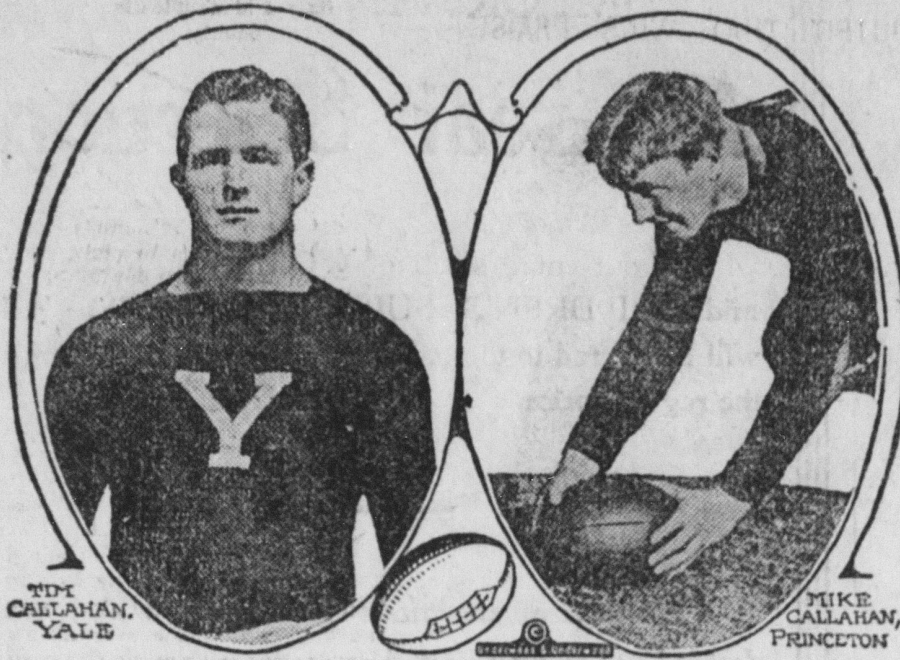


TWIN BROTHERS ARE OPPOSING CENTERS



Callahan Brothers Play on Opposing Teams.

One of the most remarkable rivalries ever seen on the gridiron, if not in all athletics, is that between Mike and Tim Callahan, twin brothers, who are opposing centers on the Yale and Princeton football teams.

Left—Tim Callahan, captain and center for Yale.

Right—Mike Callahan, captain and center for Princeton.

Tim and his brother resemble one another in build and both also have wonderful football records behind them. The Yale captain during the war was in the navy and a member of "Cupid" Black's eleven. His play came very near gaining him an All-American service team position.

In some cases brothers are starting on the same teams. Yale has the Wells twins, one of whom is playing a halfback position on the varsity team, while the other as a lineman on the second team is fast making a name for himself. The Horweens are two of Harvard's best backfield players, Ralph doing the punting.

Pennsylvania has a pair of nifty ends in the Miller brothers, both of whom are stars of the brightest luster. Helnie formerly captained the Quakers, while this is Ray's first year as a varsity player. Northwestern university also has a pair of ends who are brothers, and twins, the Marrows.

FRED PLAISTED KEEPS BERTH

Veteran Will Have Charge of Rowing Equipment at Columbia—Will Do No Coaching.

Fred Plaisted, who for five years was assistant coach in charge of the Columbia University freshmen crews under direction of Jim Rice, has been re-engaged by the Columbia authorities to serve as general assistant at the Union Boat Clubhouse, where the Columbia oarsmen will make their headquarters. Plaisted will not be required to do any coaching because of his advanced years, but he will have full responsibility for keeping the barges, racing shells, sweeps and all other equipment at the boathouse in order.

Plaisted is one of the best known of professional oarsmen this country has developed. He was at his prime in the seventies, when the Ward brothers were sweeping all before them. He won many races, both as a single sculler and teamed in crews with other professionals. His first college engagement was with Bowdoin and later he was in charge of all equipment at Yale. He first came to Columbia in



Fred Plaisted.

1913 and served as Rice's assistant. He continued with the Blue and White oarsmen last season, and was nominally in charge of the crew, although he divided authority with Eugene Giannini.

BAR ALL GERMAN ATHLETES

Will Not Be Permitted to Participate in Olympic Games in 1920 in Belgium.

German and Austrian athletes have been barred from the Olympic games in 1920 and may be perpetually disfranchised from participation in all international sports.

This announcement was made recently at a dinner at the University club by Elwood S. Johnson, director of "Y" athletics in the A. E. F., who has just returned from a conference with the Belgian Olympic committee. By mutual agreement the enemies of the allies will be denied admission next year, and France and Belgium will propose to make the ineligibility perpetual, Johnson said.

The games will be held next year in an immense stadium outside of Antwerp that was built by the Germans during their occupation and used for training soldiers and their "turn-ovens."

WATCHES ILLS OF MINNESOTA GRID TEAM



Coach H. L. Williams, Gopher Mentor.

