

Harlequin Duck Ecology in Jasper National Park

Update

FRI Harlequin Duck Workshop 25 Jun 2014 Hinton, AB

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Historical context

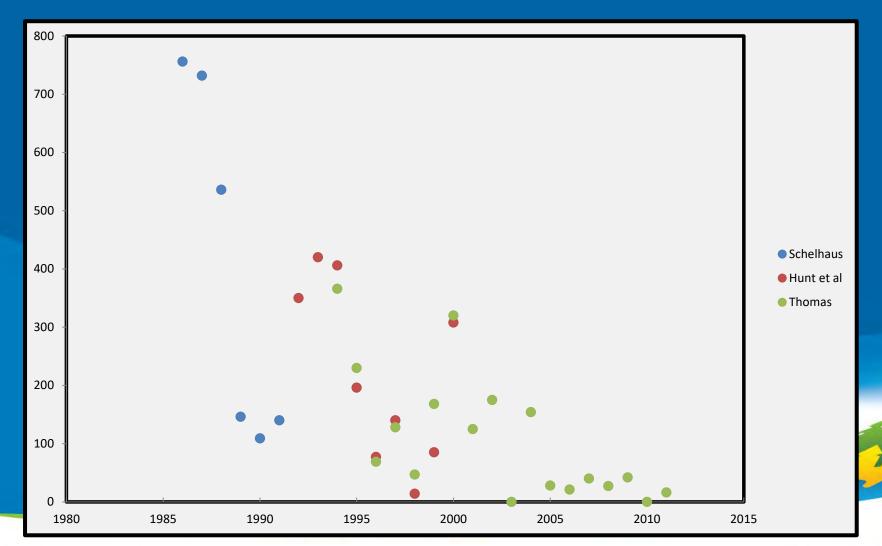
- Hunt, W. A. 1998. The ecology of harlequin ducks, Histrionicus histrionicus, breeding in Jasper National Park, Canada Simon Fraser University, Burnaby, British Columbia, Canada.
 - 87% of encounters between. Ducks and Rafts led to displacement
- 1999 Maligne River closed to in-stream use, a decision supported by Appeals court ruling
 - Reconsider decision with compelling, publicly supported scientific evidence to the contrary
- LeBourdais, S. V., R. C. Ydenberg, and D. Esler. 2009. Fish and harlequin ducks compete on breeding streams. Canadian Journal of Zoology 87:31-40.
 - Ducks displaced by fish that change invertebrate behaviour
- JNPPROA have engaged Dr. Ydenberg to initiate study in Jasper looking at invert abundance in Maligne R.
 - Ongoing
 - Parks Canada has proposed a study design that would satisfy the need for scientific knowledge contributing to reconsidering the closure







MkOntotal harlequin usage (duck days)



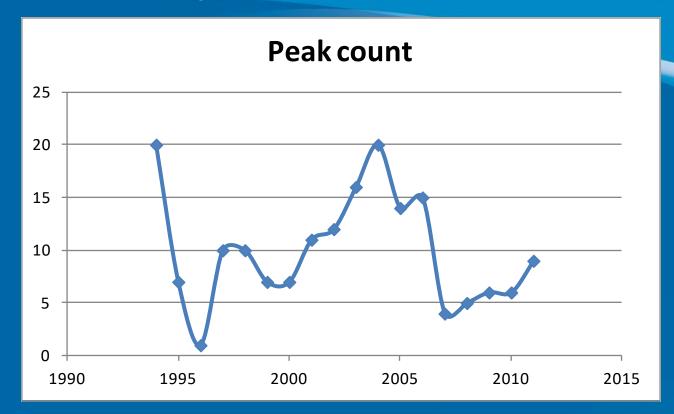








Maximum Single Observation HADU Count in the Maligne Valley 1994 to 2011



Data from Schelhaus with contributions from Ruddy.





Current Situation

- Parks Canada does not formally survey HADU populations in the park
 - We note observations
- Ydenberg study is still ongoing, with no activities in park planned
- Mid-Maligne River remains closed to in-stream use
- JNP undertaking a review of our ecological and visitation environment in the Maligne Valley
- JNP would be open to participating in studies that consider the regional context of HADU ecology
 - No \$



