

NEBRASKA CERTIFIED CROP ADVISOR PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

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THE FULL VERSION STUDY GUIDE**

<https://necertifiedcropadvisor.examzify.com>



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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which of the following is an adjuvant designed to reduce pesticide drift?**
 - A. Surfactant
 - B. Spray Modifier
 - C. Emulsifier
 - D. Sticking agent

- 2. Which of the following is a limitation of a crop rotation over a monoculture system?**
 - A. Soil health improvement
 - B. More Equipment Needed
 - C. Reduced pest diversity
 - D. Lower nutrient cycling

- 3. How is phosphorus primarily transported from fields?**
 - A. Leaching
 - B. Runoff
 - C. Evaporation
 - D. Infiltration

- 4. What type of erosion is characterized by the removal of a thin layer of soil?**
 - A. Rill Erosion
 - B. Sheet Erosion
 - C. Gully Erosion
 - D. Wind Erosion

- 5. Which of the following is a characteristic of a well-designed field trial?**
 - A. Randomized plots
 - B. Single strips
 - C. Replicated strips
 - D. Non-replicated trials

- 6. Which of the following anions is most likely to leach?**
 - A. SO_4
 - B. Cl
 - C. NO_3^-
 - D. PO_4

7. If the value of a crop is \$31 per bushel and a production practice costs \$11.50 per acre, which of the following yield increases would make the production profitable?
- A. 2 Bu/Acre
 - B. 3 Bu/Acre
 - C. 4 Bu/Acre
 - D. 5 Bu/Acre
8. What factor primarily hinders seedling emergence?
- A. Root disease
 - B. Surface crusting
 - C. Soil acidity
 - D. Excessive moisture
9. Which pesticide characteristic would likely lead to the most groundwater pollution?
- A. High Absorption by Colloids
 - B. Little Absorption by Colloids
 - C. High Volatility
 - D. Low Water Solubility
10. Which type of acidity is most important in determining the required lime rate?
- A. Active
 - B. Residual
 - C. Potential
 - D. Saline

Answers

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1. B
2. B
3. B
4. B
5. C
6. C
7. C
8. B
9. B
10. B

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Explanations

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1. Which of the following is an adjuvant designed to reduce pesticide drift?

- A. Surfactant
- B. Spray Modifier**
- C. Emulsifier
- D. Sticking agent

The correct choice is a spray modifier, which is specifically designed to enhance pesticide performance and minimize drift during application. Spray modifiers can alter the physical properties of the pesticide solution, which helps in producing larger droplets that are less susceptible to drifting away from the target area due to wind. By tailoring the droplet size and improving the uniformity of application, spray modifiers significantly contribute to reducing pesticide drift, thereby enhancing both coverage and efficacy while also protecting nearby sensitive areas from unintended pesticide exposure. Surfactants, emulsifiers, and sticking agents have their own unique functions in formulations, such as improving wetting properties or helping to suspend ingredients in a solution. However, they are not specifically focused on reducing drift. In contrast, spray modifiers directly target the physical behavior of the spray plume and play a crucial role in drift management during pesticide applications.

2. Which of the following is a limitation of a crop rotation over a monoculture system?

- A. Soil health improvement
- B. More Equipment Needed**
- C. Reduced pest diversity
- D. Lower nutrient cycling

Crop rotation can be a beneficial practice for enhancing soil health, pest management, and nutrient cycling. However, a limitation of implementing a crop rotation system compared to a monoculture system lies in the potential need for more equipment. When a farmer shifts from monoculture—growing a single crop annually—to rotation, they may need to diversify their equipment to handle different types of crops. Different crops can require varying planting and harvesting techniques, specific tools for application of fertilizers or pest controls, and distinct machinery configurations. Consequently, this increased demand for multiple types of equipment can lead to higher initial investments and increased operational complexity, which is a noteworthy limitation in adopting crop rotation. In contrast, a monoculture system can simplify machinery needs, as all operations are tailored to the same crop type year after year, thereby making the farming processes more streamlined and potentially less costly in terms of equipment.

