

# 4

## Harvest and Storage



### REYNOLDS HARVESTING

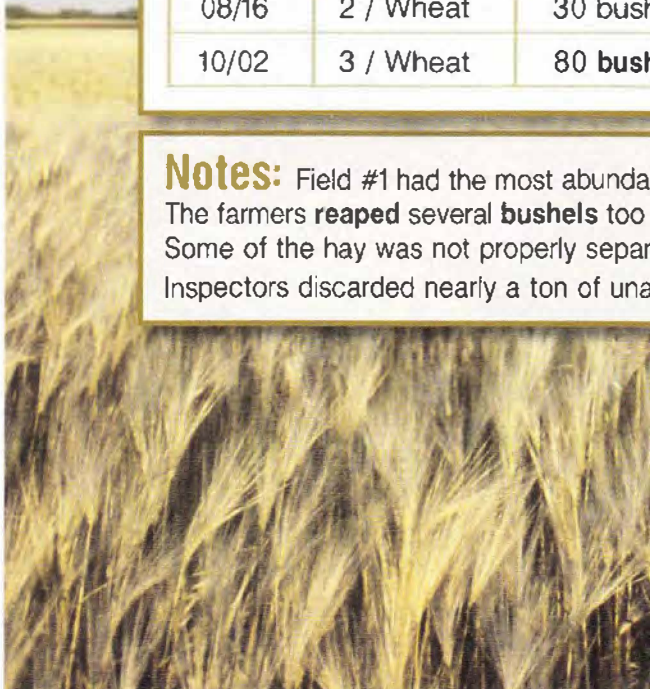
### HARVEST SUMMARY REPORT

Farm: 0024

Crops: Hay and Wheat

Harvest Date	Field # / Crop	Yield	Package Type	Package Weight	Rained On
06/29	1 / Hay	0.5 ton / acre	Round Bale	0.6 tons	No
08/16	2 / Wheat	30 bushels / acre	Bushel	600 bushels	Yes
10/02	3 / Wheat	80 bushels / acre	Bushel	1600 bushels	No

**Notes:** Field #1 had the most abundant yield. Field #2 was more difficult. It **matured** later than expected. The farmers **reaped** several **bushels** too early. We also experienced an equipment problem during **threshing**. Some of the hay was not properly separated from the **chaff**. Field #3 was more successful. Inspectors discarded nearly a ton of unacceptable material from the **stacks**. Most came out of field #2.



### Vocabulary

3 Read the sentence pair. Choose where the words best fit the blanks.

1 **reap / mature**

A \_\_\_\_\_ the crops in six months.

B Some plants take longer to \_\_\_\_\_.

2 **chaff / harvest**

A The annual \_\_\_\_\_ is next month.

B This machine removes the unusable \_\_\_\_\_.

2 **tons / bales**

A There were many more \_\_\_\_\_ of hay this year.

B How many \_\_\_\_\_ of wheat were harvested?

### Get ready!

1 Before you read the passage, talk about these questions.

- When do farmers harvest crops in your country?
- How do farmers gather crops during harvest?

### Reading

2 Read the harvest summary report. Then, mark the following statements as true (T) or false (F).

- \_\_\_ The crops all have the same package type.
- \_\_\_ None of the crops were rained on.
- \_\_\_ Field #2 produced the smallest amount of wheat.

4 Write a word that is similar in meaning to the underlined part.

- This year's quantity of crops produced was twice last year's. y \_ \_ \_ d
- Removing unusable parts from wheat makes it edible. \_ h \_ \_ s \_ \_ n \_
- Instead of gathering the crops in bales, we left them in organized piles. \_ t a \_ \_ \_
- When you go to the market, get 2 units of measurement equal to 9.3 Gallons of grain. b \_ s \_ \_ \_ \_
- When you place an order, tell them what form of packaging to use. p \_ \_ \_ \_ \_ \_ t \_ \_ \_

5 Listen and read the harvest summary report again. What problems did farmers experience with this year's harvest?

**Listening**

6 Listen to a conversation between two farmers discussing a harvest. Choose the correct answers.

- How does the man feel about the harvest?  
 A worried                      C confused  
 B pleased                        D disappointed
- What can you infer about the farmers' planting method?  
 A It was unsuccessful.  
 B It created a smaller harvest.  
 C It had not been used before.  
 D It involved several types of crops.

7 Listen again and complete the conversation.

Farmer 1: Cathy, what's the 1 \_\_\_\_\_ on the latest corn harvest?

