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Refractive errors found in patient at ages 24, 25, and 26 years at the Pacific University Optometry Clinic

Abstract

The purpose of this paper was to find the refractive error of patients of the clinic of Optometry, Pacific University, whose ages were 24, 25 or 26 years. The total number of patients was 510, of which 231 were females and 279 were males. There were six monocular patients, three males and three females. The total number of "seeing" eyes was 1014 of which 459 were females and 555 were males.

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Refractive Errors Found in Patient at Ages
24, 25, and 26 years at the Pacific University Optometry Clinic

A thesis presented to the Faculty of
The College of Optometry in partial
fulfillment of the requirements for
the Degree Doctor of Optometry

May 18, 1966

Alan H. Snell

Galen L. Schwaner

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PURPOSE

The purpose of this paper was to find the refractive error of patients of the clinic of Optometry, Pacific University, whose ages were 24, 25 or 26 years. The total number of patients was 510, of which 231 were females and 279 were males. There were six monocular patients, three males and three females. The total number of "seeing" eyes was 1014 of which 459 were females and 555 were males.

HISTORICAL BACKGROUND

There have been many studies dealing with the distribution of refractive error. There is no need to review these studies in this paper. What is necessary, however, is to summarize some of the data that has been presented.

There is general agreement that the average baby at birth is about two diopters hyperopic.^{1,2} About twenty five per cent of the newborn are myopic, but by the first year most of these have reached hyperopia.³ The average first grader is about one diopter hyperopic, by the age of eight years there is a trend towards myopia. This trend continues until the late teens. It then stabilizes until the age of forty years.⁴

The studies also show that different groups within a population tend to show a different average refractive error. Males for example show a greater incidence of high hyperopia, while females show high myopia in greater numbers. This is progressive myopia, and not congenital myopia. Males and females also show a difference in mean refraction at various ages.⁵

Various occupations also seem to show different amounts of refractive error. Farm families tend to show less myopia than the families of university faculty or university administration. University students also tend to show more myopia.⁶

1. Hirsh, Monroe J. and Wick, Ralph E., Vision of Children, Chilton Company, First Edition, 1963; Philadelphia and New York, pp. 147.
2. Borish, Irvin M., Clinical Refraction, The Second Edition, The Professional Press Inc., Chicago 2, Illinois, pp. 11.
3. Ibid, Hirsh and Wick, pp. 148.
4. Borish, op. cit., pp. 12.
5. Baldwin, William R., "Clinical Research and Procedures in Refraction", pp. 25.
6. Baldwin, loc. cit., pp. 19.

The variation of refractive error also appears to vary with age. As already mentioned the newborn appears to have a wide distribution which decreases greatly by the age of one. By six years the variation is less than at any other age, only one per cent are myopic.⁷ The variation starts to increase again as is shown by the curve of distribution, which starts to be skewed away from hyperopia. This trend continues and by age ten the curve is symmetrical.

The curve for the adult is skewed towards myopia and shows leptokurtosis. The adult curve also shows at least two minor modes of distribution. One at ten to twelve diopters of hyperopia and another at a level of medium or high myopia.⁸ Walton's curve on 1,000 eyes seems to show a mode at about $1\frac{1}{4}$ diopters of myopia, and another smaller one at 6 to 8 diopters of myopia.⁹

7. Hirsh and Wick, op. cit., p. 150.

8. Ibid. p. 8.

9. Ibid. p. 3

SELECTION PROCEDURE

All cases that fell into the 24, 25, and 26 age group were used. If the same patient was examined more than once during this time, the findings taken nearest his 25th birthday were used. We recorded the #4 (static retinoscopy), #7 (maximum plus to 20/20 at far), #7A (maximum plus to best visual acuity at far), the red-green test at far, and the cross-cylinder findings at far.

These findings were recorded according to the sphero-equivalent, and were rounded off to the nearest .12 diopter. There were no cases omitted; there were no keratoconus patients and no aphakic patients, but there were six monocular patients.

CONSIDERATION OF VARIABLES

The most obvious variable is the number of different clinicians running the examinations. This is bound to cause some differences, but each student uses the same basic examination so that the differences would not tend to be that great.

We did not keep records on what percent of the patients were students of Pacific University. Since the university requires a visual examination once a year, and many of the optometry students are of this age group, it is reasonable to assume that a larger majority of the males are students than would be true in an ordinary practice. It would also seem likely that a larger majority of the females are student wives than is true of an ordinary practice.

