

Article from:

The Actuary

December 1980 – Volume 14, No. 10

STUDY NOTE SERVICE

Do you know that for a modest fee, covering expenses, a person or a company can have a complete set of all study notes presently in use for the Society's examinations?

The material available contains both Canadian and U.S. versions, and excludes only previous exam questions and illustrative solutions. It is more suitable for reference than for students' use since it isn't sent out till all study note orders by students have been filled. The package now offered incorporates the extensive changes that have been made for the 1981 exams, including much new writing.

The charge in 1981 will be: (a) \$200 for new subscribers, who will get a complete set for the 1981 Course of Reading, or (b) \$175 for renewing subscribers, who will receive everything except notes already sent them for new Part 7. The whole package covers more than 30 subjects, and weights 20 lbs.

Send your enquiries and orders to the Society office, Chicago. Pay in U.S. funds, please.

FIT PERSONS' DISCOUNTS

by Robert L. Whitney

In his Second Book of Running, James Fixx, with whom I'm acquainted, presents studies that show a cause-and-effect relation between exercise and cardiovascular health. For at least 25 years correlation between exercise and good health has been demonstrated, but always the possibility lurked that favorable results merely reflect healthy people exercising more than the unhealthy. Now, as Mr. Fixx reports, Dr. Ralph S. Paffenbarger, Jr., a respected epidemiologist (and a prominent marathoner) has completed studies of Harvard and Pennsylvania graduates which eliminates this possibility. These studies deal with a homogeneous group whose history, as a consequence of the fund-raising zeal of these universities, is readily traceable.

At first it seemed that the issue might remain in doubt since the data showed that college athletes enjoyed a continuing advantage. But as the evidence accumulated, Dr. Paffenbarger noticed a

RECENT SOCIAL SECURITY DISABILITY EXPERIENCE

by Bruce D. Schobel

Social Security Disability Insurance (D1) experience in 1930 is continuing most recent trends, but changing somewhat in a few others. The table herewith displays statistics for calendar years, 1970, 1975, 1979 and 1980, this last projected from data available at the end of September. (Ed. Note: Figures for 1971-74 and 1976-78 are in the October 1979 issue of this newsletter).

Social Security Disabled Worker Experience

1970	1975	1979	Projectea 1980
			
868	1,285	1,188	1,250
350	592	409	390
41	39e	72	65
1,493	2,489	2,870	2,860
4.84	7.11	4.51	4.24
27 .9	16.3 e	25.0	22.6
	868 350 41 1,493	868 1,285 350 592 41 39e 1,493 2,489 4.84 7.11	868 1,285 1,188 350 592 409 41 39e 72 1,493 2,489 2,870 4.84 7.11 4.51

Benefit applications appear to be slightly reversing their five-year decline in numbers, but the approval rate continues downward, the net effect being continuing decrease in awards. The gross disability incidence rate is expected to be the lowest since 1964. The 1980 recovery rate is significantly higher than was experienced in the mid-1970's, even though not matching the 1979 result.

Since 1978, the combined monthly number of benefit terminations, from recovery, death and transfer to the old-age rolls at age 65, has exceeded the number of awards in all but three instances; the resulting general decline in number of beneficiaries is expected to be about 10,000 this year.

striking trend. As the years went by, this advantage kept shrinking, until, 25 years or so after graduation, a man who had been totally unathletic in college but who kept exercising, was highly likely to be healthier than a former campus sports hero.

Using a multiple logistic risk analysis technique, Dr. Paffenbarger plotted combinations of heart attack risk to observe not only their cumulative effect but also to see what activities might have reduced that risk, resulting in the table below.

Actuaries who agree that a reduction in risk of a heart attack (which this study measures) implies a more favorable mortality, should find this chart useful in pricing fit persons' discounts.

James Fixx mentions in his book that such discounts exist. This led me to remark to him that although non-smoker discounts, sometimes with a requirement of a favorable family history and perhaps also a satisfactory build, have become common, I thought the number of companies offering a fit persons' discount is small. Please send news of such discounts to my Year Book address There might be a Third Book of Running reporting such practices. I would gladly share this information with readers.

REDUCING YOUR HEART ATTACK RISK

Sedentary Life Style	Cigarette Smoking	High Blood Pressure	Heart Attack Rate*	Potential Risk Reduction†
Yes	Yes	Yes	201	88%
Yes	Yes	N_{0}	66	60%
Yes	No	Yes	102	76%
No	Yes	Yes	08	68%
Yes	\mathbf{N} o	No	35	28%
No	Yes	No	50	48%
No	No	Yes	42	41%
No	No	No	2 6	<u>-</u>

^{*}Per 10,000 person-years.

HI Yes's are changed to No's.