

# Safe Farm

Promoting Agricultural Health & Safety

## Remember sun safety in the field

Long days outside in the warm glow of summer can be a serious hazard. In recent years, scientists have found that environmental pollution may deplete the earth's ozone layer that protects the surface from the sun's harmful ultraviolet radiation. Researchers also are learning more about the relationship between these invisible sun rays and various forms of skin cancer and diseases such as eye cataracts.

Skin cancer is one of the most common forms of cancer in the United States. The American Cancer Society estimates that 900,000 new cases of the highly curable forms of skin cancer are diagnosed each year. New cases of melanoma, the most serious and life-threatening skin cancer, were expected to be 40,300 in 1997, with 7,300 cases resulting in death. Skin cancer has increased at a rate of 4 percent each year since 1973, and is 20 times higher among whites than African Americans.

These trends have serious implications for farmers and others who spend much of their working hours outdoors.

### Sun exposure

Research has shown that cumulative sun exposure is a major factor in development of skin cancer. Small changes occur in the skin each time it is exposed to sunlight. People who burn easily, rarely tan, freckle or have a fair complexion, have blonde or red hair, or have blue or gray eyes, experience greater skin changes. Skin cancer usually is not associated with a single, painful sunburn, but rather with repeated exposure to the sun and changes in the skin's makeup. The sun's rays are

more damaging during summer months and at midday hours than other times. However, you can get a sunburn on a cloudy day during other seasons, and at other times of the day. Cumulative sun exposure is the major concern.

If you notice a new growth, mole or discoloration, or a sudden change in an existing mole, see a physician. Early detection of skin cancer is the first step for successful treatment.

The back of the neck, ears, face, and eyes are sensitive to sun exposure. Luckily, these and other body parts easily can be protected by wearing proper clothing, sunglasses, or sunscreen. By taking precautions and avoiding the sun's most damaging rays, you may be able to reduce your risk.

### Hats

Protection for the face and other parts of the head can be as simple as wearing a hat. A classic study by the Wisconsin-based National Farm Medicine Center found no "perfect hat" among 11 styles, however, some are better than others. When selecting a hat, consider the following questions, and balance your needs in each of these areas.

**Coverage:** How much of your face, ears, and neck are shaded by the hat? Although the baseball cap has been the Midwestern farmer's trademark, it does not protect vulnerable areas on the ears, temples, face, and neck. Other hats provide better protection, such as wide-brimmed hats, pith helmets, hats with double brims or removable flaps, and an Australian-style hat with a full brim.

## Sun safety

### How much do you know ?

1. Skin cancer affects more than \_\_\_ Americans every year.
  - a) 9,000
  - b) 90,000
  - c) 900,000
2. A baseball cap will protect you from harmful rays from the sun. True or false?
3. Wearing a hat will keep all the sun's ultraviolet rays out of your eyes. True or false?
4. All sunglasses protect eyes from the sun's ultraviolet rays. True or false?
5. You can avoid the sun's most damaging rays by
  - a) avoiding sun from 10 a.m. and 3 p.m.
  - b) wearing a wide-brimmed hat.
  - c) using sunscreen with protection factor (SPF) of 15 or greater.
  - d) wearing pants and a long-sleeved shirt.

See answers on back.

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**Coolness:** Is it cool enough to be worn on hot days? The hat also must be practical for other conditions, such as high humidity, strong winds, blowing dust, and sporadic rain showers.

**Comfort:** How does the hat feel? Will it stay on during various tasks? Can you wear it around animals or in close quarters? Does it limit vision or hearing?

**Commitment:** Will you wear it? The most well-designed hat is ineffective if it's seldom worn. An ISU study found that farmers think it is most important for a hat to be made of sun-blocking material, have a full brim, be light weight and low in cost.

## Clothing

The thought of wearing long-sleeved shirts and long pants in the summer might sound uncomfortable, but proper clothing can protect against the sun and minimize heat stress. Lightweight clothing, preferably 100 percent cotton, provides both comfort and protection.

## Sunscreen lotions

Parts of the body that are not covered by clothes can be protected with sunscreen lotions. Sunscreens are not a substitute for wearing proper clothing. They also can give users a false security.

Sunscreens recommended for outdoor workers should have a sun protection factor (SPF) rating of at least 15. This means that you are protected from a reaction to the sun's effects 15 times longer than you are without the sunscreen. Read the label to know when to re-apply sunscreen and whether it is water-proof.

## For more information

Information about skin cancer can be obtained from the American Cancer Society, (800) 688-0147. For a list of hat sources, contact Jan Stone, 1055 LeBaron Hall, Ames, IA 50011.

A survey during the 1996 Farm Progress Show showed that 40 percent of all respondents worked in the summer sun more than 4 hours a day; 60 percent agreed a sun-blocking hat material was

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## Sun avoidance

The easiest way to reduce exposure to ultraviolet radiation is to avoid the sun. Critical times are midday hours between 10 a.m. and 3 p.m. This may be impossible for some active individuals, but scheduling tasks around this period could reduce exposure when the sun is most dangerous.

## Sunglasses

Even the most effective hats can block only 50 percent of the ultraviolet rays that reach the eyes. A good shade hat combined with the use of sunglasses is a better way to protect eyes from sun exposure.

Use caution when selecting sunglasses because they vary widely in the amount of protection from ultraviolet radiation. A peel-off label on the lens indicates its UV rating, or percentage of ultraviolet rays blocked by the sunglasses (the best rating is 100). If no information is provided by the manufacturer, the sunglasses may not offer any added protection.

Remember that people who spend a lot of time outdoors in work or leisure activities can suffer from more than just exhaustion or heat stress. They are at risk for skin cancer and other diseases that result from years of exposure to the sun. Be aware of risks and make it a habit to protect yourself from sun exposure.

Prepared by Charles V. Schwab, extension safety specialist; Janis Stone, extension textiles and clothing specialist; and Laura Miller, extension communications. Design by Valerie King.

important. Farmers were less likely than others to say that design and appearance, color, and logos were important hat features.

For a free fact sheet that shows various hat designs, contact your county extension office for a copy of *Is it time to change your hat?*, Pm-1683. Other information is available from the National Farm Medicine Center, (800) 662-6900.

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# Sun safety

## What can you do?

- Examine the hat you wear for field work. Determine if it protects your ears, face, temples, and neck from the sun.
- Visit your doctor regularly to determine whether you have the warning signs of skin cancer.
- Encourage employees and family members to use proper eye and skin protection from the sun.
- Check the UV rating of your sunglasses. If the rating is low or you cannot find it, purchase new glasses with a higher rating.
- Select sunscreen lotion that provides adequate protection for your situation. Keep it handy and use it when needed.

Answers to quiz: 1-c; 2-False; 3--False; 4-False; 5-a, b, c, d

## Safe Farm



Safe Farm is an Iowa State University Extension project helping to make Iowa farms a safer place to work and live.

Check the World Wide Web at: <http://www.ae.iastate.edu> for more safety information



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