Farmer 2: Well, we have fifteen tons for immediate sale.

Farmer 1: Fifteen tons? 1 \_\_\_\_\_ tons did we sell from the last field?

Farmer 2: Um, let's see. We sold eleven tons from the last field.

Farmer 1: That's 3 \_\_\_\_\_! Your new 4 \_\_\_\_\_ is working nicely.

Farmer 2: Yes, it is. We also expect to approve another five tons by Friday.

Farmer 1: 5 \_\_\_\_\_, Cathy. This is our 6 \_\_\_\_\_ harvest ever.



**Speaking**

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

**USE LANGUAGE SUCH AS:**

*We have ... for sale.*  
*We will approve ... by ...*  
*This is our ... harvest*

**Student A:** You are a farmer. Talk to Student B about:

- a crop report
- tons sold
- your opinion of harvest

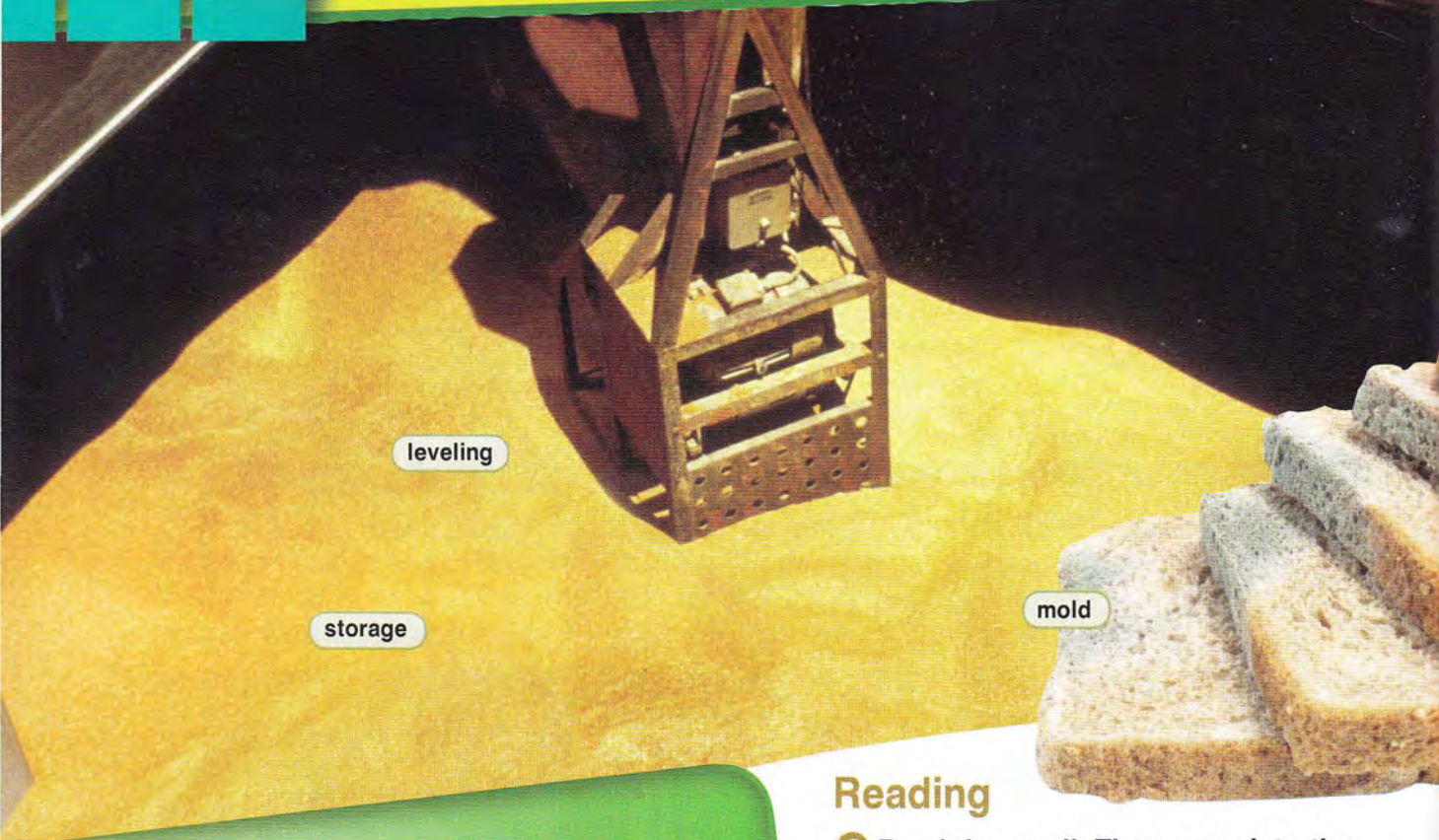
**Student B:** You are a farmer. Answer Student A's questions.

