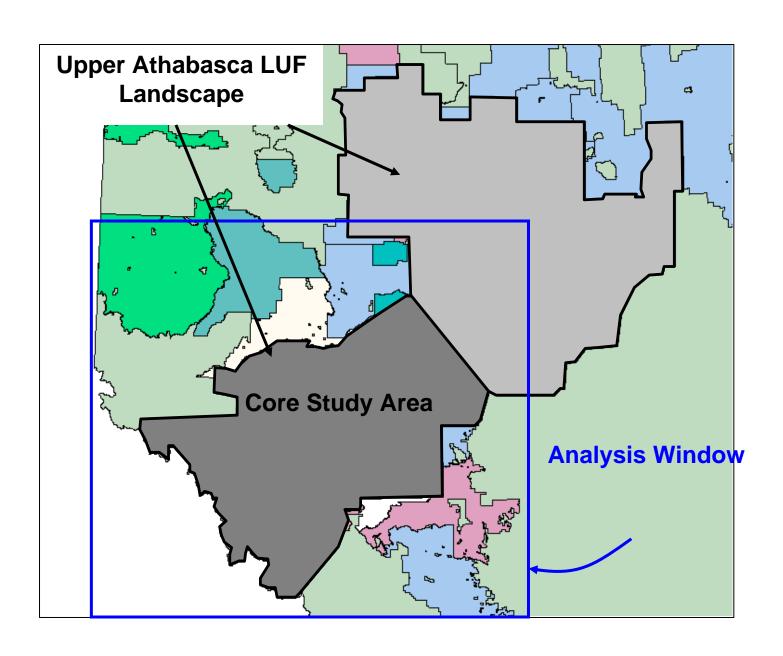
### Talk, share, & help interpret.

- CEMA and LARP
- WPAC's
- IMAGINE
- ...

#### Alberta's Land Use Framework

- Vision: "The peoples of Alberta work together to <u>respect</u> and care for the land as the foundation for our economic, environmental and social well-being."
- "Supported by a <u>land stewardship ethic</u>".
- One of 3 Desired Outcomes: <u>Healthy ecosystems and environment</u>.

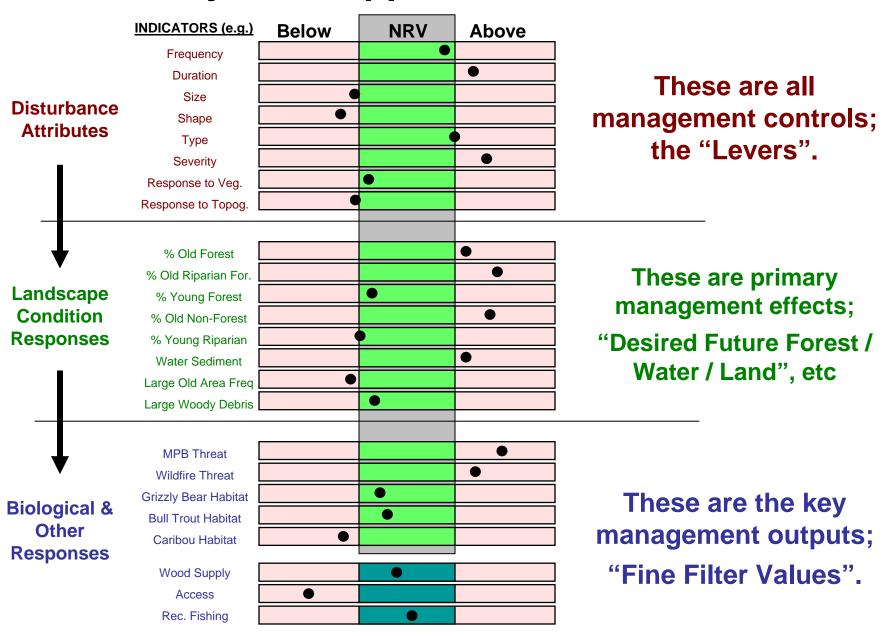
## **Project #3: The Upper Athabasca HL Project**



## May 27 HL Project Partnership Meeting

- Hinton Wood Products
- Alberta Newsprint Co.
- Jasper National Park
- Alberta SRD Forest Mgmt.
- Alberta SRS Land Use Planning group
- Foothills Forest Products
- Weyerhaeuser Company
- Talisman Energy
- Alberta Environment
- Sundre Forest Products
- Foothills Land Mgmt Forum
- Alberta Energy
- Coal Valley
- Shell
- Alberta SRD Forest Protection
- Alberta Tourism Parks and Recreation
- Alberta SRD Oil Sands Branch
- Miller Western Forest Products
- Foothills Research Institute
- (Canfor)
- So far....

#### **Future Projects: Support The Three Box Model**





Questions?

