

# THOMASSON

C O M P A N Y

Wood Poles - Piling - Fence Post - Timbers - Stub Poles and Other Products

Severe weather conditions may cause an immediate need for poles.. In an emergency, please contact us day or night.

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## STRENGTH OF POLES

There was a severe wind storm in Kansas in August 2006. It blew down a two mile stretch of transmission and distribution poles. All the poles broke at the ground line.

An intensive investigation was made and the results were published in Transmission & Distribution World, Volume 59 in May 2007.

I studied this article to see what I could learn.

Remember I have no formal education in engineering but have been around lumber/sawmills/logs/poles and preservatives for the past 66+ years. (I started early). Also, remember a little knowledge is a dangerous thing.

The first point that caught my attention was the statement "for most short poles the maximum stress will normally occur at or below the ground line" and second, "the strength of the pole at a given height is proportional to the cube of the circumference at this height."

When the circumference of the ground line is cubed (circumference times circumference times circumference) and

| Length/Class | Circumference @ groundline | Circumference cubed |
|--------------|----------------------------|---------------------|
| 30'/6        | 25                         | 15,625              |
| 30'/5        | 27.5                       | 20,797              |
| 30'/4        | 29.5                       | 25,672              |
| 30'/3        | 32                         | 32,768              |
| 35'/6        | 27                         | 19,683              |
| 35'/5        | 29                         | 24,389              |
| 35'/4        | 31.5                       | 31,255              |
| 35'/3        | 34                         | 39,304              |
| 40'/6        | 28.5                       | 23,149              |
| 40'/5        | 31                         | 29,791              |
| 40'/4        | 33.5                       | 37,595              |
| 40'/3        | 36                         | 46,656              |
| 45'/4        | 32.5                       | 34,328              |
| 45'/3        | 35                         | 42,875              |
| 45'/2        | 37.5                       | 52,734              |
| 50'/4        | 36.5                       | 48,625              |
| 50'/3        | 39                         | 59,319              |
| 50'/2        | 42                         | 74,088              |
| 50'/1        | 45                         | 91,125              |

then compared to the previous class, you find the strength increases approximately 25% with each larger class.

ANSI 05.1—2002 shows basically the same thing. The ground line stress is approximately 25% greater with each larger class when the horizontal load is applied 2 feet from the top of the pole.

| Class | Horizontal Ld | % Increase |
|-------|---------------|------------|
| 7     | 1,200         |            |
| 6     | 1,500         | 25%        |
| 5     | 1,900         | 27%        |
| 4     | 2,400         | 26%        |
| 3     | 3,000         | 25%        |
| 2     | 3,700         | 23%        |
| 1     | 4,500         | 21%        |

This is accurate on the popular sizes. The larger classes don't increase in strength this much. The smaller sizes increase much more than 25%



## FOOTBALL

It's about that time. All the fans have high hopes – your team is undefeated!

Many of the employees have different hobbies. The oldest clodhopper at Thomasson Company is still trying to officiate high school football, after 52 years on the field, the crew jokes that they will assign him to the clock.

Here is a test of the rules for high school football. Let's see how much you know about the sport. Answer True or False.

1. When the ball becomes dead in possession of a player, he shall place the ball on the ground or immediately return it to a nearby official.
2. If the head coach has been disqualified, a "new" head coach may not be designated for the purpose of requesting time-out(s).
3. If worn attached to the helmet, an eye shield is illegal unless it is constructed of a molded, rigid material that is clear and permits 100 percent (no tint) allowable light transmission.
4. Batting a fumble in flight is illegal.
5. A forward pass may be battled in any direction by all eligible receivers.
6. Player of the team in possession may bat a ball in player possession forward.

7. It is illegal for B1 to trip runner A1.

8. The ball becomes dead during a try when B1 secures possession or as soon as it is apparent that a kick try is unsuccessful.