**Writing**

9 Use the conversation from Task 8 to fill out the crop report.

Date	Crop	Package Type	Package Weight





To: t.garcia@garciafarms.com  
 From: c.thompson@garciafarms.com  
 Subject: Storage Problem

Mr. Garcia,

We found a problem in **bunker silo** number 13. **Mold** is growing near the south opening. I suspect two causes. First, there was improper **leveling**. Too much **moisture** gathered at one end. Secondly, the silo has too much **ventilation**. It can't **dry** and **cool** the silage.

As a result, most of the silage is destroyed. The rest is in **silage bags** for now. Number 13 is closed until we remove the mold. Should we use one of the **tower silos** for **storage** in the meantime? We should also discuss how to fix number 13. I don't want this to happen again.

Thank you,  
 Carla Thompson, Storage Manager

### Get ready!

1 Before you read the passage, talk about these questions.

- 1 How do farmers store crops in your country?
- 2 How can stored crops be damaged?

### Reading

2 Read the email. Then, complete the summary of the email.

Workers discovered mold in 1 \_\_\_\_\_.  
 13. There were two causes: improper 2 \_\_\_\_\_  
 and too much 3 \_\_\_\_\_. Most of the silage was  
 destroyed. The rest is in 4 \_\_\_\_\_ bags. The  
 workers might store silage in the 5 \_\_\_\_\_ silos.

### Vocabulary

3 Read the sentence pair. Choose where the words best fit the blanks.

1 cool / dry

A \_\_\_\_\_ the grain or the heat will ruin it.

B After the harvest, \_\_\_\_\_ the wet crops.

2 storage / mold

A Nancy is worried about getting \_\_\_\_\_ in her silo.

B Jim sold some of the grain and put the rest in \_\_\_\_\_.

3 silage bag / ventilation

A There's a problem with the silo; use a \_\_\_\_\_.

B Don's storage facilities have excellent \_\_\_\_\_.

**4 Match the words (1-4) with the definitions (A-D).**

- 1 — leveling                      3 — tower silo  
 2 — moisture                    4 — bunker silo

- A flattening the top of a pile  
 B a long trench used to store grain  
 C wetness  
 D a tall storage facility

**5 Listen and read the email again. Why is Carla Thompson contacting Mr. Garcia?**

**Listening**

**6 Listen to a conversation between a farm owner and a storage manager. Mark the following statements as true (T) or false (F).**

- 1 — A machine improperly leveled the grain.  
 2 — The new assistant will receive more training.  
 3 — Workers will use silage bags until the ventilation works.

**7 Listen again and complete the conversation.**

**Manager:** Mr. Garcia, did you get my email about the bunker silo?

**Owner:** I did. How bad is it?

**Manager:** It's pretty bad. There's mold  
 1 \_\_\_\_\_

**Owner:** How did this happen?

**Manager:** It was our 2 \_\_\_\_\_  
 \_\_\_\_\_. He wasn't  
 trained on 3 \_\_\_\_\_.

**Owner:** Well, 4 \_\_\_\_\_  
 \_\_\_\_\_ he gets trained.

**Manager:** Of course. We're also  
 checking the 5 \_\_\_\_\_  
 system. There's too much air  
 moving in there.

**Owner:** Use the 6 \_\_\_\_\_  
 \_\_\_\_\_ until you fix it. And  
 keep me updated.



**Speaking**

**8 With a partner, act out the roles below based on Task 7. Then, switch roles.**

**USE LANGUAGE SUCH AS:**

- How bad is it?*  
*How did this happen?*  
*Use the ... until ...*

**Student A:** You are a farm owner. Talk to Student B about:

- mold in a silo
- causes
- storage

**Student B:** You are a storage manager. Answer Student A's questions.

**Writing**

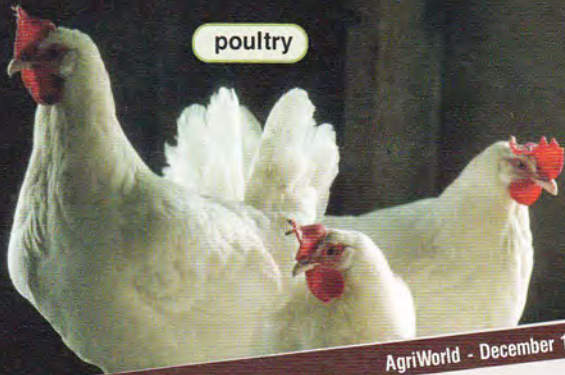
**9 Use the conversation from Task 8 and the email to fill out the storage manager's message to farm workers.**