This group was, in part, visually selected, since it was taken from the clinic records. The part that was not visually selected would be the students who had not had a visual examination in the year previous to registration at Pacific University, and the wives of optometry students who would not have been examined if their husbands had been majoring in dentistry.

The cross-cylinder test is not a part of the examination until the last semester in clinic, so many of the records did not have this finding. In these cases the other four findings were averaged. This may have had some results in the findings since, according to Dr. Haynes, the cross-cylinder finding is .25 diopters more minus than the #7A.

The findings for each patient were averaged to the nearest .12 diopters. This data was plotted in a bar graph form to show the frequency distribution of males and females separately. The data was then divided into .50 diopter steps using plano to -.50 as a starting point and this data was plotted in the form of a frequency distribution for the right eye and for the

left eye grouping the males and females together.

The data and the graphs are presented in the appendix. A brief summary of the data can be presented in the form of a table which follows:

	Males	Females
Mean	-1.04 diopter	-1.877 diopter
% Hyperopia > .25 diopter	22.4%	24.4%
% Plano \pm .25 diopter	23.6%	23.6%
% Myopia > .25 diopter	54.0%	53.3%
% Myopia > 4.00 diopter	10.5%	7.75%
% Hyperopia > 4.00 diopter	2.21%	2.70%

From this table it can be seen that the overall mean is more myopic than any other study would seem to indicate. There is also a larger difference between the males and females mean than other studies of this age group have found. The males show myopia above four diopters more than females, and this is also opposite to usual data.

These differences are all related and point to the need of knowing exactly what per cent of the males and females were college students. We can say that since most students who are of this group would be graduate students, the majority of the students would be males. This could explain part of the difference found between the mean for males and females. The greater amount of myopia in females than usual, 53%, may be explained from the fact that many of these are wives of the optometry students and the majority of the wives of optometry students have had some amount of college education, and many have degrees. This group of females could be classified as recent graduates from college. These are only possible explanations and further investigation needs to be done in this area before the real reasons can be found.

Our data tends to show two minor modes, one at about -2.00 diopters and one at -5.00 diopters. There is no mode at +8.00 to +10.00 diopters, which is explainable since our young population contained no aphakic individuals. These minor modes agree with Walton's data.

SUMMARY

The data showed more myopia than most previous studies. This may particularly be explained by saying that many of the sample college students and many of the males were graduate students. This does not explain all of the differences, thus more study needs to be done in this area. One reason for the difference in males and females is that a larger percentage of the males are 4.00 diopter or more myopic than are the females. The reason for this is not apparent, but it does help to explain the difference in the mean values for the males and females.

A possible follow-up of this study would be to find the percent of myopia in a population of ages 19, 20 and 21, and then note the number of people that were students. It would be a larger percentage than in the 24,25 and 26 age group. A study could also be conducted on the age group of 32,33, and 34 years old. This group would contain very few college students. This would help to clarify the situation to some degree.

