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HILL'S



FIND VALUES IN WASTE PRODUCTS

U. S. Government Specialists Make Progress in Farm Investigation

By Coleman B. Jones
(Associated Press Science Editor)
WASHINGTON (AP)—Bureau of standards research specialists in less than six months have made distinct progress in their special in-

vestigation to find a profitable outlet for waste products of the farm. When congress made \$60,000 available for this work last July it asked the bureau to determine the agricultural waste that would bring the farmer the most money for his crop through development of industrial by-products.

After a survey of farm wastes Dr. W. E. Emley, chief of the bureau's division of organic and fibrous materials, in cooperation with other agencies, put specialists to work on four major lines of research, concentrating on cornstalks, peanut shells, cotton burs and cotton seed hulls.

The huge corn crop is the outstanding example of farm waste in the United States. More than 80 per cent of the stalk is lost, despite the excellent methods for making fiber wallboard from the stalks have been known for some time, and there is a growing market for this material, due to its development from sugar cane waste. The bureau's main problem here was to get accurate information on the cost of production.

In co-operation with Iowa State college an efficient plant has been set up and it is expected to begin operation soon on a semi-commercial basis. It will be manned largely by bureau experts and directed by Prof. G. H. Swarney of the college. Dr. Emley expects it to demonstrate that more than 20 per cent of the cornstalk can be utilized in production of good wallboard, the remaining waste being water and other substances.

In addition, the scientists hope to work out a method for treating the stalk so that the gum it contains will be saved and automatically provide a natural binder, eliminating the necessity of adding resin.

Since the economy of the method is demonstrated, Dr. Emley believes that commercial plants having an annual capacity of 100,000 tons of material can be set distributed throughout the country that each could be supplied with its raw material from farms within a radius of 25 miles. The lack of timber in that section, he thinks, would give them a good nearby market.

The investigation of peanut shells presented a somewhat different problem. Although it was known that certain non-edible sugars could be extracted from them, it remained for the bureau to find the best process. That work has progressed to the point where it is now possible to take out more than 45 per cent of the shell, by weight, in the form of xylene, from which certain organic acids can be obtained by oxidation. The bureau hopes to demonstrate that these can be made useful to the soft drink and tanning industries. The residue can be made into wall-board simply by pressing.

Study of the cotton burs had to start at the beginning. Since the introduction of mechanical cotton picking in Texas thousands of tons of burs are collected at the gins every year. The bureau's analysis has not gone far enough to indicate a method of disposing of them profitably.

In experimenting with cotton seed hulls and the bran made from them, which as a cattle feed has

been subject to wide price fluctuations, the investigators have determined that they will yield twice as much furfural as oat hulls, now utilized for its commercial production. The largest market for furfural at present lies in the manufacture of synthetic resin as a substitute for formaldehyde.

In addition to the chief by-products of all of these waste, Dr. Emley says, the residue of each offers the possibility of yielding a rather pure cellulose, which can be utilized in making artificial silk.

In making curtains from material that has a decided pattern, he is sure to match the design on each half of the curtain. To do this, measure the necessary number of lengths on the goods in the bolt before cutting. Some waste, however, will be almost unavoidable.



We do not wish to set an exceptionally low price on potatoes, as we understand the regular market price for No. 2 spuds is 60c per 100 and \$1.25 for the No. 1s. But a farmer is out of Christmas money and his children are looking rather sorrowful and he wants to sell about 100 sacks of No. 2 spuds. Netted Gems, for 45c a sack, you had them yourself. He is going to bring a bunch of them here and let you come and get them. After they are gone the price will be the same old standard price, 60c and \$1.25. I told him I would tell you folks about it and see what you would say.

Then there is another matter that I wish to speak of, but I guess I will let that go this time as it is liable to cost me too much for advertising.

Well, I have changed my mind again. I guess I had better tell you that we are setting lots of Lino glass. It is good for porches, chicken houses, hog houses, sick rooms; good for big hens, little hens, little chicks, big sows, little sows and little weep pigs. It is good for big people, little people and little weeps, teeny babies to play and kick in the sunlight of Lino glass. It develops brain power even to talk about it.

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Neatly dressed Mama Dolls, in several sizes. Some of these were marked 3.50, now very special **2.35**



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Regular 6.50
Sturdily constructed set. **4.90**
Folding type table, leatherette top. Coordinated in appealing colors.


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Finished in Golden Oak. Priced regular at 2.25. Well constructed, will not squeak. **1.95**



Scooter
12" spokes, wheels, equipped with foot levers. Regular 5.25. **4.50**



Doll Cribs
Regular 2.00
Finish in Ivory. Well constructed for medium sized doll. A good value. **1.50**

At Half Price

Zulu Game now 50c
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Elephant now 65c
And Others



Doll Buggy
Lacquered in French gray. Wire wheels. An appreciated gift. Regular 3.50 value. **2.95**



Express Wagon
Natural finish. **1.65**
Hulldwood construction throughout. Wood wheels. Regularly 2.00.



Sand Loader
Regular 1.50
A small mechanical toy at half price. Similar toys on our bargain counters. **50c**

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MONTE BLUE in **"The Brute"**
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Feature picture 7 p.m.
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Followed by Feature
Admission 25c - 50c

Carr Furniture Co. Inc.

Paths of Colorful Pair Cross When Cochran Meets Jake Schaefer

NEW YORK (AP)—Few figures in any branch of sports have had more of the colorful and spectacular in their careers than Walter Cochran, present 152nd billiard champion of the world, and young Jake Schaefer, who meets him for the crown in a 5,000 point match at the Pennsylvania Hotel here, December 15 to 21.

From the time in 1921 when young Jake scored a dramatic victory over Willie Hoppe, the champion, who had taken the title from old Jake, his father, the younger Cochran and Schaefer have stood side by side in the spotlight.

In his first match in defense of his title at Chicago recently, Cochran contributed a characteristic bit of drama in beating the stolid German, Eric Hagenaecher, after entering the final block, 288 points to the lead.

Both Cochran and young Schaefer were tested in the crucible of world's championship play for the first time in the tournament of 1923. Their debuts indicated what might be expected of them later. Cochran outscored the billiard world with a run of 765, the highest ever made up to that time in championship play, and Schaefer scored a five-inning victory over Kōji Yamada, Japanese expert.

The only fault to be found by the critics was that the youngsters were inconsistent. Sporadic flashes of greatness were followed by dismal slumps.

mark that is apt to stand for years. Winning the bank against Eric Hagenaecher in the seventh game of the tournament Schaefer ran out the game, never giving his opponent a shot. His run of 400 the same number. A third was his grand average of 57.14, which is unbroken to this date.

In warding off the challenges of Edward Horemans, of Belgium, who finished second in the tournament, Schaefer set out for more records. One was a run of 432 and the other was an amazing average of 93.75 for 1,500 points.

The tournament of 1926 in Washington found Cochran performing feats only surpassed by the records of Schaefer. He won the tournament with a grand average of 54.11-43, had a best game average of 80 and had the only runs of 290 or better, making 229, 233 and 239. In defense of the title against Hagenaecher he seemed hopelessly beaten until he overhauled his rival with a cluster of 407 and when holed again ran out the match with an unfinished run of 157.

At 184 bilkline both have shared the spotlight. In 1927 Schaefer set a world's record of 241 and on October 19 of this year Cochran he is not a candidate for the press-over-shadowed it with a run of 251. Now we'll have to be keeping an eye on him, too.

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"Oninazip"
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Buccaneer boots, gray and tan tops—
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Comfort Slippers for Christmas
Pretty colors in felt and leather. Come in and see them.

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