**ATTENTION**

Bunker silo 13 \_\_\_\_\_ .  
 This was caused by \_\_\_\_\_  
 and \_\_\_\_\_ .  
 Use \_\_\_\_\_ until it is fixed.  
 There is training on \_\_\_\_\_  
 for all new employees this week.



poultry



AgriWorld - December 17

## POSTING #09500 Animal Nutritionist

Date posted: Jan. 25  
Employer: Hillford Poultry Farm  
Location: Lancaster, PA

Job Description: Prepare **feed** formula for fifteen varieties of chicken. Research and select low-cost ingredients with high **nutrient** content. Balance **carbohydrate**, fat, protein, **vitamin**, and **mineral** content in daily **rations**. Adjust feed formula as needed.

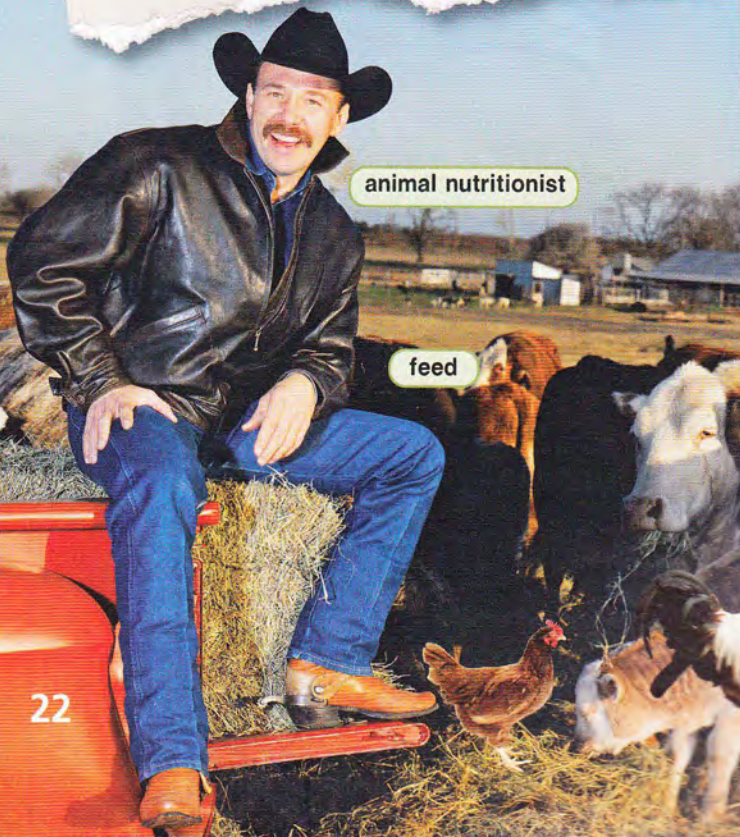
Job Qualifications: Masters Degree or higher in animal **nutrition**. Minimum of two years' experience, preferably on a **poultry** farm.

Salary: Based on experience, generous benefit package available.

Contact Information: Brian Walker (610) 555-5905  
bwalker@hillford.com

animal nutritionist

feed



### Get ready!

1 Before you read the passage, talk about these questions.

- 1 What types of food do farm animals eat?
- 2 How does feed affect animals' growth?

### Reading

2 Read the job posting. Then, mark the following statements as true (T) or false (F).

- 1  Hillford Farms has fifteen varieties of chicken.
- 2  The Hillford Farms daily ration includes fats.
- 3  Applicants need a degree in poultry management.

