

BIG INCREASE IN GASOLINE OUTPUT POSSIBLE, CLAIM

Washington, June 12.—Possibility of increasing the output of gasoline by 120,000,000 gallons through more complete condensation of still vapors at the petroleum refineries, was suggested today by the bureau of mines after an investigation by D. B. Dow, the bureau's petroleum engineer. Mr. Dow estimated that 50,000,000 gallons were recovered from uncondensed still vapors at refineries in 1921.

"Application of the system to all refineries, would give a possible gasoline recovery by this method of 170,000,000 gallons yearly," the bureau said in a statement.

"The calculations of the bureau of mines are based on the results obtained in refineries whose general methods are more efficient than those employed in the hundreds of smaller skimming plants that have no recovery systems. It is assumed that in the less efficient skimming plants, located in sections where the supply of cold water, so essential for condenser use, is scarce, greater recoveries could be made than in the large refineries studied. This should be especially true of Oklahoma, north Texas, and Louisiana skimming plants, where summer temperatures are high and where cold water is scarce. A survey of these plants, it is believed, would show that their losses in uncondensed still vapors would be much higher than in the plants where the studies of the bureau of mines were conducted.

"The magnitude of the loss from non-condensation of these vapors has been realized only by few refineries, judging from the number of plants that have recovery systems. The thirteen refineries studied by the bureau of mines are obtaining 128,651 gallons of gasoline daily from uncondensed still vapors. These plants are situated in the various refining centers, other than the Pacific coast, and are running crude representative of all the producing fields east of the Rocky Mountains. In addition, several are running Mexican crude. Information from California refineries indicates that on account of the smaller gasoline content of the California crude, there are no recovery plants of importance in that state. The average recovery of gasoline at the refineries investigated by the bureau of mines amounted to four tenths gallon per barrel of crude oil charged.

"Unless preventive measures are adopted, losses of gasoline from failure to condense still vapors will increase in the future, because crudes are being handled in the field with more and more care to avoid evaporation, and will therefore contain much lighter and more volatile fractions than at present."

Hurricane

(Continued from Page One.)

and early today the police reported that the list of known dead had not been augmented.

More than 50 persons were thought to have lost their lives and upwards of 100 were injured in the tempest, which roared out of the hills of northern New Jersey, beat the Hudson into foam-capped breakers, swept across New York City and then seemed to center its wild energy on City Island and vicinity.

Launches Capsized.
Thousands of rowboats and launches dotted the sound of City Island just before the breaking of the storm; when it had passed the water was strewn with overturned craft and the buildings on shore resembled a battle-torn vil-

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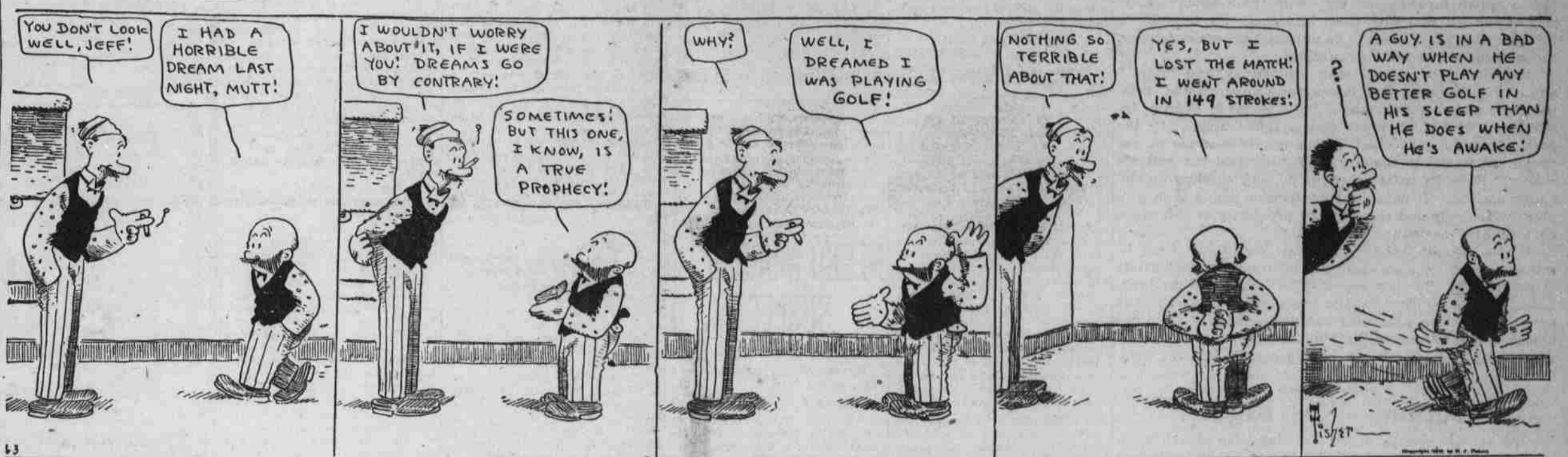
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lage in no man's land. Many parties hurrying for safety saw people struggling in the water, but dare not stop for fear of capsizing their own craft. The rescue work started immediately, but darkness and the panic-stricken crowds hindered the labors of the volunteer life savers.