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APPENDIX

DATA TAKEN FROM THE PACIFIC UNIVERSITY OPTOMETRIC CLINIC FILES

NAME	AGE	SEX	EYE	#4	#7	#7A	#RG	CC
D.R.	24	M	O.D.	-3.50	-3.00	-3.25	-3.50	not taken
			O.S.	-2.62	-2.25	-2.50	-2.75	"
L.A.	24	F	O.D.	-5.75	-5.00	-5.25	-5.50	"
			O.S.	-5.75	-5.00	-5.25	-5.50	"
G.A.	24	M	O.D.	-.50	-.25	-.75	-.50	"
			O.S.	-.50	-.50	-1.00	-.75	"
F.A.	24	M	O.D.	-.62	-.25	-.75	-1.25	-1.00
			O.S.	-.75	-.25	-.75	-.75	-1.50
J.A.	26	F	O.D.	+.50	+1.00	+.75	pl	+.50
			O.S.	+.25	+.75	+.50	-.25	+.50
F.A.	26	M	O.D.	+.75	+1.50	+1.25	+1.25	"
			O.S.	+.75	+1.50	+1.25	+1.75	"
A.A.	24	F	O.D.	-2.25	-2.00	-2.25	-1.75	"
			O.S.	-2.75	-2.25	-2.50	-2.25	"
T.A.	26	F	O.D.	+.25	+.25	-.25	-.25	"
			O.S.	+.25	+.25	-.25	-.25	"
D.A.	24	F	O.D.	-.75	+.50	-.25	-.75	"
			O.S.	-.25	+1.00	+.25	-.25	"
H.A.	26	F	O.D.	-6.25	-4.75	-5.25	-6.00	"
			O.S.	-7.00	-4.87	-5.37	-6.12	"
J.A.	25	M	O.D.	-2.50	-1.25	-1.75	-2.25	"
			O.S.	-2.75	-1.75	-2.25	-2.75	"
L.A.	24	F	O.D.	+.25	+1.00	+.25	+.25	"
			O.S.	+.50	+1.00	+.25	+.25	"
R.A.	26	M	O.D.	+.75	+1.00	+.25	+.75	"
			O.S.	+.75	+1.00	+.25	+.75	"
T.A.	26	M	O.D.	-2.50	-2.25	-2.50	-2.25	"
			O.S.	-2.50	-2.25	-2.50	-2.50	"
A.D.	25	M	O.D.	-.62	-1.50	-2.00	-2.00	"
			O.S.	-.25	-1.12	-1.62	-1.62	"
E.D.	24	M	O.D.	-.75	-.37	-.87	-1.12	"
			O.S.	+.12	+.62	+.12	+.12	"
R.D.	24	M	O.D.	+.75	+.62	-.12	+.12	"
			O.S.	+.25	+.25	-.50	-.25	"
E.D.	25	F	O.D.	-.50	-.37	-.62	-1.12	-1.12
			O.S.	-1.00	-.62	-.87	-.62	-1.12
L.D.	26	M	O.D.	-1.00	-.50	-1.00	-1.50	not taken
			O.S.	-1.25	-.75	-1.00	-2.37	"
L.D.	25	F	O.D.	+.37	+.75	+.25	-.37	"
			O.S.	-.12	+.50	pl	-.62	"
C.D.	25	F	O.D.	pl	+.25	-.50	pl	"
			O.S.	-.87	-.25	-1.00	-.87	"
B.D.	26	M	O.D.	+.50	+1.50	+1.00	+.50	"
			O.S.	+.75	+1.75	+1.25	+.50	"
R.D.	26	F	O.D.	-6.00	-5.00	-5.75	-5.50	"
			O.S.	-5.75	-4.87	-5.62	-5.50	"
A.D.	25	F	O.D.	+.50	+.25	-.25	-.50	"
			O.S.	-.50	+.25	-.25	-.62	"
TOTAL: 24			FEMALE TOTAL: 12			MALE TOTAL: 12		