9. In a Scrimmage Kick formation, the snapper has special protection only until the ball has clearly been released in a legal snap.

10. If a loose ball touches a game official, who is straddling the sideline, the ball is not out of bounds.

11. Tear-away jerseys may be worn in both coaches agree to use them.

12. The foul for not properly wearing the required equipment during a down carries a penalty of 15 yards.

13. A live-ball foul and a dead-ball foul cannot be combined to create a double foul.

14. Forward pass interference can occur behind, in or beyond the neutral zone.

15. If end A1 accidentally goes out of bounds and returns during the down, he becomes an ineligible pass receiver.

16. Pass eligibility rules apply to both legal and illegal forward passes.

17. The offensive team is limited to one legal forward pass per down.

18. If a foul occurs simultaneously with the snap it is enforced from the succeeding spot.

19. The penalty for an unsportsmanlike foul is enforced from the spot of the foul.

20. If B1 intercepts a forward pass in B's end zone and drops to one knee, it is a safety.

21. Receiver may recover any scrimmage kick anywhere between the goal lines and advance the ball.

22. The snapper may have his free hand on the ground in advance of the ball.

23. An official's time-out can be called for unusual heat or humidity situations.

24. The clock will start with the snap following the enforcement of a "delay of game" penalty.

25. After the ball has been out of bounds, the clock always starts with the ready-for-play.

A=Offense; B=Defense; A1, B1 a player for one of these teams. Call Hugh at 601-650-3901 for interpretations. Anyone who answers 20 or more correctly wins a cap.

## PUBLIC RELATIONS/CHARITY/GOOD WILL

The Utility Companies are prime prospects for every needy cause. There are always too many opportunities to serve – how can you help your community and still stay in business?

It seems that everyone wants one of your caps, wants you to sponsor a little league team. There is always a cancer victim, a disaster or some church that request help.

You can't do it all or you will give away the farm. As the Bible says "The Spirit is willing but the flesh is weak."

Besides political candidates, you have

civic and church duties which want your help; and you have a lot of the expertise they need – the school board, manager of the little league, county or city government, the water board, the volunteer fire department. The needs are endless. You probably deserve a medal, but I doubt you are appreciated. That really does not matter as long as you are happy with yourself.

I once worked for a wonderful person that did not like to waste money. He certainly was not stingy -- he just wanted to make every penny count. He helped many students go to college, but

he did not want any publicity.

How can we accomplish more with the time and money that we have to work with? How are other utilities getting more "bang for their buck"?

Send in your ideas of how to best serve your community without wasting time or money. One chance per idea. The winning chance wins a four day stay at a condo in Destin, Florida. The drawing will be 10/15/07. Send your ideas to Kim Byrd, P.O. Box 490, Philadelphia, MS 39350.

# How Does Your Garden Grow?

Early morning at Thomasson Company means time for cutting roses and Kelsie Brantley has learned a thing or two about that very task. Hugh's rose garden has over 350 rose bushes. In the summer Kelsie is in charge of cutting the roses every week day morning (The old man cuts on Saturday and Sunday).

It's always a surprise, you never know what you will get. You may get only 20 "short stem weak roses" or you may cut until you run out of time. This was just part of Wednesday mornings Blooms.

If you would like to use one of these pictures as a wallpaper on your computer, go to our website

[www.thomassoncompany.com](http://www.thomassoncompany.com)

and follow the links.

The beautiful pictures are sure to brighten your day!



## ANSWERS TO TEST on page 3

|      |      |      |      |      |      |      |      |     |
|------|------|------|------|------|------|------|------|-----|
| 1-T  | 2-F  | 3-T  | 4-F  | 5-T  | 6-F  | 7-F  | 8-T  | 9-F |
| 10-F | 11-F | 12-F | 13-T | 14-F | 15-F | 16-F | 17-T |     |
| 18-F | 19-F | 20-F | 21-T | 22-F | 23-T | 24-T | 25-F |     |