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**BADGERS TAKE FIRST**

WIN BIG EVENT AT DRAKE RELAY GAMES SATURDAY.

**NEBRASKA DOES NOT PLACE**

Husker Represented in Half and Mile Events, Which Are Taken by Chicago and Missouri—Record Time at Four Mile and Half Mile Distances.

Des Moines, Ia., April 11.—The University of Wisconsin won the four mile relay, the big event of the annual Drake games, in a spectacular finish in which Harley of Wisconsin spurred ahead of Carroll of Michigan in the last one hundred yards. Neither Nebraska's representatives at the game, finished within the money, although they made strong bids for places, especially at the half-mile distance. In this event, Zumwinkle, who ran the last lap for the Huskers, narrowly missed placing after a magnificent race in which he overcame a large lead held by Chicago, Ames, Drake and Missouri.

The four-mile race was featured by record time, all six teams finishing under the former record of 18:36 2-5, made by Northwestern in 1912. Wisconsin's time today was 18:04 2-5, which will probably stand for several years to come. Another stadium record was broken when Chicago, in the half-mile, clipped a second off the record which she established a year ago of 1:31. The Maroon school was robbed of another record to her credit when she was disqualified in the one-mile, the race going to Missouri in another new record time of 3:23 1-5. The remaining event of the university division, the two-mile event, was taken by Purdue.

**Summary of Events.**

Two-mile university: First, Purdue (East, Large, Campbell, Vanaken); second, Northwestern; third, Kansas; fourth Ames. Time 8:01 3-5.

One-mile college: First, Coe (Massey, Purmort, Lighter, Bailey); second, Grinnell; third, Des Moines; fourth, Cornell. Time, 3:28. New stadium record. Former record 3:29, made by Coe in 1912.

One-half mile university: First, Chicago (Knight, Ward, Breather, Barscik); second, Ames, Drake; fourth, Missouri. Time, 1:30. (New stadium record.) Former record made by Chicago, 1914, 1:31.

Four-mile university: First, Wisconsin (Schardt, Merrill, Hedges, Harney); second, Michigan; third, Chicago; fourth, Minnesota; fifth, Kansas; sixth, Illinois. Time, 18:4 2-5. (New stadium record.) Former record Northwestern 18:36 2-5, 1912. All six teams ran under former record.

One-mile university: First, Missouri (Murphy, Eaton, Wyatt, Niedorp); second, Northwestern; third, Minnesota; fourth, Iowa. Time 3:23 1-5. (New stadium record.) Chicago came in first, but was disqualified.

One-mile college: First, Coe (Bailey, Rife, Massey, Lighter); second, Grinnell; third, Cornell; fourth, Dubuque. Time, 1:31 4-5.

Two-mile college: First, Morningside (Walker, Lavey, Morely, Curry); second, Carleton; third, Cornell; fourth, Coe. Time 8:15. (New stadium record.) Former time 8:28 4-5, made by Morningside, 1912.

In the high school division, the following were the results:

Half mile: First, Fort Dodge; second, North Des Moines; third, Newton. Time, 1:36 4-5.

Two mile: First, Cedar Rapids; second, Marshalltown; third, West Des Moines. Time 8:38 3-5. (New record.)

Shuttle: First, North Des Moines; second, Newton; third, Cedar Rapids.

One mile: First, East Des Moines; second, Cedar Rapids; third, Clarion. Time, 7:03 2-5.

**INCREASES HEAT OF COAL**

Sound Reasons Why the Addition of a Little Water Should Produce Good Results.

When the blacksmith desires the intensest heat his forge is capable of he invariably throws a little water upon the coal. The same course is pursued by the stoker who would get the utmost from his boilers.

And the poorer the quality of the coal the more imperative the necessity for wetting it.

It seems paradoxical, for from the beginning all people everywhere have regarded water as the one reliable agency for extinguishing fire. Such, indeed, it really is, if used in proper quantity, as experience has amply demonstrated.

Chemistry explains the paradox very simply, however, when it informs us that water is composed of oxygen and hydrogen in the proportion of two to one. That is to say, in every molecule of the fluid there are two atoms of the former and one of the latter.

Now oxygen is the chief agent in combustion. Oxydization is a synonym for burning. The rusting of iron, the corrosion of silver and the burning of wood are identical processes, all due to the agency of this powerful element which is so widely distributed through all nature. To feed oxygen to flames is greatly to intensify them, therefore. This is exactly what is done, in fact, when they are fanned.

Hydrogen, on the other hand, is a gas which burns readily and with the most intense heat.

Very evidently, if water is separated into its constituent elements, the oxygen and the hydrogen, no longer bound together, are able each to perform its natural functions. The former adds greatly to combustion, and the latter not only burns readily, but materially intensifies the heat.

This is precisely what occurs when a small quantity of water is added to the coal fed to the flames. There is not enough of the fluid to extinguish the fire. Instead the fire acts upon the water, dissolving the bonds which unite its component gases, thus setting the oxygen free to accelerate combustion and converting the hydrogen into fuel of tremendous heating power.

In throwing a little water upon the coal therefore, the blacksmith attains the same results as if he added materially to the draft produced by the bellows, and at the same time poured a little hydrogen upon the flames. The resultant heat is not to be produced from coal alone under ordinary conditions.

**Icebergs and Sea Water.**

That the temperature of sea water rises slightly near an iceberg, as one man of science has asserted, is a conclusion not borne out by the investigations of the bureau of standards. During the summer patrol of the United States steamships Chester and Birmingham in the North Atlantic, members of the staff of the bureau took automatic records of the temperature of the water. The records show that changes of temperature in the sea far from icebergs are at least as great and sudden as the changes near them, and that they do not point to the presence of icebergs. They find also that an iceberg more often lowers than raises the temperature of the water near it. These conclusions are identical with those arrived at by the observers on the Scotia, which was sent out to the Newfoundland banks by the British Board of Trade in the summer of 1913, except that they more often observed small rises of temperature in the neighborhood of icebergs.—Youth's Companion.

**Hoarseness.**

As soon as you have any indication of hoarseness take a large fresh lemon and bake it until it is soft, squeeze out the juice and sweeten. Take a teaspoonful every 15 minutes until relieved.

**Leave Boots in Trench Mud.**

A private of the Welsh Fusiliers, who is among the wounded who reached Cardiff recently, said:

"I have seen men in the trenches pulling at their boots for over twenty minutes in an effort to get out of the mud, and finally going without their boots, which are doubtless there now."

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