NAME	AGE	SEX	HT	WT	HAIR	HAIR	HAIR	CG
M.G.	26	M	O.D. + .87	+ .87	+ .12	+ .62	not taken	"
			O.S. + .37	+ .87	+ .12	+ .62	"	"
B.G.	25	M	O.D. - .75	- .37	-1.37	- .75	"	"
			O.S. -1.12	- .12	-1.12	- .37	"	"
D.G.	24	M	O.D. +2.00	+3.00	+2.50	+1.87	"	"
			O.S. - .75	+ .25	- .25	- .87	"	"
M.G.	26	F	O.D. -3.37	-2.37	-2.87	-3.00	"	"
			O.S. -1.87	- .12	- .62	- .75	"	"
D.G.	26	M	O.D. -3.50	-2.75	-3.50	-3.75	"	"
			O.S. -3.62	-4.12	-4.62	-4.25	"	"
W.G.	25	F	O.D. -1.25	-2.25	-2.50	-1.75	-2.25	"
			O.S. -2.25	-3.12	-3.37	-3.00	-3.12	"
C.G.	24	M	O.D. -1.87	-1.37	-1.87	-2.00	not taken	"
			O.S. -2.12	-1.25	-1.75	-1.87	"	"
G.G.	24	F	O.D. -4.87	-4.37	-4.37	-5.00	"	"
			O.S. -3.12	-2.75	-3.25	-3.37	"	"
D.H.	26	F	O.D. + .25	+ .75	pl	+ .25	"	"
			O.S. - .25	+ .75	pl	+ .25	"	"
M.H.	25	M	O.D. + .25	+ .75	+ .25	+ .25	"	"
			O.S. + .25	+ .75	+ .25	+ .25	"	"
S.H.	25	M	O.D. + .37	+ .25	- .25	pl	"	"
			O.S. + .50	+ .12	- .12	- .37	"	"
M.H.	25	M	O.D. + .25	+1.50	+1.00	+ .75	"	"
			O.S. + .25	+1.25	+ .75	+1.00	"	"
L.H.	24	M	O.D. - .25	+ .50	pl	- .62	"	"
			O.S. - .50	pl	- .50	-1.12	"	"
J.E.	24	M	O.D. -8.50	-6.87	-7.12	-6.87	"	"
			O.S. -8.25	-6.87	-7.12	-7.37	"	"
J.H.	25	F	O.D. - .50	- .25	- .75	-1.00	"	"
			O.S. - .50	- .25	- .75	- .75	"	"
S.H.	25	F	O.D. -1.25	-1.00	-1.25	-1.75	"	"
			O.S. - .25	- .62	- .87	pl	"	"
D.N.	25	M	O.D. -2.62	-1.25	-2.00	-2.50	"	"
			O.S. -2.00	-1.25	-2.00	-2.00	"	"
F.N.	26	F	O.D. - .12	+ .50	pl	pl	"	"
			O.S. - .37	+ .12	- .25	- .25	"	"
S.N.	25	F	O.D. + .25	+ .75	+ .50	- .25	"	"
			O.S. + .37	+ .75	+ .50	- .25	"	"
R.N.	26	M	O.D. -5.62	-5.87	-6.12	not taken	"	"
			O.S. -5.50	-5.50	-6.75	"	"	"
D.N.	24	F	O.D. + .12	pl	- .50	- .37	"	"
			O.S. - .12	pl	- .50	- .50	"	"
R.N.	25	M	O.D. + .25	+1.25	+ .25	not taken	"	"
			O.S. + .25	+1.25	+ .25	"	"	"
H.N.	26	F	O.D. - .62	- .25	- .75	- .62	"	"
			O.S. - .62	- .25	- .75	- .25	"	"
C.N.	25	M	O.D. -2.37	-1.87	-2.62	-2.50	"	"
			O.S. -2.00	-1.50	-2.25	-2.00	"	"
E.C.	24	F	O.D. + .12	+1.00	+ .25	+ .25	"	"
			O.S. + .25	+1.25	+ .50	+ .50	"	"
TOTAL: 25							FEMALE TOTAL: 11	MALE TOTAL: 14

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
E.A.	24	M	O.D.	-1.00	- .75	-1.12	-1.37	not taken
			O.S.	-1.25	- .75	-1.25	-1.50	"
D.B.	24	M	O.D.	- .75	+ .25	- .25	- .25	"
			O.S.	pl	+ .50	pl	pl	"
G.B.	26	M	O.D.	+ .25	- .37	- .87	- .87	"
			O.S.	- .50	- .37	- .87	-1.00	"
B.B.	25	F	O.D.	-3.00	-2.00	-2.75	-2.37	"
			O.S.	-5.75	-5.12	-5.87	-5.50	"
A.B.	24	M	O.D.	+ .12	- .12	- .37	+ .50	"
			O.S.	pl	pl	- .25	pl	"
C.B.	24	M	O.D.	-7.12	-6.25	-6.50	-6.87	"
			O.S.	-7.12	-6.25	-6.50	-6.87	"
G.B.	25	M	O.D.	+ .37	+1.00	+ .25	+ .25	"
			O.S.	+ .25	+ .75	pl	pl	"
D.B.	24	F	O.D.	- .12	+1.00	+ .37	- .37	- .25
			O.S.	pl	+ .87	+ .50	- .25	- .37
T.B.	25	M	O.D.	-1.00	+ .12	- .37	not taken	-1.37
			O.S.	+ .25	+1.00	+ .50	"	- .50
M.B.	25	F	O.D.	- .12	+ .37	- .12	- .75	not taken
			O.S.	- .12	+ .37	- .12	- .75	"
R.B.	26	M	O.D.	-2.87	-1.75	-3.00	-2.37	"
			O.S.	-2.62	-1.75	-3.00	-2.75	"
B.B.	24	F	O.D.	-3.00	-2.25	-3.00	-3.25	-2.12
			O.S.	-1.25	- .87	-1.62	-1.62	- .87
J.B.	26	F	O.D.	- .50	+ .12	- .37	not taken	- .37
			O.S.	- .50	+ .25	- .25	"	- .25
B.B.	25	M	O.D.	- .75	- .37	- .87	-1.37	-1.37
			O.S.	- .50	- .25	- .75	-1.50	-1.25
B.B.	24	M	O.D.	-3.62	-3.50	-4.00	-4.25	-4.25
			O.S.	-3.50	-3.37	-3.87	-3.87	-4.12
J.B.	24	F	O.D.	+ .50	+ .62	+ .37	+ .37	not taken
			O.S.	+ .62	+ .62	+ .37	+ .25	"
R.B.	25	M	O.D.	-1.75	- .62	- .87	- 1.50	"
			O.S.	-1.50	- .62	- .87	- .50	"
L.B.	25	M	O.D.	pl	+1.00	+ .25	+ .37	"
			O.S.	- .25	+ .50	- .25	- .12	"
R.B.	24	M	O.D.	- .25	pl	- .25	- .37	"
			O.S.	- .50	- .62	- .87	-1.00	"
B.B.	25	F	O.D.	-1.62	-1.25	-1.50	-1.50	"
			O.S.	- .25	- .25	- .50	- .25	"
D.B.	24	M	O.D.	-1.50	-1.00	-1.75	-1.25	"
			O.S.	-1.25	-1.00	-1.75	-1.25	"
C.B.	25	F	O.D.	-4.00	-3.50	-3.75	-3.50	"
			O.S.	-3.37	-3.00	-3.25	-3.25	"
A.B.	25	F	O.D.	+ .50	+ .25	- .25	pl	"
			O.S.	+ .25	+ .37	- .12	+ .12	"
G.B.	25	F	O.D.	+ .75	+1.25	- .25	- .25	"
			O.S.	+ .75	+1.25	- .25	- .25	"
G.B.	26	M	O.D.	+ .62	+1.00	pl	+ .25	"
			O.S.	+ .37	+1.12	+ .12	+ .25	"
TOTAL:	25				FEMALE TOTAL: 10	MALE TOTAL: 15		

