

TESTS ARE RIGID FOR WOOD USED IN U. S. AIRPLANES

Must Stand Up Under Thousands of Pounds of Pressure

Washington, D. C.—To be trustworthy, an airplane propeller must be one of the strongest things in the world. Not only are they subjected to gundrie, but their normal action makes heavy demands on their strength. The very speed of their revolutions tends to disrupt them.

Some air-machine engines run at 700 revolutions a minute, and can be geared up to 2,000. An engine of this power would use nine-foot-diameter propeller, and the speed of the blades ends would be in the neighborhood of 600 miles an hour.



warfare when an aviator has to "loop the loop" or plunge, or ascend sharply in maneuvering to bring down, or escape from, an enemy, the machine has to meet and withstand these unusual tests.

Wood for airplane manufacture must be 100 per cent. perfect. In other articles there may be a slight margin of imperfection, and this is recognized in lumber grading rules. In airplanes, however, the safety of aviator and army demands entire freedom from flaws, according to the Forestry Magazine.

Even with Sitka spruce, the favorite wood for airplane construction, there is difficulty in obtaining the very highest grades. The United States Forest Service estimates that only 13 per cent, approximately, is available for plane construction.

The quantity of food needed for each plane varies, of course, with the size of the machine; few of the present types contain less than 250 feet, and it may take 2,000 feet in the rough to furnish this amount.

There has been an actual dearth of the kind of Sitka spruce that must be had, but the northwestern loggers and millmen, in spite of labor troubles, said to have been fomented by our enemies, have begun to catch up with the demand; before long they should be able to keep up a sufficient and constant supply.

For propeller blades ash and white oak are used in considerable quantities, while some are made of mahogany and spruce or mahogany and ash. Black walnut has been used in the construction of propellers, but does not splinter when hit by a projectile. Maple, birch and cherry have found some place in propeller manufacture. Douglas fir has been used in making frames.

Don't refuse that invitation because of a poor complexion. No one knows the humiliation of being a "wall flower" better than the girl with a red, rough, pimply complexion.

Resinol clears away pimples. Quality or Price. It is our belief that the great number of men who smoke King Oscar Cigars. smoke them for their quality and flavor. To maintain this quality it has been necessary to advance the retail price to 6 cents, but the quality must be maintained. John C. Herman & Co. Makers

IF YOU HAVE CHICKENS. You Are Buying Feed—The cost of the feed you buy must be based, not on what you pay in cash for it, but on the NUMBER OF EGGS which that feed makes your hens lay. "LAY OR BUST" DRY MASH. WALTER S. SCHELL Quality Seeds. 1307-1309 MARKET STREET HARRISBURG, PA.

SKILLED LABOR BECOMES SCARCE

Vocational Schools in Shops and Factories as Means of Training Employees

War's demands have brought American industry face to face with a serious situation—the shortage of skilled labor, and every effort is being made to meet this fully so that the nation's war preparations may not be held back and the war prolonged.

These students must be at least 16 years old when starting the course although they may be as young as 14, several of them being 30 years old. They are paid regular wages while learning, thus making the course attractive.

Many Accidents in the Machine Building Industry. During the past few years there has been widespread interest in the subject of industrial accidents and their prevention, and important safety campaigns have been carried on by many employers and by many private and public organizations.

Suffragists to Hold Annual Convention in Pittsburgh Next Week. Plans for state and federal amendments as a part of their patriotic work for democracy will be discussed.

BELL-ANS Absolutely Removes Indigestion. Druggists refund money if it fails. 25c. Ugly Wrinkles Muddy Complexion! Disappear as if by Magic through Derwillo Method.

Scientific Farming Brings Big Returns Near Pen Mar. Waynesboro, Pa., Nov. 12.—Joseph Ridinger, of Baltimore, for several years a photographer at Pen-Mar, who disposed of his photography gallery and then purchased a farm near Pen-Mar, is conducting it on scientific and progressive lines.

DR. CHASE'S Blood and Nerve Tablets. Weigh Yourself Before Taking. Price 60 Cents, Special 90 Cents. Dr. Chase, 224 North Tenth St. Philadelphia, Pa.

WICKS' VAPORUB. Spasmodic Croup is usually relieved with one application of WICKS' VAPORUB.

ORDER OF OWLS HONORISTS DEAD

Impressive Memorial Services Attended by Thousand Members of Fraternity

Three thousand members of the Order of Owls, their wives, friends and members of the Steelton nest, yesterday attended the first annual memorial service of the order in the auditorium of the Technical High school.

