

**PURDUE STEAM
STUDY TO BRING
BETTER ENGINES**

Turbines, Power Generating
Equipment Expected
to Be Improved.

Times Special
NEW YORK, Dec. 5.—Working with steam heated to 1000 degrees, Purdue University staff members reported at the annual meeting of the American Society of Mechanical Engineers new facts which are expected to mean improvement of turbines and steam power generating equipment.

Submitted by G. A. Hawkins, the report covers a project conducted in collaboration with Dean A. A. Potter and Prof. H. L. Solberg.

Viscosity of water and super-heated steam, Mr. Hawkins told the society, is the resistance of the fluid to flow, and has been a problem confronting designers of steam-producing and power equipment.

Much Known Before

Until the investigation was undertaken at Purdue, he said, viscosities of water were known for temperatures only up to 320 degrees, and of super-heated steam for pressures only as high as 135 pounds per square inch.

In the tests at Lafayette, he explained, viscosities of water were determined for as high as 700 degrees, after which the element loses liquid form, and for steam at pressures as high as 3500 pounds per square inch. Steam at high pressures, Mr. Hawkins stated, increases in temperature and the high point reached, 1000 degrees, turned the pipes red.

Viscosities of the superheated steam, he revealed, were determined by timing the speed at which a steel body fell through an accurately bored stainless steel tube containing steam at varied pressures and temperatures. Because it was impossible to observe the movement of the body, its fall was measured by using a three-stage radio amplifier in an electrical circuit, which traced the movement on a chart driven by an electric clock.

TOWN DADS FACE CRISIS

Police Force of Two Resigns; New Year's Resolution in Order.

Times Special
KNIGHTSTOWN, Ind., Dec. 5.—It may be early, but the Town Board here is pondering a New Year's resolution. At their last meeting members accepted the resignations of Day Marshal Charles Clark and Night Marshal Andrew Judd. Since both officers are quitting Dec. 31, the board must either "resolve" successors or leave the town with no police protection for 1936.

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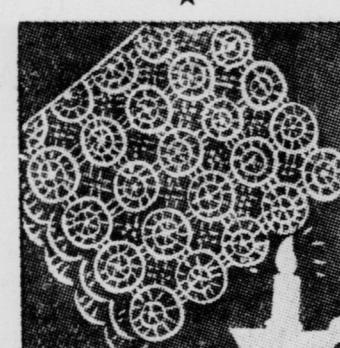
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**Rayon Taffeta
Drapes & Spreads**

Both \$4.28

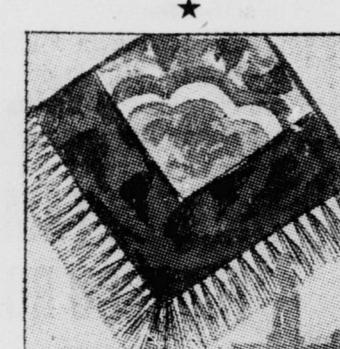
Matching "Pepperell" Rayon drapes and spreads. Drapes ready to hang (\$1.59 pr.). Spread with corded panel top. Full size. (\$2.69.)



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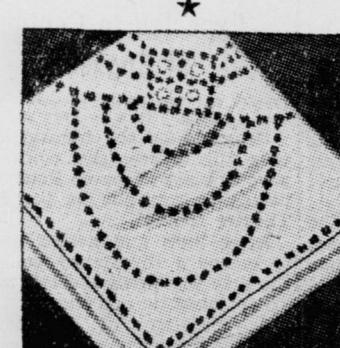
Lace scarfs in heavy and fine quality laces. Woven in sections which may be cut up into various matching pieces.



**Hand-Made "Haddads"
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Each scarf hand made by skilled artists. Choice of many colors. Red, green and brown predominate color scheme.



**Candlewick
Bedspreads**

\$2.50

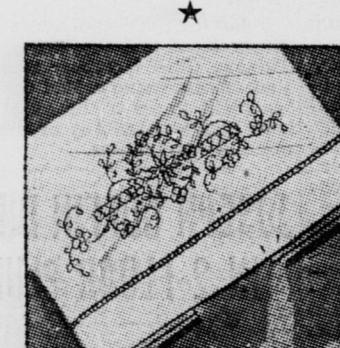
A lovely candlewick pattern with lots of tufts in blue, red, green, gold and combinations of brown and gold, brown and rust.



**Size 72x84
Beacon Blankets**

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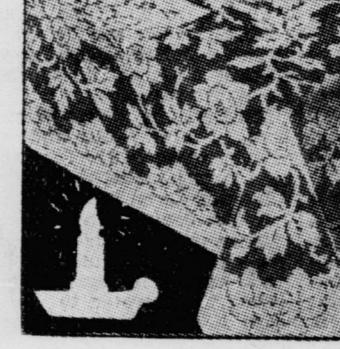
Solid pastel shades with a gorgeous jacquard border. These are individually boxed—ready for Christmas morning.



**Embroidered Pair
Pillowcases**

\$1.00 Pair

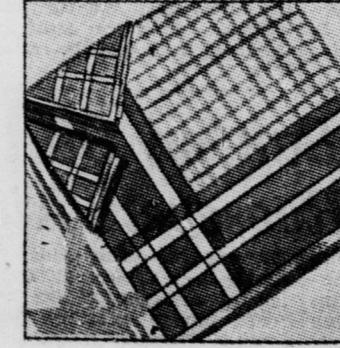
A pair in a gift box with lovely machine embroidery. In 4 very beautiful designs. Made of 80-square muslin. Regular size.



**"Cavalcade" Pattern
Lace Table Cloth**

\$1.98

A new pattern called "Cavalcade," beautiful and handsome. Sizes 62x80, 72x72 and 72x90-inch sizes at this price.



**Colored Linen
Breakfast Set**

\$1.59 Set

Print or woven plaid linen crash sets in a variety of patterns and colors. Blue, red, green, gold and brown colors.



**Size 52x52 Linen
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Sizes 52x68 and 57x57-inch at \$1.19. Size 58x78-inch at \$1.39. A wide selection of styles with colored borders.

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**Brand New Styles for Every Holiday
Occasion—For Women, Misses
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2 For \$11
(1 Dress \$5.98)

Sizes!

11 to 17
38 to 52

14 to 20
18½ to 24½



A brand new group of 1935 dress fashions at a brand new low price! Rushed from New York to Ayres, to you for this special event in the Annual December Dress Sale. Brilliant new styles with fashion's stamp of approval for every occasion. Hand picked for color smartness and style detail and correct size assortment for every woman.

For Business	Brown	Flesh
For Street	Wine	Red
For Afternoon	Pastels	Rust
For Dancing	Royal Blue	Dark Brown
For Dining	Blue	Chocolate Brown
For Evening	Green	Matelasse
Bar Dresses	Orange	Stardust
Shirtwaist Types	Gray	Satin
Tailored Types	Gold	Crepes
Navy	White	Alpacas
Black	Pink	Taffeta

—Downstairs at Ayres.

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**69c
PAIR**
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Every newspaper carries dispatches of rises in prices of raw materials. Raw silk is no exception, therefore the price of silk hosiery must soon increase in proportion. BUT HERE is astounding good news—our Annual Pre-Christmas Sale of lovely first quality La Sayre Silk Stockings offers you a splendid opportunity to save your Christmas gift dollars by stocking up now! Every pair made to our strict specifications for workmanship, materials, beauty and sheerness. Sizes 8½ to 10½.

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—Downstairs at Ayres.