3. How is phosphorus primarily transported from fields?

- A. Leaching
- B. Runoff**
- C. Evaporation
- D. Infiltration

Phosphorus is primarily transported from fields through runoff. This occurs when excess water from precipitation or irrigation carries phosphorus particles and dissolved phosphorus from the soil into nearby water bodies. Unlike nitrogen, which can be leached out of the soil and into groundwater, phosphorus tends to bind closely to soil particles. Therefore, when rainfall or irrigation creates surface runoff, this water can pick up phosphorus along with sediment and transport it to streams, rivers, and lakes. In contrast, leaching refers to the downward movement of soluble substances through the soil profile, which is less significant for phosphorus due to its affinity for soil particles. Evaporation pertains to the process of water turning into vapor and does not play a role in phosphorus transport. Infiltration involves the movement of water into the soil and while it can influence nutrient movement within the soil, it does not directly lead to the transport of phosphorus away from fields. Hence, runoff is the key mechanism for phosphorus loss from agricultural land.

4. What type of erosion is characterized by the removal of a thin layer of soil?

- A. Rill Erosion
- B. Sheet Erosion**
- C. Gully Erosion
- D. Wind Erosion

Sheet erosion is characterized by the removal of a thin layer of soil across a wide area, typically occurring uniformly over the surface. This process is often stimulated by rainfall, where raindrop impact dislodges soil particles, which are then washed away by overland flow. Unlike other forms of erosion, sheet erosion does not create noticeable channels or grooves in the soil surface; instead, it results in a relatively even loss of soil that can significantly diminish the topsoil layer, impacting soil fertility and its overall structure. The nature of sheet erosion makes it particularly insidious, as it can go unnoticed until significant soil depth has been lost. This erosion type highlights the importance of managing surface water runoff and implementing soil conservation practices to protect valuable topsoil.

5. Which of the following is a characteristic of a well-designed field trial?

- A. Randomized plots
- B. Single strips
- C. Replicated strips**
- D. Non-replicated trials

A characteristic of a well-designed field trial is that it includes replicated strips. Replication is crucial in experimental design because it minimizes the effects of variability in environmental conditions and allows for more reliable statistical analysis. By having multiple plots that are treated in the same way, researchers can better ascertain the effects of treatment and reduce the likelihood that results are due to random chance or external factors. Replication helps to increase the validity and reliability of the results. If the trial only includes a single strip of treatment, it may not account for variability within the field, and it could lead to skewed results that do not accurately reflect the treatment's performance. Non-replicated trials could also result in misleading conclusions that cannot be confidently generalized to the broader population. Thus, incorporating replication in field trials improves the robustness of the findings, making it a key characteristic of effective experimental design.

6. Which of the following anions is most likely to leach?

- A. SO₄
- B. Cl
- C. NO₃-**
- D. PO₄

Nitrate (NO₃-) is highly soluble in water, which makes it particularly susceptible to leaching. This characteristic is a result of its negative charge, which prevents binding to soil particles that typically retain other nutrients or ions. In well-drained soils or during periods of heavy rainfall, nitrate can be easily washed away from the root zone of plants, potentially leading to water quality issues in nearby waterways. While sulfate (SO₄) and chloride (Cl) can also leach, the nitrate ion's affinity for mobility in water and its common fertilizer application make it a more significant concern regarding leaching. Phosphate (PO₄), on the other hand, tends to bind tightly to soil particles and is much less likely to leach.

7. If the value of a crop is \$31 per bushel and a production practice costs \$11.50 per acre, which of the following yield increases would make the production profitable?