Out near the campus of the University of Minnesota there is a doctor's office. The gold-leaf letters on the door announce to the world that it is the sanctum of "Dr. H. L. Williams, physician and surgeon. Office hours, 1 to 2." He does hand out pills to some extent, but not much during the months of September, October and November. "Not In" is the sign on "doc's" door for that period, and if a patient must see him he'll have to search for the M. D. amid the scramble on Northrup field.

During the months aforesaid, the chief task of this physician is to diagnose the ills of the Minnesota football team and to provide adequate remedies suitable for insuring the Gopher institution the annual supremacy of the Big Ten. Year after year Coach Williams has turned out championship elevens at Minnesota and if occasionally he fails to land on the topmost rung of the ladder, his proteges will be found in that immediate neighborhood.

The Gopher mentor is about the most wily of the conference and the despair of the Big Ten scouts. The gates of Northrup field are closed early in the season and few university men ever see the players until the referee's whistle blows for the start of a game. In addition to the famous Minnesota shift, Williams devises special plays for every team on his schedule and the type of play used in one game is no indication of what he may unwork for the next tilt.

PRESIDENT EBBETS HAS IDEA

Brooklyn Executive Believes Baseball Stands Should Accommodate 70,000 People.

President Charles H. Ebbets of Brooklyn, who has many wise ideas in his bonnet, declares his belief that baseball grand stands should be rebuilt to accommodate 60,000 or 70,000 people, with popular prices charged.



President Charles H. Ebbets.

five days a week and extra admission taxed for Saturdays and Sundays. He thinks the fans would show such interest and attendance under that plan that the clubs would make more money. Mr. Ebbets' idea of popular prices is nothing under 50 cents for a seat.

OLD BOYS ARE TENNIS STARS

More Veterans of Advanced Middle Age Seen in Game Than in Other Form of Athletics.

Tennis, although calling for speed and endurance to an unusual degree, can show more veterans of advanced middle-age than any other form of athletics. Two of the four semi-finalists in the All-England tournament at Wimbledon were well over 50. They were Ritchie and C. P. Dixon. Dixon nine years ago forced W. A. Larned, then among America's best, to go five sets in the Davis cup matches, while Ritchie was runner-up for English championships in 1902, 1903 and 1904.

GIANTS STILL HOLD TITLE TO DOUGLAS

Phil Douglas, the Giant's erring pitcher, still is on New York club's roster even though he does not appear in the official list of reserved players for 1920 sent out last Friday by John Heydler, president of the National League.

"While Douglas is not included among the thirty-five players reserved by the Giants for the next season he is on the New York club's ineligible list," explained John Foster, secretary of the Giants, last night. "When a club places a player on its ineligible list he automatically is reserved by such a club, as he cannot make a move before he is placed back in good standing by the club which suspends him. Some clubs report their ineligible players, but it is not necessary to do so to reserve them."

LITTLE PICKUPS OF SPORT

Brown has a splendid tackle in G. Gulia. He is a freshman.

Miller Huggins is claiming next year's pennant for the Yanks.

Kid Bebee, a Quaker City pugilist, recently participated in his five hundredth contest.

Lawrence, Mass., boasts a new bowling arena, accommodating 15,000, which cost \$7,000 to equip.

James McLean has resigned as president of the National Horse Show association because of ill health.

Polly McLarry has been purchased from Binghamton by the Cardinals. This is fitting, Mr. McLarry being an undertaker by trade.

Greasy Neale, gardener of the world's champion Reds, loves football for the fun he gets out of it, and baseball for the kale he gets out of it.

The Western Canada league, which had a successful season, has decided to expand to a six-club circuit in 1920, Calgary and Edmonton have been added.

Jimmy Hill, the Australian featherweight, postponed his trip home in order to take on Benny Valger, only to be knocked for a goal by the New Yorker.

Pitchers Oeschger and Demaree of the Boston Braves, ran neck-and-neck in the struggle for batting honors this season. Oeschger finally winning out with an average of .054 to .048 for Demaree.

KILLING COOTIES OF CHICKEN YARD

Biting and Sucking Insects Are Serious Enemies of All Classes of Poultry.

PESTS DEVELOP DISCOMFORT

Mites and Lice Decrease Efficiency in Production of Eggs and Meat—Hens Become Irritable and Decline in Health.

(Prepared by the United States Department of Agriculture.)

O' Lady Hen doesn't object to scratching for a living, but she balks on scratching for worms all day and then having to scratch all night at vermin which delight in strolling over her during the era of darkness.

Fowl lice and mites reduce egg production, hinder the growth and reduce the quality of flesh of all classes of poultry. Mites are particularly bad among farm fowl, as these blood-sucking insects often gain a firm foothold in the flock before the farmer is aware of their presence. The hens become irritable and decline in egg production and healthy condition as a result of losing blood to the mites. In heavily infested coops it is not unusual for the chickens to become droopy and weak, with pale combs and wattles. The mites feed almost entirely at night, except that they attack hens on the nests during the daytime. They secrete themselves in cracks and crevices around the chicken house during the day, and hence their presence often is overlooked until a heavy infestation has developed.

Rout Mites From Roosts.