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
A.S.	25	M	O.D.	+ .75	+1.00	+ .50	+ .25	not taken
			O.S.	+ .75	+ .87	+ .37	+ .12	"
L.S.	25	M	O.D.	- .50	+ .25	- .25	not taken	"
			O.S.	- .25	+ .75	+ .25	"	"
M.S.	25	M	O.D.	+ .25	+1.00	+ .50	+ .25	"
			O.S.	- .25	+1.12	+ .62	+ .25	"
M.S.	24	M	O.D.	-2.62	-1.37	-1.87	-1.87	"
			O.S.	-4.25	-6.25	-6.75	-8.25	"
S.S.	25	F	O.D.	-3.00	-2.50	-3.00	-2.75	"
			O.S.	-6.25	-5.75	-6.25	-5.87	"
L.S.	25	M	O.D.	+ .25	+ .62	- .12	- .25	"
			O.S.	+ .12	+ .50	- .25	- .25	"
A.S.	24	M	O.D.	+ .87	+ .87	+ .37	+ .37	"
			O.S.	+ .75	+1.00	+ .50	+ .50	"
E.S.	25	M	O.D.	- .25	+ .75	+ .50	not taken	"
			O.S.	+ .12	+ .75	+ .50	"	"
J.S.	26	F	O.D.	- .25	+ .75	pl	pl	"
			O.S.	- .25	+ .75	pl	pl	"
B.S.	24	M	O.D.	-3.75	-3.12	-3.62	-3.87	-4.12
			O.S.	-3.50	-2.75	-3.25	-3.62	-3.87
N.S.	24	M	O.D.	-1.50	- .87	-1.37	-1.25	-1.50
			O.S.	-1.12	- .50	-1.00	-1.25	-1.25
R.S.	24	F	O.D.	-2.87	-2.25	-2.75	-2.75	not taken
			O.S.	-2.87	-2.25	-2.75	-2.75	"
J.S.	25	M	O.D.	+1.25	+ .75	+1.00	+1.00	"
			O.S.	blind	blind			"
L.S.	26	F	O.D.	+1.12	+1.50	+ .75	+ .75	+ .87
			O.S.	+ .75	+1.37	+ .62	+ .62	+ .75
J.S.	24	F	O.D.	+2.75	+3.12	+2.37	+2.75	not taken
			O.S.	+2.75	+3.37	+2.62	+3.25	"
H.S.	24	F	O.D.	not taken	-5.62	-6.37	-6.75	"
			O.S.	"	-5.75	-6.50	-6.50	"
J.S.	26	F	O.D.	+ .75	+1.50	+1.25	+ .50	"
			O.S.	+ .50	+1.50	+1.25	+ .50	"
M.S.	25	F	O.D.	- .62	+ .12	- .37	- .37	-1.12
			O.S.	- .50	- .25	- .75	- .75	-1.25
G.S.	24	M	O.D.	-2.50	-2.50	-3.00	-3.37	-3.00
			O.S.	-3.12	-3.25	-3.75	-4.12	-3.75
R.S.	25	F	O.D.	-3.25	-2.75	-3.00	-3.00	not taken
			O.S.	-3.37	-3.62	-3.87	-3.87	"
P.S.	26	M	O.D.	-1.75	- .37	-1.12	-1.00	"
			O.S.	-1.75	- .62	-1.37	- .50	"
D.S.	26	F	O.D.	+1.00	+ .87	+ .37	not taken	"
			O.S.	+ .75	+ .37	- .12	"	"
J.S.	24	M	O.D.	+1.00	+ .75	+ .25	+ .50	"
			O.S.	+ .75	+ .50	pl	+ .50	"
A.S.	26	M	O.D.	- .25	+ .37	- .12	+ .12	"
			O.S.	- .25	+ .37	- .12	+ .12	"
D.S.	24	M	O.D.	-3.50	-3.12	-3.12	-3.37	"
			O.S.	-3.75	-4.50	-4.50	-5.75	"
TOTAL:	25				FEMALE TOTAL: 10	MALE TOTAL: 15		