### Vocabulary

3 Match the words (1-5) with the definitions (A-E).

- |                                     |  |
|-------------------------------------|--|
| 1 <input type="checkbox"/> nutrient | 4 <input type="checkbox"/> animal nutritionist |
| 2 <input type="checkbox"/> feed     | 5 <input type="checkbox"/> vitamin             |
| 3 <input type="checkbox"/> poultry  |  |

- A an organic substance found in food that is essential for good health
- B food given to animals
- C a person who makes healthy food for animals
- D any organic or inorganic substance that provides nourishment
- E domesticated birds such as chickens and turkeys

4 Write a word that is similar in meaning to the underlined part.

- 1 Henry increased the daily amount of food.  
r \_ \_ \_ \_ n
- 2 Inorganic substances like potassium are essential for good health.  
\_ i \_ \_ r a \_ \_
- 3 Besides sleep and shelter, the process of nourishing an organism is the most important thing that every organism needs.  
\_ u \_ r \_ t \_ \_ \_
- 4 Animals need a sufficient amount of substances used to make energy in their diet.  
c a \_ \_ \_ \_ \_ \_ \_ \_ t e \_



- 5 Listen and read the job posting again. What will be the main duties of the animal nutritionist?

## Listening

- 6 Listen to a conversation between an interviewer and a job applicant. Choose the correct answers.

- What does the applicant make at AGM Industries?
  - low-fat chicken feed
  - high-protein pig feed
  - low-carbohydrate pig feed
  - high-carbohydrate chicken feed
- What requirement does the applicant meet?
  - He has one year of experience.
  - He has worked with chickens.
  - He has created special feeds.
  - He has worked for Hillford Farms.

- 7 Listen again and complete the conversation.

**Interviewer:** Good morning. Mr. Jordan, I'm Terry Riley.

**Job applicant:** 1 \_\_\_\_\_ you, Miss Riley.

**Interviewer:** Nice to meet you too. Please, 2 \_\_\_\_\_ and we'll get started.

**Job applicant:** Thank you. Did you get my resume?

**Interviewer:** Yes, I did. It looks very good. 3 \_\_\_\_\_ your work at AGM Industries.

**Job applicant:** Well, I work at their 4 \_\_\_\_\_ . I create special formulas for high-protein feed.

**Interviewer:** Interesting. Now, applicants must have experience with 5 \_\_\_\_\_. Have you ever worked with 6 \_\_\_\_\_?

**Job applicant:** Yes, in my previous job. It was at Reynolds Farms.

## Speaking

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

### USE LANGUAGE SUCH AS:

*Nice to meet you.*

*Tell me about ...*

*Have you ever worked with ...*

**Student A:** You are interviewing a job applicant. Talk to Student B about:

- resume
- current job
- experience

**Student B:** You are interviewing for a job. Answer Student A's questions.

## Writing

- 9 Use the conversation from Task 8 and the job posting to fill out the applicant's resume.

Name: \_\_\_\_\_

Position applying for: \_\_\_\_\_

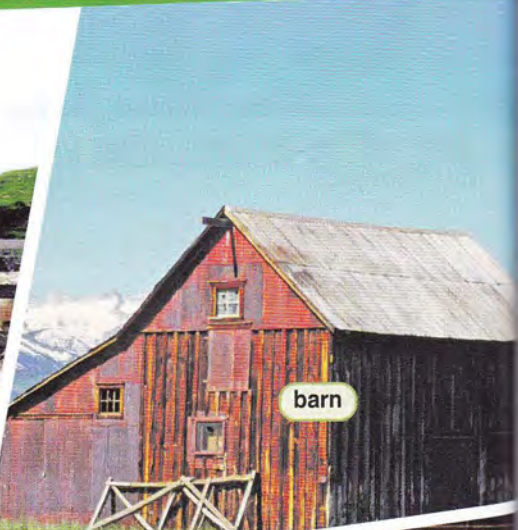
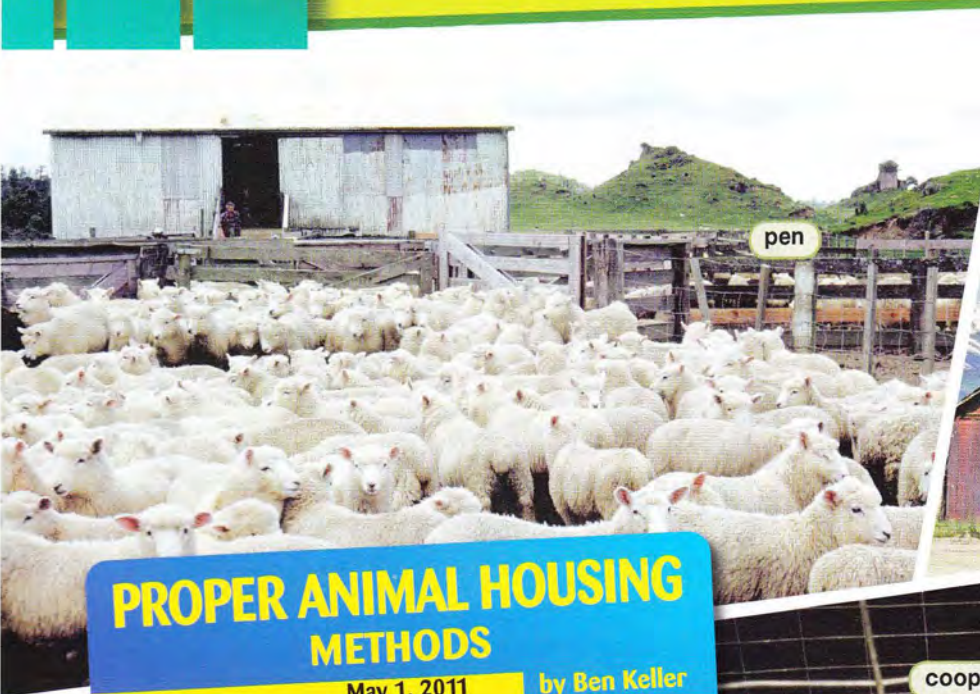
Current Position: \_\_\_\_\_

