

from him at varying angles. Go to the river and shoot at driftwood, waterfowl, etc. Here you will learn to judge distance.

In shooting at unknown distances, you should generally make allowance by holding the front sight above or below the mark, according as it is far or near. But if the range is considerable, and your mark carries long enough

you may adjust the rear sight to the estimated distance, and then be more sure of the result.

Shooting over the water has the advantage that you see where the bullet struck, and so can learn more quickly not only the trajectory of your rifle, but also the effect of wind upon the bullet.

HORACE KEPHART.

NOTABLE PERFORMANCES AND RECORDS

THE INTERNATIONAL TRACK GAMES.

THE fourth series of the Oxford-Cambridge Harvard-Yale games were held on Berkeley Oval, New York City, Wednesday, September 25, 1901, America proving victorious over England in six of the nine events.

Preceding contests have resulted:

1894 Oxford, 5 1-2; Yale, 3 1-2 in London.
1895 Yale, 5; Cambridge, 3, in New York.
1899 Oxford-Cam. 5; Harvard-Yale, 4, in London.

It will be observed that in each instance the home team has won; a result usually traceable, to climatic handicaps against the visitors; but the 1899 American team might have won in London had it not been for the severe illness of Burke, the Harvard half-miler.

In no previous instance has the American team been representative of the best university strength, few men of championship caliber being included; but the 1901 team contained the best material which current American university athletics could produce, save three or four. Duffy, of Georgetown, in the 100; Perry, of Princeton, in the half mile; DeWitt, of Princeton in the hammer, and Gallagher, of Cornell, in the two miles, would have strengthened the team, but Duffy's and De Witt's events were won anyway, and Perry and Gallagher could not have done more than reduce Workman's margins of victory.

The day was cool and beautifully clear, with what breeze there was blowing down the homestretch. The attendance was the largest recorded at any track and field contests in New York since the series of 1895.

A SUMMARY of the games, with certain pertinent comment, follows:

105 yards dash—1, N. H. Hargrave (Yale) by 2 feet; 2, A. E. Hind (Cambridge) by 1 foot; 3, J. E. Haigh (Harvard) by 2 feet; 4, J. Churchill (Cambridge). Time, 10 2-5 sec.

The odd distance was due to an error of the starter, who sent the men away from the mark

intended for the hurdle race. The time is therefore a shade better than ten seconds for an even hundred, but the margin would be rather too small for a timer to record. Hind proved as clever a sprinter as England has sent over here, his work quite equalling that of Bradley or Downer. The four men left the mark together, Hind, however, leading for seventy-five yards, when Hargrave drew level, winning by an extra burst in the last fifteen yards.

One-half mile run—1, H. W. Workman (Cambridge) by 10 yards; 2, J. R. Cleave (Oxford) by 15 yards; 3, E. B. Boynton (Harvard) by 1 foot; 4, D. W. Franchot (Yale). Time, first quarter, 55 3-5 sec.; half, 1 min. 55 3-5 sec.

The Americans drew the pole, but conceded it to the Rev. Mr. Workman, the best middle-distance runner in England, who had been prevailed upon to try for the world's record, viz., 1.53 3-5, held by C. H. Kilpatrick. Mr. Workman made a runaway race of it, but both quarters were slower than Kilpatrick's, and he fell short. Barring his two previous performances on this side of the Atlantic, it was the fastest half-mile run in this country since Evan Hollister's performance in 1897. Workman's form is surprisingly poor, particularly his upper-body work, but despite his disadvantageous form, he "gets there" amazingly.

Throwing the Hammer—1, W. A. Boal (Harvard). 136 ft. 8 in.; 2, E. E. B. May (Oxford), 128 ft. 3 in.; 3, W. E. B. Henderson (Oxford), 111 ft. 4 1-2 in.; R. Sheldon (Yale), who had recently been ill, made one attempt to throw and withdrew.

Boal did not equal his average performance in competition, but was good enough to win, although May is by far the best university hammer thrower England has sent over. He used the modern American handle and employed the double turn.

One-quarter mile run—1, E. C. Rust (Harvard) by 2 yds.; 2, D. Boardman (Yale) by 2 yds.; 3, R. W. Barclay (Cam.), 4, S. A. Neave (Oxford). Time, 50 sec.

Boardman, who was picked to win, drew the outside place, made a poor start, and was

compelled to run about right feet wide of the pole all around the first curve. On the backstretch he allowed the leaders to get too far away, probably through over-confidence, and when he made his final spurt—ordinarily fast enough to win—he could not reach the flying Rust, whose excellent judgment supplemented his fine speed and landed him a merited victory. Neave, on whom England's hopes were laid, hit his ankle severely by running too close to the pole, and was thrown out of the race.

Running high jump—1, J. S. Spraker (Yale), 6 ft. 1 1-2 in.; 2, R. Kernan (Harvard), 6 ft. 1-2 in.; 3, G. H. Smith (Cambridge), 5 ft. 10 1-2 in.; 4, W. E. B. Henderson (Oxford), 5 ft. 9 1-2 in.

This is Spraker's best best jump in outside competition for Yale, but he is not the consistent performer he was at school. Kernan surpassed his best previous record.

The English jumper, Smith, used to his great advantage, the American style instead of the old side-wise scissors motion.

One mile run—1, F. G. Cockshott (Cambridge) by 26 yards; 2, H. W. Gregson (Cambridge) by 6 yds.; 3, H. S. Knowles (Harvard) by 4 yds.; 4, H. B. Clark (Harvard); 5, W. D. Waldron (Yale); 6, J. J. Cawthra (Cambridge). Time, by cumulative quarter miles, 1 min. 4 sec.; 2 min. and 14 3-5 sec.; 3 min. 26 2-5 sec.; 4 min. 26 1-5 sec.

