

Invasive Species

Written on 3/16/2016

For competitors to complete: Name(s): Team:	For event supervisor to complete: Part One: /25 Part Two: /50 Part Three: /25	Total Score: /100 Place: /
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The exam should take 50 minutes, and is divided into three sections: the first being identification, the second containing questions about the identified species, and the third being miscellaneous questions. There is an optional tiebreaker at the end.

Part One: Species Identification

In the powerpoint, you will be shown 25 species on the official list. You will have 30 seconds to identify each specie by common and scientific name. Be sure to hang on to the answers, as you will need them for part two. Each correct response is worth one point. This section should take 12.5 minutes.

- i. _____
- ii. _____
- iii. _____
- iv. _____
- v. _____
- vi. _____
- vii. _____
- viii. _____
- ix. _____
- x. _____
- xi. _____
- xii. _____
- xiii. _____
- xiv. _____
- xv. _____
- xvi. _____
- xvii. _____
- xviii. _____
- xix. _____
- xx. _____
- xxi. _____
- xxii. _____
- xxiii. _____
- xxiv. _____
- xxv. _____

Part Two: Species Questions

This section asks questions about the species shown in the slideshow for part one. So question one is asking about the first species shown, and from there on, each question number asks about its respective species. Each correct response is worth two points. At this point, you should have 37.5 minutes remaining to finish this exam.

- i. Where was this species first discovered in the us? _____
- ii. About how many seeds does this species produce annually? _____
- iii. Name a state affected by this species. _____
- iv. What was the method of introduction for this species? _____
- v. What damage does this species do? _____
- vi. What division of Asia does this species reside (North, South, etc.)? _____
- vii. How many generations of this species occur during a year? _____
- viii. How does this species spread? _____
- ix. Who is the predator of this species? _____
- x. What are two ways this plant came to the U.S.? _____
- xi. Fill in the blank: Economic costs result from reproductive losses, damaged wool and decreased _____.
- xii. What is the native country of this species? _____
- xiii. How does this species spread? _____
- xiv. How many instars does this species go through? ____
- xv. Was a contaminant in what other carp species? _____
- xvi. What year and state was this species first found? Year: _____ State: _____
- xvii. Fill in the blank: This species is commonly known as the "Vine of the _____."
- xviii. What is the genus of this species?

- xix. What season of the year 1987 was this species introduced to America? _____
- xx. What is the common name of the biological control of this species? _____
- xxi. How many states does this invasive plant infect? _____
- xxii. True or False: The native range of this species is the east coast of Africa. (Circle one)
- xxiii. What was the method of introduction to the U.S. for this species? _____
- xxiv. What is it called when this species attaches itself to native forms of this species? _____
- xxv. What county in Florida was this invasive plant first discovered in? _____ County

Part Three: Miscellaneous Questions

The final 25 questions of this exam are worth one point each for every correct response, and are questions focused on knowledge of characteristics of each specie, as well as general questions about invasive species as a whole. Unless otherwise mentioned, identify species by their common names.

- i. How many introduced species are likely to survive, and become invasive? _____%
- ii. How many native species are threatened or extinct due to invasives? _____%
- iii. A species found within its native range is a: (Circle one)
 - i. Feral Species
 - ii. Subsidized Species
 - iii. Indigenous Species
 - iv. Invasive Species
- iv. What are the two modes for invasion into ecosystems? _____ and _____
- v. Fill in the blank: Invasive Species are a major threat to _____.
- vi. What are the four main threats of invasive species?

- vii. What is the term for invading species interacting with each other to generate a problem where either species alone would be harmless? _____
- viii. In what month of the invasion process does the ability to control the species stop? _____
- ix. Give a brief description of cultural control.

- x. What is often the most effective control method? _____
- xi. Are risky or non-risky methods of control used first in this method? _____
- xii. What is a likely side effect of chemical control? _____
- xiii. What national plan was created for the spread of invasive mussels? _____
- xiv. What law prevents the transportation of invasive species by humans? _____
- xv. About how much do invasive species cost the U.S./year? \$ _____
- xvi. Give the scientific name of the invasive specie that was first discovered in the U.S. in Louisiana during the 1930s. _____
- xvii. In what year was the species discovered in Massachusetts, who is native to Europe? _____
- xviii. What species was imported as a biological control agent? _____
- xix. What is the native range of *Imperata cylindrica*? _____
- xx. Name the four asian carps by their common names.

- xxi. Which species is native to the river drainage of Ukraine? _____
- xxii. Name the two countries that *Triadica sebifera* is native to. _____ and _____
- xxiii. Name the plant similar to Kudzu.

- xxiv. Name the two aquatic plants native to Australia. _____
- xxv. What is the main form of introduction for plant species? _____

Tiebreaker 1

What are the key factors of success of controlling invasive species?

Tiebreaker 2 is the first question answered correctly.

Tiebreaker 3 is the most correct on part one.

Tiebreaker 4 is the most correct on part three.