Responsibilities: \_\_\_\_\_  
\_\_\_\_\_

Former Position: \_\_\_\_\_

Responsibilities: \_\_\_\_\_  
\_\_\_\_\_





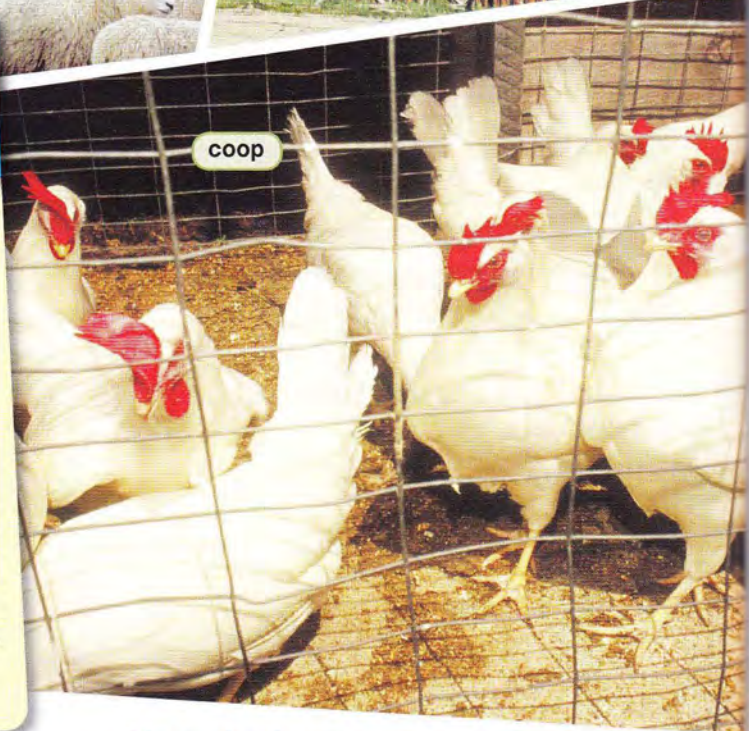
## PROPER ANIMAL HOUSING METHODS

May 1, 2011

by Ben Keller

Here are some tips for how to properly house animals. I will use my hog barn as an example. The ideas apply to **coops** and **pens** as well. Animals with proper housing are in their **comfort zones**. They are healthier and more productive than animals with poor housing.

First, make sure the enclosure matches the **space requirements** of the animal. You also need to know the animals' critical temperatures. Install automated heating and cooling to prevent **heat stress** and **cold stress**. Don't forget to have a good **waste management** system. **Slotted floors** provide a simple way to keep your animal's living space clean.



### Get ready!

1 Before you read the passage, talk about these questions.

- How are animals housed in your country?
- How do workers maintain animal housing structures?

### Reading

2 Read the page from a farming blog. Then, mark the following statements as true (T) or false (F).

- \_\_\_ The author raises poultry.
- \_\_\_ Housing affects animals' productivity.
- \_\_\_ Slotted floors prevent heat stress.

### Vocabulary

3 Read the sentence pair. Choose where the words best fit the blanks.

1 **coop** / **cold stress**

A The chickens live in a separate \_\_\_\_\_.