Property damage estimated at from \$1,000,000 to several times that amount was done by the tornado. The storm followed a day of intense heat and was as sudden as it was violent.

Ferris Wheel Wrecked.
Clason's Point, a pleasure ground near City Island was in the direct path of the hurricane, a Ferris wheel heavily freighted with children and young people had just begun to revolve with its passengers when the wind struck it. So sudden was the transition from a bright June sky to inkly clouds that the men in charge of the wheel could not stop it and discharge the people in the cars

before the top of the wheel was torn away and the remainder crashed to the ground, a tangled skein of steel. Dozens were buried in the wreck. Six bodies were taken out later and more than two score were attended by ambulance surgeons. A seventh victim died this morning.

Frail buildings were crushed by the mighty weight of the wind; electric wires were torn down and in the darkness and torrential rains the rescuers could do little until the storm had subsided. Hysterical men and women, tearing blindly at the wreckage, hindered rather than helped the workers engaged in lifting ruins of the wheel.

Trees Are Uprooted.
Huge trees in Central park were uprooted and tossed across driveways. Five people were hurt

when the wind blew out great plate glass fronts of stores along Broadway and scattered haberdashery and clothing along the street. In Brooklyn lightning struck a street car and knocked six passengers unconscious.

Electric signs along the white way seemed special targets of the cyclonic wind. A huge sign extolling the virtues of an automobile tire was torn loose from its moorings, toppled over onto a skylight, carried a smaller sign with it in its plunge and started a fire from disconnecting wiring.

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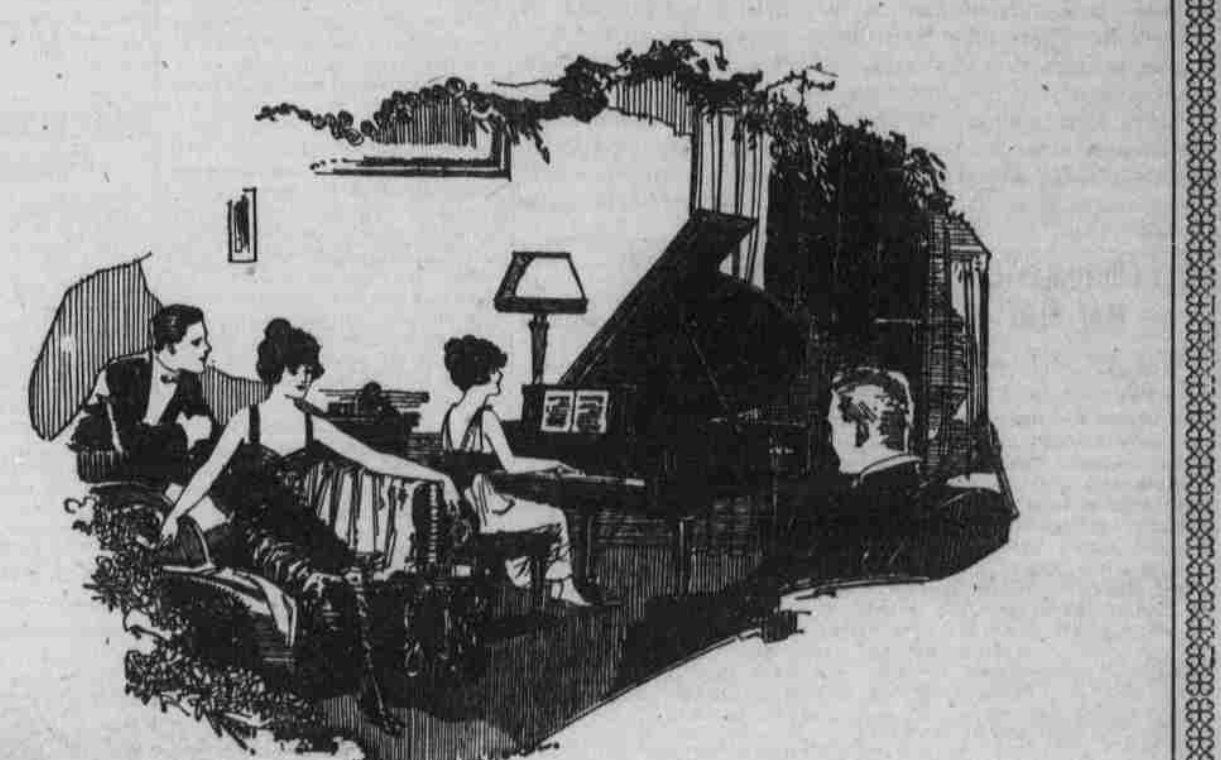
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