The service was probably one of the most impressive ever held in this city. Relatives of the four deceased members of Capital City Nest, for whom the service was held, occupied special seats in the front of the auditorium, their somber garb proving a striking contrast to the electrical effects in the front of the auditorium.

Participating in the program were William W. L. Webster, soprano soloist of old St. Paul's Episcopal Church, of Baltimore, who sang "The Vacant Chair" and "The Lord's Prayer"; Mrs. S. Dugan Fager, contralto soloist of the Grace Methodist Church, of Baltimore; Mrs. Roberta Swartz Harling; and "Par O'er the Stars is Thy Rest" in Mrs. Fager's part.

Plans for state and federal amendments as a part of their patriotic work for democracy will be discussed at the basic part of their work—service work by women who will attend the forty-ninth annual convention of the Pennsylvania Woman Suffrage Association to be held in Pittsburgh, November 20, 21 and 22.

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Soutter's 25c Dep't Store. Buy Here Not Alone Because Prices Are Lower, but Because Qualities Are Better. CLIPPING DAY TOMORROW. Rare, Indeed, Are the Values Offered In This Clipping Event For Tomorrow. These monthly events, extremely popular, during the days of normal price, have become doubly so, now that living costs are soaring daily to dizzy heights. To-morrow's values possess unusual importance. 7c value. Machine Oil, bottle, Clipping Price, 4c. 5c value. Asbestos Iron Holders, Clipping Price, 3c. 10c value. Spool Holders, Clipping Price, 4c. 10c value. Spool Ribbon, 10 yds., Clipping Price, 3c. Lot of 25c plain and fancy Ribbons, Clipping Price, 15c. Lot of 25c value Ladies' Corset Covers, 34 size, Clipping Price, 15c. Lot of 25c value Box Stationery, Clipping Price, 19c. Lot of 25c value Ladies' Drawers, 23-inch, Clipping Price, 15c. 25c value. Children's Skirts, Clipping Price, 14c. 19c value. Children's Drawers, Clipping Price, 11c. 25c value. Ladies' Brassieres, Clipping Price, 15c. 25c value. Net Chemisettes, Clipping Price, 11c. 50c value. Ladies' Collar and Cuff Sets, Clipping Price, 11c. 25c value. Ladies' Vests, Clipping Price, 15c. 25c value. Ladies' Small White Collars, Clipping Price, 15c. Ladies' Colored Collars, 25c value, Clipping Price, 11c. 50c value. Ladies' Lace Vests, Clipping Price, 25c. 10c value. Men's White Handkerchiefs, Clipping Price, 5c. 19c value. Box Stationery, Clipping Price, 12 1/2c. 19c value. Men's Hose, Clipping Price, 15c. 39c value. Men's Ties, Clipping Price, 25c. A Lot 19c value. Children's Blue Stockings, Clipping Price, 9c. 12 1/2c value. Infants' Brown Stockings, Clipping Price, 5c. 15c value. Gold Band Plates, Clipping Price, 9c. 25c value. Round Tin Dinner Buckets, Clipping Price, 17c. 39c value. Flannelette Dutch Suits, Size 2, Clipping Price, 25c. 25c value. Brilliant Brooch Pins, Clipping Price, 15c. 15c, 19c and 25c value. Soiled Booties, Clipping Price, 3c. 19c and 25c value. Stamped Collars, Clipping Price, 5c. 25c value. Ladies' Soiled Vests, 17c value, Clipping Price, 11c. 5c value. Curtain Rods, Clipping Price, 3c. 25c value. Black Grip Lunch Boxes, Clipping Price, 13c. 39c value. Cretonnes, mostly light patterns, Clipping Price, 25c. 15c value. Napkins, mercerized, Clipping Price, 11c. 35c value. Men's Garters, Clipping Price, 25c. 25c value. Children's Soiled Flannelette Skirts, Clipping Price, 17c. 25c value. A. B. C. Oatmeal Dishes, Clipping Price, 8c. 15c value. Silver Plated Bonbon Dishes, Clipping Price, 7c. 15c value. Silver Plated Individual Salts and Peppers, Clipping Price, 8c. 15c value. Gold Band Plates, Clipping Price, 9c. 25c value. Round Tin Dinner Buckets, Clipping Price, 17c. 39c value. Flannelette Dutch Suits, Size 2, Clipping Price, 25c. 25c value. Brilliant Brooch Pins, Clipping Price, 15c. 15c, 19c and 25c