B Install a heater to prevent \_\_\_\_\_.

2 **heat stress** / **pen**

A During the summer, \_\_\_\_\_ is a problem.

B Pigs do best if they are kept in their own \_\_\_\_\_.

3 **slotted floor** / **waste management**

A \_\_\_\_\_ is essential for odor control.

B A \_\_\_\_\_ helps air to circulate.

**4 Match the words (1-4) with the definitions (A-D).**

- 1 \_\_\_ barn
- 2 \_\_\_ comfort zone
- 3 \_\_\_ critical temperature
- 4 \_\_\_ space requirement

- A conditions under which an animal is comfortable
- B a structure used to house animals
- C the amount of space that an animal needs
- D a temperature that must be maintained

**5 Listen and read the page from a farming blog again. Apart from proper housing, what else do animals require to be productive?**

### Listening

**6 Listen to a conversation between two farmers discussing animal housing. Place a check (✓) next to reasons they need a new barn.**

- 1  They will have more animals.
- 2  The barn gets too cold in winter.
- 3  The barn has poor ventilation.
- 4  They want to add slotted floors.
- 5  The barn doesn't meet space requirements.

**7 Listen again and complete the conversation.**

Farmer 1: I think we need a new barn.  
Farmer 2: What's wrong with this one?  
Farmer 1: First, the 1 \_\_\_\_\_ isn't very good.  
Farmer 2: I agree with you there. It's 2 \_\_\_\_\_  
\_\_\_\_\_ in here during the  
3 \_\_\_\_\_.  
Farmer 1: And don't forget, we're getting  
4 \_\_\_\_\_ in  
May.  
Farmer 2: That's a 5 \_\_\_\_\_ . We'll  
need more space then.  
Farmer 1: I'll talk with a builder tomorrow.  
Farmer 2: Let's estimate the 6 \_\_\_\_\_  
\_\_\_\_\_ first.

### Speaking

**8 With a partner, act out the roles below based on Task 7. Then, switch roles.**

**USE LANGUAGE SUCH AS:**

- I think we need a new barn.*
- I agree with you there.*
- We'll need more space.*

**Student A:** You are a farmer. You want a new barn. Talk to Student B about:

- a new barn
- temperature
- animals and space

**Student B:** You work with Student A on a farm. Answer Student A's questions.

### Writing

**9 Use the conversation from Task 8 to fill out the farmers' letter to a builder.**

Dear Mr. Haynes,

We need \_\_\_\_\_.

Our current barn \_\_\_\_\_.

And we are getting \_\_\_\_\_.

The barn won't meet \_\_\_\_\_.

We need the new barn \_\_\_\_\_.

It should be able to house \_\_\_\_\_.

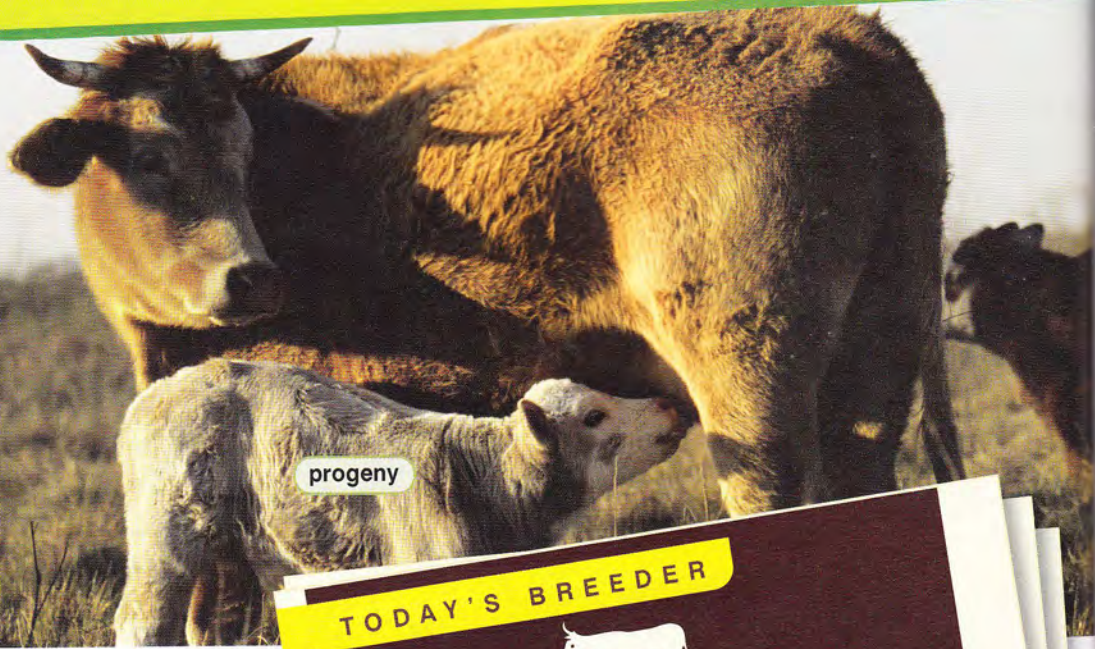
How much \_\_\_\_\_?

