

**Study Questions and Guide**  
**Hunter & Gibbs Ch. 10 –Invasive Exotics**  
**Conservation Biology**  
**Spring 2009**

1. What is the main factor that has increased species immigration over the past ten thousand years? What has been the general trend in species immigration recently?
2. Know the main avenues of human-related species movements (the book lists five). Be able to discuss each and know the evidence for each ones impact (when given). Think about reasons behind each of these means of species movement and the costs that might be involved with decreasing species movements.
3. The text lists five major types of effects from invasive exotics. Know each and be able to discuss them in some detail. Think about how each relates to the basic biology we learned earlier in the course. For instance, discuss newly introduced competitors and the niche and competition concepts we learned earlier.
4. What is the "tens rule"? What sorts of factors contribute to a successful invasion? Why are island and disturbed system invasions usually more successful? Relate your answer to diversity of the invaded community and to general principles of community and evolutionary ecology.
5. In the section labeled "Irony" there are a number of interesting questions. Think about them and be prepared to discuss them in class.
6. Finally, the case study of New Zealand provides a number of excellent illustrations (unfortunately) of what was discussed previously in the chapter. We'll return to New Zealand later in the course.

**Terms:** exotic species (introduced, non-native, non-indigenous species), invasive (invasive exotic) species (p 206), genetically modified (engineered) organism (p216), allelopathy (p 218).