Clark is the best of the present American college milers, and his performance on a sub-merged track at the Intercollegiate championships last May was estimated equal to about 4.20 under normal conditions; but he was palpably below form against the Englishmen, for he ran about forty yards slower than 4.20 1-5, was painfully spent, and, moreover, was beaten by his college mate, clearly his inferior last season.

Cockshott ran a finely judged race, and his last sprint of 150 yards was very fast indeed. He could evidently have done better, had a faster pace been set him for the three-quarters. Gregson is also an excellent finisher. Cawthra did not finish at all and Waldron was just making the upper turn when the winner crossed the line.

120 yards hurdle race—1, J. H. Converse (Harvard) by 3 in.; 2, G. R. Garnier (Oxford) by 1 yd.; 3, E. Allcock (Cam.) by 2 ft.; 4, E. J. Clapp (Yale) Time, 15 3-5 sec.

THIS was the most exciting race of the day. Garnier is the best English hurdler ever seen here, and had he known how to sprint as well as he topped the timbers, might have won. As it was, after clearing the last hurdle, he reached the ground just a breath ahead of Converse, who beat him in the last stride for the tape. Clapp displaced live hurdles.

Running broad jump—1, J. S. Spraker (Yale) 22 ft. 4 in.; 2, A. W. Ristiné (Harvard) 21 ft. 4 1-2 in.; 3, W. E.

B. Henderson (Oxford) 19 ft. 9 in. L. J. Cornish (Oxford) who was lamed through a fall in practice, made one unsuccessful to jump.

Two mile run—1, H. W. Workman (Cambridge) by 35 yds.; 2, E. W. Mills (Harvard) by 6 yds.; 3, C. J. Swan (Harvard) by 4 yds.; 4, E. A. Dawson (Oxford) by 15 yds.; 5, H. P. McNaughton (Cambridge) by 5 yds.; 6, B. G. Teel (Yale) Time, by cumulative halves, 2 min. 24 sec.; 4.59 3-5, 7.35 4-5, 9.50.

Workman and his mates made the pace all the way, the first-named sprinting the last quarter vigorously. His final half mile was much his fastest and his time was better than Alex. Grant's Intercollegiate record of 9.51 3-5. It did not, however, equal G. W. Orton's 9.41, made at the Pennsylvania games in 1895.

The summary on the Intercollegiate basis:

	1sts.	2ds.	3ds.	4ths.	Points
Harvard	3	3	3	1	33
Cambridge	3	2	3	1	28
Yale	3	1	0	3	21
Oxford	0	3	2	4	17

ACTIVITY IN CANADIAN ATHLETICS.

The visit of the British team, the accessibility of the Pan-American games and the comparatively small team sent to the Canadian amateur championships from New York, have combined to bring out renewed interest in track and field sports in the Dominion.

CANADIAN CHAMPIONSHIPS. TORONTO, SEPT. 21.

100 yards dash—1, J. D. Morrow (McGill University); 2, W. C. Covernton (Montreal A. A.); 3, J. P. Craig (Montreal A. A.). Time, 10 2-5 sec.

220 yards dash—1, J. P. Craig; 2, J. D. Morrow. Time, 23 1-5 sec.

One-quarter mile run—1, J. D. Morrow; 2, George Stephen (Montreal A. A.) Time, 51 1-5 sec.

One-half mile run—1, Alex. Grant (New York A. C.); 2, P. Molson (McGill Univ.); 3, D. Grant, Boston. Time—2 min. 1 1-8 sec.

One mile run—1, Alex. Grant; 2, J. J. Cawthra (Cambridge); 3, D. Grant. Time, 4 min. 31 sec.

120 yards hurdles—1, S. S. Jones (New York A. C.); 2, P. Watson (Toronto Lac.) Time, 16 5-8 sec.

Running high jump—1, S. S. Jones, 5 ft. 11 1-2 in. 2, G. B. Scholl (John Hopkins Univ.), 5 ft. 10 in.

Running broad jump—1, H. A. Bray (Toronto Lac. and A. A.), 21 ft. 8 in.; 2, G. B. Scholl, 20 ft. 6 in.

Pole vault—1, G. McK. Hall (Buffalo Y.M.C.A.), 11 ft. 2 in. (new record for Canada); 2, A. G. Anderson (New York A. C.), 10 ft. 11 in.

Throwing 16 lb. hammer—1, J. McArthur (Montreal Police A. A.), 123 ft. 7 in.; 2, T. O'Rourke (Toronto Lac. and A. A.), 122 ft. 6 in.

Putting 16-lb shot—1, F. G. Beck (Yale), 42 ft. 10 1-2 in.; 2, A. Smith (Montreal Lacrosse Club), 41 ft. 6 in.

Throwing discus—1, T. O'Rourke, 103 ft. 11 in.; 2, T. C. Flanagan (St. Mary's A. A.), 103 ft. 9 in.

Throwing 56-lb weight—1, T. O'Rourke, 28 ft. 5 in.; 2, A. Stemman (Toronto Police A. A.).

NEW RECORDS

At Louisville, Ky., Oct. 4, John Flanagan threw the regulation discus, 4½ lbs., 119 ft. 6 in., breaking the record of 118 ft. 9 in. made in 1897 by C. H. Henneman, Chicago A. A. At Long Island City, Sept. 2, he threw the 16-lb. hammer 171 ft. 9 in. from a seven-foot circle, breaking his own world's record of 169 ft. 4 in. At Paterson, N. J., Sept. 14, M. J. Sheridan, Pastime A. C., threw the discus 120 ft. 7¾ in., a now world's record, if accepted.

CHARLES E. PATTERSON.