Thanks,

\_\_\_\_\_







progeny

### Get ready!

- 1 Before you read the passage, talk about these questions.
- 1 What traits do farmers want in different animals?
  - 2 How often do different animals breed?

### Reading

- 2 Read the notice. Then, mark the following statements as true (T) or false (F).
- 1  The company sells high quality bulls.
  - 2  The company helps customers select desirable traits.
  - 3  The computer print out details the breeding value of the steers.

### Vocabulary

- 3 Fill in the blanks with the correct words and phrases from the word bank.

#### Word BANK

breeding value    progeny  
rate of gain    heritability

- 1 Healthy breeders usually produce healthy \_\_\_\_\_.
- 2 Laura's breeding bulls have high \_\_\_\_\_.
- 3 This year's calves have a lower \_\_\_\_\_.
- 4 Each trait has a different degree of \_\_\_\_\_.

TODAY'S BREEDER



ESTABLISHED 1978

**Tom's CATTLE BREEDING Service**

Abilene, TX • (498) 555-49499

We have twenty Black Angus bulls available for breeding. Each bull has a detailed sire summary and complete pedigree. All are of high breeding value. Schedule an appointment to discuss your needs. We will help you with trait selection. We are 85% accurate in predicting heritability of most traits. Do you want a high rate of gain? Do you need strong musculature? Consider our bulls. You get a computer print out of the expected progeny difference (EPD). We can also provide information about each bull's progeny. Call us today!

- 4 Match the words (1-5) with the definitions (A-E).

- |  |   |
|--|---|
| 1 <input type="checkbox"/> breeding        | 4 <input type="checkbox"/> EPD          |
| 2 <input type="checkbox"/> pedigree        | 5 <input type="checkbox"/> sire summary |
| 3 <input type="checkbox"/> trait selection |   |

- A a line of ancestors  
B the act of mating animals  
C a rating of the likelihood that a trait will be inherited  
D a list of predictions about the passage of trait  
E the act of breeding to achieve specific traits

5 Listen and read the notice again. What does the cattle breeding service claim that it can predict?

**Listening**

6 Listen to a conversation between a breeder and a client. Choose the correct answers.

- What trait does the client want the offspring to have?
  - A strong muscles
  - B high rate of gain
  - C higher milk production
  - D increased heritability
- What does the client ask the breeder to provide?
  - A an EPD
  - B a pedigree
  - C a discount
  - D a sire summary

7 Listen again and complete the conversation.

**Breeder:** Here are pictures of all of our bulls. What traits do you want in the offspring?

**Client:** Well, I have a dairy herd. So I'd like to increase 1 \_\_\_\_\_.

**Breeder:** This Holstein 2 \_\_\_\_\_ you. Many of his progeny are prize milk cows.

**Client:** Really! Can I see his 3 \_\_\_\_\_?

**Breeder:** 4 \_\_\_\_\_ . I'll get you a copy.

**Client:** How much do you charge for breeding?

**Breeder:** 5 \_\_\_\_\_ . I give a discount for more than twenty cows.

**Client:** I see. That's 6 \_\_\_\_\_ than I need.

**Speaking**

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

**USE LANGUAGE SUCH AS:**

*What traits do you want?*  
*I'd like to increase ...*  
*How much do you charge for breeding?*

**Student A:** You are a cattle breeder. Talk to Student B about:

- traits
- progeny
- discounts

**Student B:** You want to breed your cattle. Answer Student A's questions.

**Writing**

9 Use the conversation from Task 8 to fill out the order with the breeder.



**Order 138**

Customer name: \_\_\_\_\_

Type of farm: \_\_\_\_\_

Traits desired: \_\_\_\_\_

Paperwork requested: \_\_\_\_\_

Number of cows: \_\_\_\_\_

Discount? Y / N

