



Users and Stakeholders Community Workshop

An Alberta Parks Perspective

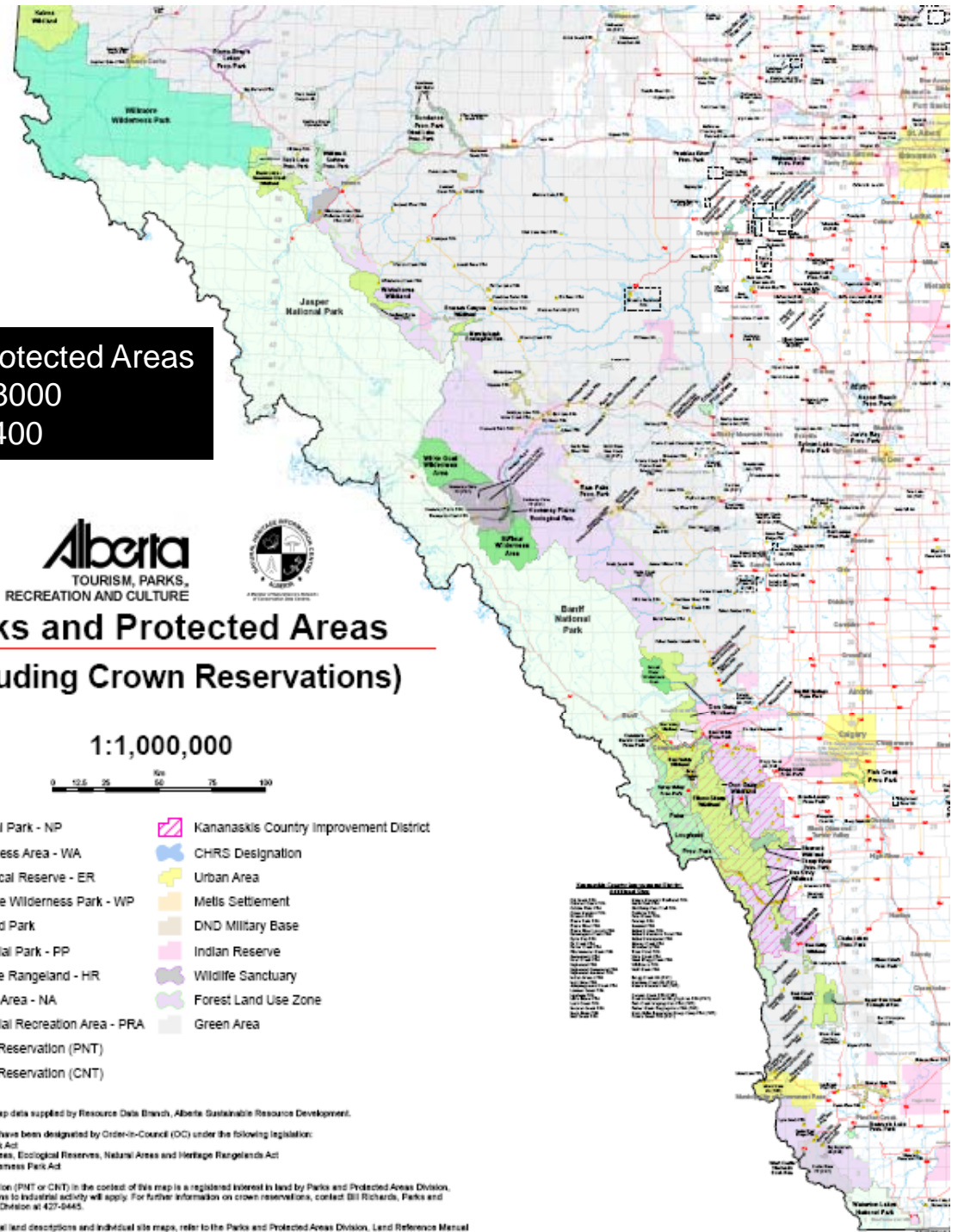


Why is IP3
Important to
Protected Areas
Management?

Major Headwaters in Protected Areas on Alberta's East Slopes

- Kakwa
- Smokey
- Wild Hay
- Athabasca
- Brazeau
- North Saskatchewan
- Clear Water
- Red Deer
- Ghost
- Bow
- Kananaskis
- Elbow
- Sheep
- Highwood
- Oldman
- Belly

27400 Sq Km of Protected Areas
 NP – 18000
 AB – 9400



Major Issues within Protected Areas

Protection and Management of (“Natural”) Hydrologic Regimes

- Protection of the natural integrity of headwater basins
- Conservation of native species – both aquatic and terrestrial
- Changes in flow regime
 - *Climate Change*
 - *Glacier recession*
 - *Changes to Vegetation structure*
- Permitting or emulating natural processes
 - *Flooding*
 - *Fire*
 - » The role of prescribed / natural fire
 - *Insect / disease*
 - » Mountain Pine Beetle



Public Safety, Recreation and Facility Management

Flooding

- *Facility placement and design*
- *Public safety – flood forecasting*

Water quality

- *Surface and Subsurface*

Water based recreation

- *Fishing*
- *Boating*
- *Aesthetic value of lakes and reservoirs*



Research / Monitoring

IP3 Research Basins - Marmot

Support for monitoring sites

Current monitoring of water quality associated with prescribed burns



Responsibility to Downstream Users

Water Supply

Quantity and quality of water for:

Communities (Calgary, Edmonton ...)