In controlling mites it is first of all essential to drive the pests from the roosts, nests and interior of the poultry house, which should be sprayed with a mixture of one part kerosene to four parts of crude petroleum. Ordinarily one application is sufficient, but as an extra precaution it is advisable to spray a second time about one month after the first treatment. Poultry should be kept out of the treated buildings until the material has well dried into the wood.

Arsenical dip, as a spray, such as is used to destroy cattle ticks, is also fairly satisfactory as a control for chicken mites; several applications are required to eradicate the mites from the poultry roosts. The mites which cause scaly leg usually can be eradicated by applying crude petroleum to the legs with a brush or dipping them into this oil. One treatment is usually enough.

Lice Like to Live on Poultry.

If poultry escape infestations of mites they are still exposed to visitations from lice, which, unlike the mites, remain constantly with the



Sodium Fluorid Probably Is the Best Lice Remedy.

fowl. More than forty different kinds of lice attack domestic fowls and feed on portions of the feathers or on scales from the skin, their presence in any considerable number resulting in serious injury.

Sodium fluorid means sure and instantaneous death to poultry lice, and in either the dust or dip form it is the practical control. This material in the dust form is applied by the "pinch" method, which consists in holding the fowl by the legs or wings in one hand, while with the other hand a small pinch of the chemical is placed on the head, one on the neck, two on the back, one on the breast, one on the tail, one near the vent, one on either thigh, and one on the underside of each wing when spread. This material may also be applied in a shaker consisting of a tin can with nail holes punched in the bottom, the chemical being mixed with road dust or flour.

RUSSIAN THISTLE IS USEFUL

It Has Been Used in Silo and Cut for Hay in Regions Where It Has Been Deemed Pest.

In regions where the Russian thistle has been considered a pest, it has been used both in the silo and cut for hay. When cut for hay the mower is started just as the spines commence to harden or even earlier.

ATTENTION GIVEN TO FEEDING FALL PIGS

Improvement in Their Care Is Urged by Professor Eward.

System of Feeding "Cafeteria" Style and Types of Houses Attract Comment—Pigs Are Pushed Along From Start to Finish.

At the Iowa agricultural experiment station at Ames, a great deal of attention has been given to fall pigs. Prof. John M. Eward, chief of swine production, has been a leader in advocating an increase in the number of fall pigs and in the improvement of their care. His system of feeding them "cafeteria style" and his types of hog houses have attracted much attention.

Professor Eward says: "For a number of years the animal husbandry section of the experiment station has been feeding pigs that come in the last days of August or during September. We push them from start to finish, until in April, and it is not unusual for them to weigh around 250 pounds, not so bad for pigs of eight months of age, fed right through the cold winter. Our fall pigs gain practically as well as our spring pigs. We have had fall pigs return us



Pigs Getting Their Dinner at Self-Feeder.

within five cents a bushel as much for the feed they ate as the spring pigs.

These fall pig "pointers" are offered out of the experience of the experiment station:

1. Keep the pigs warm and dry.
2. Keep the pigs sanitary, killing off the lice, worms and other parasites.
3. Feed them exceptionally well; in truth, feed them "free-choice style;" give them a chance at corn and tankage in separate feeders.
4. Give them plenty of water. It is not essential that you warm it, but a little warm water once or twice a day is all right.
5. Believe in the fall pigs and have faith in them and they will make good. If you do your part, they will.

VICIOUS BULLS ARE SAFEST

Gentle Animal Is Cause of Most Trouble, Because Little or No Precaution Is Taken.

The gentle bull has as many victims as the gun that isn't loaded, or the hunter who "thought it was a deer." It's the gentle bull that causes the trouble in most cases. "The bull had never before shown an ugly disposition," says one clipping. "The bull had always been considered gentle," says another; and so on through the list. Because the victims thought the bulls gentle, they took no precautions, which leads us to say: Never trust a gentle bull! Better look down the barrel of a rifle! "Bulls, like cold-storage eggs, should always be considered bad," a friend wisely said the other day. Warning about vicious bulls is seldom necessary, for nobody trusts them.

CONCRETE FLOORS ARE BEST

Conservation of Soluble Manure Makes Big Returns in Shape of Various Farm Crops.

By increasing the value of manure produced, concrete floors for feeding stables will return their cost in about one year, as shown by tests at the Ohio experiment station. The extra crop returns from manure kept on concrete floors is due to the soluble plant food in the manure; this seeps away where earthen floors are used. The cost of concreting floors generally amounts to about \$5 per animal in the ordinary feeding stable and the saving in manure is equal to this amount of every 1,000 pounds in live weight of steers or cattle fed for the year, as compared with animals fed on earth floors.

Concrete floors also make it easier to provide better sanitary places for animals.

NITROGENOUS FEEDS NEEDED

To Make Hogs Gain Rapidly and Economically They Must Have Other Feed Than Corn.

Some nitrogenous supplement must be supplied to make hogs gain rapidly and economically when they are given the run of the cornfield to do their own harvesting. At least part of this supplement may be in the form of a roughage such as alfalfa, clover or soy-bean pasture. If provision has not been made to have clover, alfalfa or rape pasture in the field adjoining the corn or if soy beans have not been planted in the corn or in an adjacent field, then it is essential to feed some nitrogenous supplement such as tankage, linseed oil meal or middings.