

Sports

Missoula Doesn't Want Loop Spot

MISSOULA, Mont. (AP)—Missoula probably will say "no" to an invitation to join the newly organized Northwest Baseball League in 1935, a Missoula businessman and sports leader indicated Wednesday.

But Nick Mariana told the Missoula Rotary Club both this city and Butte should be ready to enter the Class B circuit, successor to the defunct Western International League, in 1936.

In the meantime, Mariana said, the Northwest loop probably will have to operate with six teams. Arthur Pohlman of Wenatchee, Wash., Northwest League president, said Tuesday the league has lined up seven cities and invited Missoula to become the eighth member after Tacoma, Wash., interests decided against sponsoring an entry.

Mariana said he feels there is not sufficient time between now and the opening of the 1935 season for Missoula to line up a team and major league affiliations, prepare a park and complete other arrangements.

Cities which Pohlman said have "met all requirements" to join the league are Salem and Eugene, Ore., Yakima, Tri-City, Wenatchee and Spokane, Wash., and Lewiston, Idaho.

League organization will be completed at a meeting at Yakima Jan. 8.

Rich Golf Trail Opens For Pros

LOS ANGELES (AP)—The nation's professional golf stars hit the richest tournament trail of all Thursday when they fire away in the \$25,000 Los Angeles Open, the first of 15 events with purses amounting to \$250,000.

The quarter million is \$17,000 more than the pros aimed at last year and the Los Angeles attraction is one of the choicest targets along the schedule that winds up the winter tour with the Masters at Augusta, Ga., April 7.

All of the country's best known players are here, with the exception of Ben Hogan and Sam Snead, who play infrequently in tournaments.

National Open champion Ed Furgol; veteran Dutch Harrison, the 1934 Vardon Cup winner; Bob Tosti, the leading money winner; Lloyd Mangrum, and all the other prominent pros are entered.

Fred Wampler of Indianapolis won the 1934 L. A. Open with a 72-hole total of 281.

As sidishow attractions, a pro-celebrity round was slated Wednesday for a \$2,500 purse for the pros, and the women's PGA will compete at 54 holes for an extra \$5,000 purse. Most of the leading women pros are entered.

BASKETBALL

PRO BASKETBALL

By THE ASSOCIATED PRESS
Wednesday's Results
Milwaukee 87, Fort Wayne 92
Philadelphia 106, Minneapolis 85
Rochester 103, New York 85

Is That So!

One of the marvels of the animal world is how some warm-blooded animals can dive so deep where pressures are so great, remain submerged so long, and then surface so fast.

Man does well to dive 100 feet where the pressure is 45 pounds to the square inch—three atmospheres, as pressures are reckoned—and remain there two minutes. In fact, a quick surfacing may give him the "bends", or caisson sickness, an illness brought on by the pressure forcing nitrogen from the air he breaths into the blood and tissues. Sudden death may result.

Yet warm-blooded animals with a lung capacity scarcely that of a man's can dive much deeper, remain under water longer, and return to the surface more swiftly without suffering ill effects.

The young of the seal has been known to dive 240 feet—that's over 10 atmospheres. Adult seals feeding on a particular type of fish must descend over several hundred feet beyond that figure—but just how far has not yet been ascertained.

BUT DEEP as the seals may go, whales descend much farther. For them, amazing records have been established, mostly accidental. For example, three sperm whales, apparently in search of food, have become entangled in submarine cables and perished: One at 1,500 feet, another at 1,600 feet, and most astonishing, a 45-foot whale met his end, entangled in the cable which he severed, at a depth of 3,240 feet! That's more than 98 atmospheres, where the pressure

exceeds 1,400 pounds to the square inch!

Aside from the phenomenal depths attained, these aquatic mammals can remain submerged for long periods. The elephant seal has been timed at 12 minutes; the common harbor seal at 15; the Alaska fur seal at 30. But whale records, again, are more impressive: the fin whale remained submerged for 30 minutes; the blue whale for 49; the sperm for 75; the Greenland right whale for 80; the bottlenose for 120—that's two hours.

IN COMPARISON of submersion periods, terrestrial-aquatic mammals are much shorter—but even their time is much better than man's; the otter has been timed at four minutes—perhaps far short of his maximum; the muskrat at 12; the beaver at 15.

For safety, these animals are all equipped with automatic valves in both ears and nose which close when they submerge and open when they surface.

But this does not explain the mystery of how these animals—particularly the whales and seals—can retain their breath so long, how they can resist the enormous pressures, then come up so quickly yet avoid the "bends."

The answer is not larger air capacity; proportionately speaking, the seal has no larger lungs than man, in fact, the whale's lungs are relatively smaller. (Besides a great lung development would hinder an animal from diving.)

WHAT THEN! In the first place, man only renews from 15-20 per cent of his air when breathing; the whale renews up to 90 per cent! With it, the whale extracts more oxygen and stores it in his blood and muscles. Besides, he can "overdraw" the oxygen from his muscles and blood to a much greater extent than man. And, he seems able to absorb more carbon dioxide without ill effects.

Next, the pulse rate goes way down. In seals it may drop as drastically as 93 1/3 per cent—from 150 to 10 beats a minute—only 10—and remain that low during the whole dive. With it, of course, the animal's metabolism drops severely.

Finally, these animals can withstand tremendous pressures on their lungs—and their lungs are capable of tremendous compressions. In the whale it has been estimated that at 600 feet, his lungs are compressed to less than 1/35 of their normal capacity and as we have seen, whales go down much farther than 600 feet!

To make this compression possible, and to avoid the "bends," both whales and seals expel most of the air from their lungs, leaving comparatively little nitrogen to be forced into the blood and tissues—at least, the amount is so small that the pressurized nitrogen has little dangerous effect.

Northwest Conference Sets Basketball Action

By THE ASSOCIATED PRESS
The Northwest Conference basketball race opens this weekend with all conference teams going into action.

Pacific University, which has run up an impressive string of nine consecutive victories this season, will open at Walla Walla in games Friday and Saturday against Whitman.

Whitman and Pacific shared the conference crown last year. Lewis and Clark will play a weekend pair at Caldwell against the College of Idaho. Then Lewis and Clark will move to Walla Walla for a Monday game against Whitman, while Pacific plays at College of Idaho in single game there.

Linfield and Willamette also will tangle over the weekend, at Salem Friday night, at McMinnville Saturday night.

Cudd Enters Tourney

PORTLAND (AP)—Bruce Cudd, who was low amateur in last year's Los Angeles Open golf tournament, will be one of several Oregonians playing again this year in the tournament which opens Thursday.

Others entered include Ralph Dichter, Astoria amateur; Eddie Hogan, John Langford, Bob Duden and Joe Mozell of Portland.

COMES TO HUNTER

DETROIT (AP)—Seven times in a week Thurman Russell took his shotgun and drove into nearby Oakland County fields to hunt rabbits. Seven times he came home empty handed.

The next night, Russell, a private patrolman in northwestern suburbs, returned to his car after checking the door of a factory. He had left the car door open, and there in the backseat was a wild rabbit. Russell caught it in a blanket. The Russell family had rabbit stew after all.

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