

## 2001 Quiz Bowl Questions

### Weed Science

Name one of the 2 top crops in the United States with the highest herbicide use by total pounds.

**Corn or soybeans**

### Entomology

What is the outermost layer of the insect integument called?

**Epicuticle**

### Soil Science

This micronutrient is important in alfalfa production. A deficiency results in yellow to reddish-yellow discoloration of the upper leaflets.

**Boron**

### Plant Pathology

What are the three sides of the disease triangle?

**Environment, pathogen, host**

### Miscellaneous

What is the bar matric potential of a field at wilting point?

**-15 bars**

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### Weed Science

What do the initials GMO stand for and give an example of an input trait present in some crops?

**genetically modified organisms; insect resistance**

### Entomology

What is the protein responsible for the hardening of the insect integument?

**sclerotin**

### Soil Science

What is the soil bacterium with a growth habit similar to fungi?

**Actinomycetes**

### Plant Pathology

What does Bt stand for?

**Bacillus thuringiensis**

### Miscellaneous

What commercial crop has the most amount of land devoted to its production?

**Wheat**

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### Weed Science

Name two visible symptoms on broadleaf crops that occur when a PGR herbicide is applied.  
**Epinasty, leaf malformation**

**Entomology**

What is the name of the hardened and leathery front wings of a grasshopper?  
**tegmina**

**Soil Science**

Who is the father of soil conservation?  
**Hugh H. Bennett**

**Plant Pathology**

What disease is sweeping through the California vineyards?  
**Pierce's disease**

**Miscellaneous**

At what temperature centigrade is water most dense?  
**4 °C**

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**Weed Science**

Name two visible symptoms on broadleaf crops that occur when a PGR herbicide is applied.  
**Epinasty, leaf malformation**

**Entomology**

Subfamily names in the animal kingdom always end with the suffix what?  
**-idea**

**Soil Science**

What is loess?  
**Wind blown silt**

**Plant Pathology**

What disease is transmitted by Polymyxa betae and is caused by Beet Necrotic Yellow Vein Virus in sugar beets?  
**Rhizomania**

**Miscellaneous**

What is the term given to the attachment point of a bean to the pod?  
**Hilum**

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**Weed Science**

Name the herbicide mode of action that induces formation of oxygen compounds that destroy plant tissue by rupturing plant cell membranes.  
**cell membrane disrupters**

**Entomology**

What is the main purpose of the insect thorax?

**locomotion**

**Soil Science**

Give the horizon designation for a soil profile containing a fragipan.

**Bx**

**Plant Pathology**

What is the best control of Bacterial blight in soybeans?

**Disease Resistance**

**Miscellaneous**

Name three major cloud types.

**Cirrus, Cumulus, Stratus**

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**Weed Science**

Name the herbicide mode of action that prevents formation of molecules essential for integrity of cell membranes and new cell growth.

**lipid synthesis inhibitors**

**Entomology**

Insects that feed primarily on animals are said to be this?

**zoophagous**

**Soil Science**

Name the soil order given to a soil formed in organic materials.

**Histosol**

**Plant Pathology**

Name a water mold disease in sugarbeets that can not be controlled with crop rotation.

**Aphanomyces, Pythium, Rhizomania**

**Miscellaneous**

What time of day does a full moon come up?

**Sunset**

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**Weed Science**

Name the herbicide mode of action that affects multiple sites of action.

**PGR**

### Entomology

An insect leg that is adapted for digging is called a) curosoial, **b) fossorial**, c) raptorial or d) saltatorial?

### Plant Pathology

What is the condition where the host is completely free from attack or injury by an infectious agent?

**Immunity**

### Miscellaneous

Plants that are cytoplasmic male sterile do not bear seed unless pollinated by:

a) a plant with the restorer genes, b) a plant with dominate reproductive parts, **c) another male fertile plant**, or d) their own pollen.

### Soil Science

Hydrated ion oxides give soils what color: brown, red, grey or yellow?

**Yellow**

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### Plant Pathology

What is the spread, transport, or transfer of inoculum called?

**Dissemination**

### Soil Science

Higher soil pH is favored by: a) addition of sulfur, b) high annual rainfall, **c) parent material rich in calcium and magnesium**, or d) use of ammonium (N) fertilizers?

### Weed Science

Name one of the 2 top crops in the United States with the highest herbicide use by total pounds.

**Corn, soybeans**

### Entomology

In the system of hierarchical classification, the taxonomic category that belongs between Order and Phylum is what?

**Class**

### Miscellaneous

Which of the following is associated with monocot leaves only: **a) auricles**, b) blade, c) petiole, d) stipules?

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### Weed Science

What do the initials GMO stand for and give an example of an input trait present in some crops?  
**genetically modified organisms; insect resistance**

**Entomology**

Another term for the adult stage of an insect is known as what?

**imago**

**Soil Science**

The Cation Exchange Capacity of a soil is greater when: a) clay concentration is less, **b) organic matter**

**Plant Pathology**

What is the kingdom that contains organisms without organized nuclei?

**Prokaryotes**

**Miscellaneous**

Based on a given plant, which of the following would be the largest?

a) cell, b) blade, c) protoplast, or **d) tissue**

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**Weed Science**

The surfactant type most often used in agricultural sprays are: a) RoundUp UltraMax, b) Accent Gold, c) Ionic, or **d) Nonionic**.

**Entomology**

Mosquitoes have what type of mouth part?

**piercing-sucking**

**Soil Science**

The grass species best adapted to wet soil conditions is: a) orchard grass, **b) reed canary grass**, c) smooth brome grass, or d) tall fescue.

**Miscellaneous**

Which of the following is a forb? a) western wheat grass, b) American licorice, **c) goldenrod**, or d) river birch

**Plant Pathology**

Rhizoctonia root rot and stem rot occur under what environmental conditions?

**Cool and wet**

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**Miscellaneous**

Scarification of hard seed generally shortens the time required for what to occur?

**Germination**

**Weed Science**

Name the herbicide mode of action that induces formation of oxygen compounds that destroy plant tissue by rupturing plant cell membranes.

**cell membrane disrupters**

**Entomology**

What is the estimated number of insect species identified?

**1 million**

**Plant Pathology**

What is a non-chromosomal piece of DNA that is found in bacteria that may be moved between cells during conjugation?

**Plasmid**

**Soil Science**

What order of soils is formed under forest vegetation, highly weathered, acidic, and lighter in color?

**Alfisols**