Agriculture

Industry



Recreation

Ski hills

Water based recreation

Future role of Reservoirs (many located in Protected Areas)

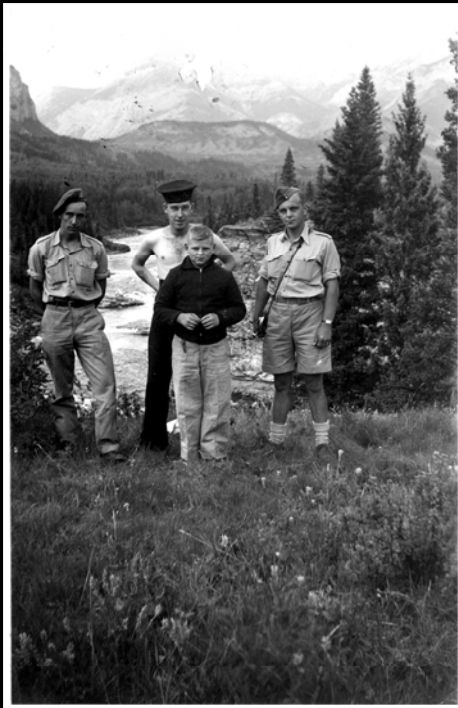
Changes in operating regimes from hydro-electric generation to water supply reservoirs?

Kananaskis

Barrier

Spray

Minnewanka



How can IP3 contribute to Parks Management

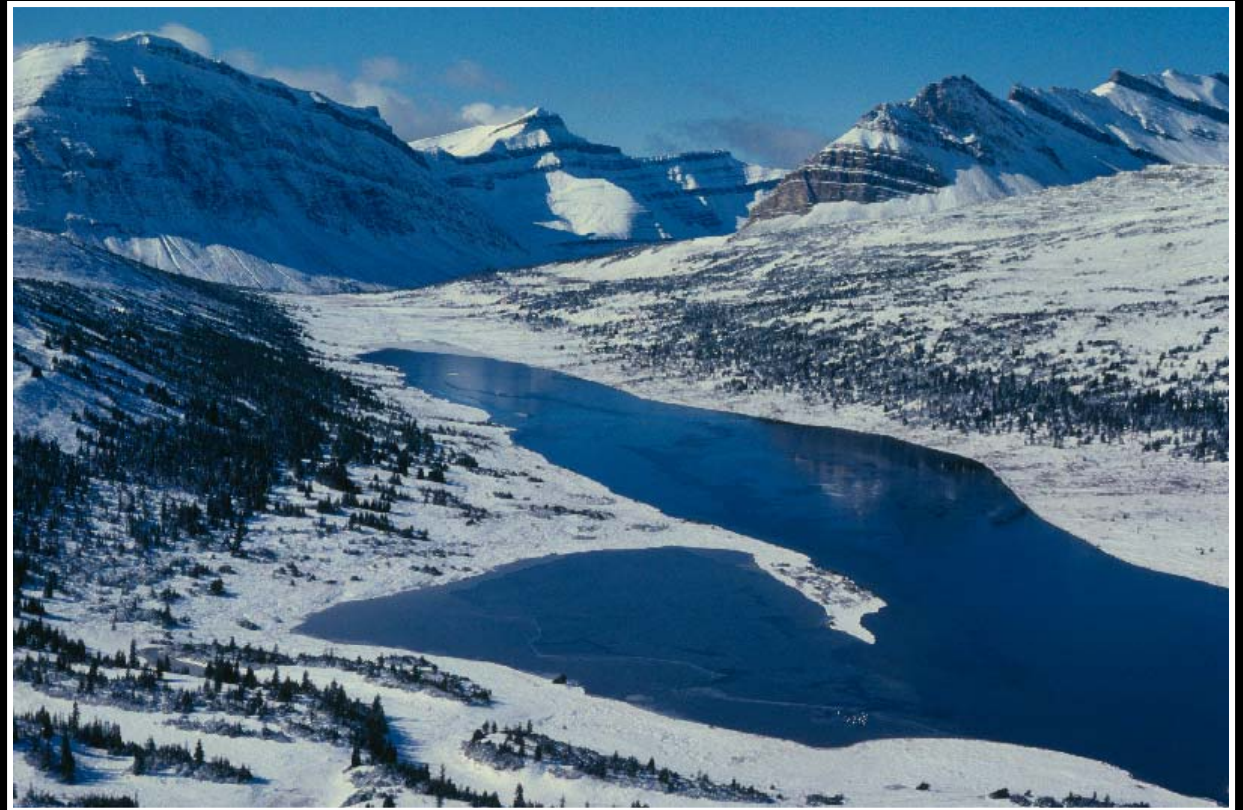
Improved understanding and monitoring of existing conditions.

Improved prediction (forecasting) of water flows.

Modeling predicted outcomes of landscape change.

Modeling predicted outcomes of climatic change.

Providing useable data and models to land and resource managers.



Contact Information

For research and monitoring **in the northern parks** of Canada:

Dr. Wanli Wu (wanli.wu@pc.gc.ca)
Phone: (204) 984-8276
Fax: (204) 983-0031

Dr. Chantal Ouimet (chantal.ouimet@pc.gc.ca)
Phone: (204) 984-3664

Western and Northern Service Centre, Winnipeg, Parks Canada

For research and monitoring **in the Rocky Mountains national parks** of Canada:

Ms. Shelley Humphries M.Sc.
Lake Louise, Yoho and Kootenay Field Unit, Parks Canada
Phone: (250) 343-6108
Fax: (250) 343-6330

For research and monitoring **in Alberta Parks**:

Mr. Steve Donelon M.Sc. (steve.donelon@gov.ab.ca)
Kananaskis Country
Phone: (403) 678-5508
Fax: (403) 678-5505