value. Soiled Booties, Clipping Price, 3c. 19c and 25c value. Stamped Collars, Clipping Price, 5c. 25c value. Ladies' Soiled Vests, 17c value, Clipping Price, 11c. 5c value. Curtain Rods, Clipping Price, 3c. 25c value. Black Grip Lunch Boxes, Clipping Price, 13c. 39c value. Cretonnes, mostly light patterns, Clipping Price, 25c. 15c value. Napkins, mercerized, Clipping Price, 11c. 35c value. Men's Garters, Clipping Price, 25c. 25c value. Children's Soiled Flannelette Skirts, Clipping Price, 17c. 25c value. Lace Curtains, Clipping Price, 25c. 20c value. Huck Towels, white, extra size, Clipping Price, 15c. 12 1/2c value. Turkish Towels, Clipping Price, 11c. 33c value. Table Damask, 58-inch width, Clipping Price, 29c. 12c value. Apron Gingham, Clipping Price, 10c. 19c value. Rice Voile and fancy Stripes, Clipping Price, 10c. 39c and 50c value. Dress Goods, Clipping Price, 25c. 25c value. Poplins, all colors, 27-inch width, Clipping Price, 18c. 19c value. Curtain Scrims, colored border, Clipping Price, 15c. 20c value. Silkoline, 36-inch width, Clipping Price, 15c. 12 1/2c value. Plain White Laces, Clipping Price, 10c. 25c value. Stamped Linen Pin Cushions, Clipping Price, 15c. 15c value. Napkins, mercerized, Clipping Price, 11c. 18c value. White Pique, Clipping Price, 25c. 2 yards for 8c. 36-inch width. Shepherd Checks, 38c value, Clipping Price, 25c. Lot of 50c value Bungalow Aprons, "seconds", Clipping Price, 29c. 15c value. Part Linen Crash, Clipping Price, 12 1/2c Yd. 36-inch width, 50c value, Stamped Union Linen Centerpieces, Clipping Price, 25c. 15c value. Glass Spoon Holders, Clipping Price, 7c. 15c value. White Check Lawn, 27-inch width, Clipping Price, 25c. 2 yards for 8c. 50c value. Drawn Work Pillow Shams, Clipping Price, 25c. 15c value. Dressing Combs, Clipping Price, 9c. 15c value. Pin On Supporters, Clipping Price, 9c. 7c value. Snap Fasteners, Clipping Price, 3c. 3c value. Hooks and Eyes, Clipping Price, 1c. 5c value. Featherstitch Braid, Clipping Price, 3c. 5c value. Tomato Pin Cushions, Clipping Price, 3c. 25c value. Plain and fancy Ribbons, special lot, Clipping Price, 29c. Lot of 50c value plain and fancy Ribbons, Clipping Price, 39c. 10c value. Venise Edges, Clipping Price, 5c. 10c value. Filet Laces, Clipping Price, 5c. 29c value. Oriental Laces, Clipping Price, 19c. 25c value. Corset Cover Embroidery Clipping Price, 15c. 25c and 50c value. Stamped Made-up Corset Covers, Clipping Price, 19c. 25c value. Stamped Made-up Boudoir Caps, Clipping Price, 10c. 36-inch width, 50c value, Stamped Union Linen Centerpieces, Clipping Price, 25c. 15c value. 12-inch Stamped Linen Doilies, Clipping Price, 8c. 50c value. Drawn Work Pillow Shams, Clipping Price, 25c. 15c value. Dressing Combs, Clipping Price, 9c. 15c value. Pin On Supporters, Clipping Price, 9c. 7c value. Snap Fasteners, Clipping Price, 3c. 3c value. Hooks and Eyes, Clipping Price, 1c. 5c value. Featherstitch Braid, Clipping Price, 3c. 5c value. Tomato Pin Cushions, Clipping Price, 3c.



Soutter's 1c to 25c Department Store. Where Every Day Is Bargain Day. 215 Market Street. Opposite Courthouse.

Knitters! Attention! Miss Mary Robinson, of Philadelphia a competent teacher, will demonstrate in our Art Needlework Department for a few days, to beginners the first steps in knitting, and to the experienced how to master the new stitches. This demonstration is being conducted in conjunction with a Display of Golden Fleece Yarns in which is being offered an excellent assortment of yarns of all colors. Be sure to attend!

Sensation Sale of Stylish Millinery Now in Full Swing. The seasons most exclusive shapes in dress and tailored hats to suit all ages and types. Rich Lyon Velvets, Panne Velvets, Hatters Plush and Velours, in Turbans, Toques, Straight, Sport and Dress Sailors, medium and small Mushrooms, Tricornes, etc. At a Fraction of Their Actual Worth