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
M.F.	26	F	O.D.	+ .75	+ .87	+ .12	+ .25	not taken
			O.S.	+ .75	+ .62	- .12	+ .12	"
M.F.	25	F	O.D.	pl	+ .50	pl	- .25	"
			O.S.	+ .25	+ .50	pl	- .37	"
D.F.	25	F	O.D.	-1.25	-1.12	-1.87	-2.12	"
			O.S.	- .50	- .25	-1.00	-1.50	"
M.F.	24	F	O.D.	+ .25	+ .75	pl	+ .25	"
			O.S.	+ .50	+ .75	pl	+ .25	"
S.F.	26	M	O.D.	-1.25	-2.87	-3.12	-3.00	"
			O.S.	-1.50	-2.00	-2.25	-1.75	"
W.F.	26	M	O.D.	-4.75	-3.75	-4.25	-5.00	"
			O.S.	-3.00	-2.62	-3.12	-3.87	"
B.F.	26	F	O.D.	+ .62	+ .62	+ .12	- .12	"
			O.S.	+ .25	+ .62	+ .12	- .12	"
B.C.	25	F	O.D.	+ .25	+ .50	pl	- .75	"
			O.S.	+ .25	+ .50	pl	- .50	"
R.C.	26	F	O.D.	+ .25	+ .87	+ .12	- .50	- .25
			O.S.	- .12	+ .87	+ .12	- .25	- .37
W.C.	26	F	O.D.	-1.12	-1.00	-1.25	-1.25	not taken
			O.S.	-1.00	-1.12	-1.37	-1.12	"
B.C.	24	F	O.D.	+ .37	+ .75	+ .25	+ .50	"
			O.S.	+ .37	+1.00	+ .50	+ .50	"
K.C.	24	F	O.D.	- .25	+ .50	pl	pl	"
			O.S.	+ .50	+ .75	+ .25	+ .25	"
A.C.	24	M	O.D.	-6.50	-5.12	-5.62	-3.87	"
			O.S.	-5.87	-4.50	-5.00	-3.62	"
E.C.	24	M	O.D.	+ .12	+1.25	+1.00	+ .50	"
			O.S.	+ .12	+1.25	+1.00	+ .50	"
B.C.	24	M	O.D.	-1.62	-1.00	-1.50	-1.25	"
			O.S.	-1.12	- .75	-1.25	-1.25	"
E.C.	25	F	O.D.	-1.25	-1.37	-1.62	-1.75	"
			O.S.	-1.25	-1.12	-1.37	-1.62	"
E.C.	26	F	O.D.	-1.12	- .87	-1.37	-1.87	"
			O.S.	- .87	- .50	-1.00	-1.00	"
D.C.	26	M	O.D.	-1.00	-6.00	-6.75	-6.25	"
			O.S.	+ .25	-5.00	-6.25	-6.50	"
A.C.	25	F	O.D.	+2.62	+3.00	+2.50	+2.50	"
			O.S.	+3.00	+3.25	+2.75	+2.75	"
D.C.	24	M	O.D.	-3.75	-3.50	-3.75	-4.00	"
			O.S.	-3.00	-2.62	-2.87	-3.12	"
M.C.	25	M	O.D.	+ .25	+ .25	pl	- .75	"
			O.S.	pl	+ .25	pl	- .75	"
B.C.	26	M	O.D.	+1.50	+1.25	+ .75	+1.00	"
			O.S.	+ .75	+ .50	pl	+ .50	"
B.J.	26	F	O.D.	pl	+1.25	+ .25	- .25	"
			O.S.	pl	+1.00	pl	- .25	"
M.J.	24	M	O.D.	+ .12	+ .25	- .25	- .50	"
			O.S.	+ .62	+ .25	- .25	-1.00	"
D.J.	24	M	O.D.	-1.00	+ .12	- .37	- .37	"
			O.S.	- .25	+ .50	pl	+ .25	"
TOTAL:	25				FEMALE TOTAL:	14	MALE TOTAL:	11