- A. 2 Bu/Acre
- B. 3 Bu/Acre
- C. 4 Bu/Acre**
- D. 5 Bu/Acre

To determine which yield increases would make the production practice profitable, we need to calculate the additional revenue generated by each yield increase option and compare that to the cost of the practice. The cost of the production practice is \$11.50 per acre. 1. For an increase of 2 bushels per acre, the additional revenue would be: - 2 bushels/acre x \$31/bushel = \$62.00 per acre. - Profit = \$62.00 - \$11.50 = \$50.50 per acre (profitable). 2. For an increase of 3 bushels per acre, the additional revenue would be: - 3 bushels/acre x \$31/bushel = \$93.00 per acre. - Profit = \$93.00 - \$11.50 = \$81.50 per acre (profitable). 3. For an increase of 4 bushels per acre, the additional revenue would be: - 4 bushels/acre x \$31/bushel = \$124.00 per acre. - Profit = \$124.00 - \$11.50 = \$112.50 per acre (profitable)

8. What factor primarily hinders seedling emergence?

- A. Root disease
- B. Surface crusting**
- C. Soil acidity
- D. Excessive moisture

Surface crusting is the primary factor that hinders seedling emergence because it forms a hardened layer on the soil surface after heavy rainfall or irrigation. This crust creates a physical barrier that makes it difficult for seedlings to break through and emerge from the soil. Even though the seeds may be planted at the proper depth and require the right moisture conditions, the crust can inhibit their upward growth, leading to poor plant establishment. Other factors, such as root disease, soil acidity, and excessive moisture, can also impact seedlings, but they do not typically create the immediate physical barrier that surface crusting does. Root disease can affect the health of seedlings once they emerge, while soil acidity can influence nutrient availability and root growth over time. Excessive moisture can lead to other problems like poor aeration or root rot, but again, it doesn't create a physical obstacle at the surface level. Therefore, among these factors, surface crusting is particularly significant in directly obstructing the process of seedling emergence.

9. Which pesticide characteristic would likely lead to the most groundwater pollution?

- A. High Absorption by Colloids
- B. Little Absorption by Colloids**
- C. High Volatility
- D. Low Water Solubility

Little absorption by colloids is a characteristic that would lead to the most groundwater pollution because when a pesticide has low absorption, it means that it does not easily adhere to soil particles. This allows the pesticide to more readily leach through the soil profile and enter groundwater systems, especially in areas with sandy or well-drained soils. High absorption by colloids would typically result in more retention within the soil, thus minimizing the likelihood of reaching groundwater. High volatility can facilitate the pesticide evaporating into the atmosphere rather than moving through the soil. Low water solubility also reduces the movement of the pesticide into groundwater, as compounds that do not dissolve well in water tend to remain in the soil or bind tightly to soil particles. Therefore, low absorption by colloids poses a significant risk for groundwater contamination due to its increased potential for leaching.

10. Which type of acidity is most important in determining the required lime rate?

- A. Active
- B. Residual**
- C. Potential
- D. Saline

The type of acidity that is most important in determining the required lime rate is residual acidity. Residual acidity represents the acid that persists in the soil even after the active acidity (measured by pH) has been neutralized. It accounts for the total acid content of the soil, including that which is held on soil particles and is not readily available to neutralization through a simple addition of lime. When assessing the need for lime, understanding residual acidity helps determine how much lime is necessary to not only raise the soil pH to the desired level but also to effectively combat the long-term acidity that can affect soil health and crop production. Correctly estimating this requires analyzing soil samples to gauge both the active and residual acidity levels. Active acidity refers to the hydrogen ions in the soil solution and provides an immediate measure of soil pH, whereas potential acidity considers the total acidity that can affect soil chemistry but is less relevant when determining lime needs. Saline conditions are characterized by high levels of soluble salts and do not directly relate to the acidity constraints. Thus, it is the residual acidity that plays the pivotal role in calculating the proper lime rate for effective soil management.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://necertifiedcropadvisor.examzify.com>

We wish you the very best on your exam journey. You've got this!

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