NAME	AGE	SEX	TYPE	#4	#5	#7A	BC	CC
D.J.	25	M	O.D.	-5.50	-4.00	-4.75	-4.75	not taken
			O.S.	-6.62	-4.12	-4.87	-4.62	"
N.J.	26	F	O.D.	+ .50	+ .25	- .25	- .50	"
			O.S.	+1.00	+ .25	- .25	pl	"
M.J.	26	M	O.D.	- .75	- .75	-1.50	-1.25	"
			O.S.	-1.00	- .50	-1.25	-1.25	"
B.J.	26	M	O.D.	-1.12	-1.12	-1.37	-1.25	"
			O.S.	-1.50	-1.00	-1.25	-1.12	"
M.J.B	26	M	O.D.	+ .75	+ .75	+ .25	+ .50	"
			O.S.	+ .25	+ .75	+ .25	pl	"
M.J.	26	F	O.D.	- .12	+ .25	- .50	- .37	- .50
			O.S.	- .12	+ .37	- .37	- .37	- .37
D.J.	25	M	O.D.	-2.00	-1.87	-2.12	-2.25	-2.37
			O.S.	-1.37	-1.37	-1.62	-1.75	-2.12
T.J.	24	M	O.D.	- .75	- .62	- .87	- .75	not taken
			O.S.	- .87	- .37	- .62	- .50	"
L.J.	25	M	O.D.	+ .12	+ .37	+ .12	- .12	"
			O.S.	+ .12	+ .50	+ .25	- .12	"
M.J.	25	M	O.D.	-1.75	-1.37	-1.87	-2.00	"
			O.S.	-1.62	-1.00	-1.50	-1.75	"
B.K.	24	M	O.D.	pl	+ .75	+ .25	+ .37	"
			O.S.	- .37	+ .50	pl	+ .37	"
M.K.	25	M	O.D.	+ .25	+ .37	- .37	+ .25	"
			O.S.	pl	+ .25	- .50	pl	"
M.K.	25	F	O.D.	+ .50	+1.50	+ .75	+1.00	"
			O.S.	+ .75	+1.62	+ .87	+1.37	"
J.F.	24	M	O.D.	-1.50	-1.12	-1.37	-1.37	"
			O.S.	-1.12	-1.12	-1.37	-1.50	"
D.F.	24	M	O.D.	+ .50	+ .75	pl	- .12	"
			O.S.	+ .25	+ .62	- .12	- .12	"
M.F.	26	F	O.D.	-2.37	-2.00	-2.25	-2.12	-3.00
			O.S.	-2.37	-2.25	-2.50	-2.62	-3.75
D.F.	24	M	O.D.	blind	blind			
			O.S.	pl	pl	- .50	pl	- .25
J.F.	26	M	O.D.	+ .50	+ .87	+ .37	pl	not taken
			O.S.	+ .75	+1.00	+ .50	+ .12	"
M.F.	26	F	O.D.	+1.25	+1.25	+1.00	+1.25	"
			O.S.	+1.62	+1.50	+1.25	+1.12	"
T.F.	24	M	O.D.	- .25	+ .25	- .50	-1.00	"
			O.S.	- .25	+ .25	- .50	- .75	"
F.F.	25	M	O.D.	+ .25	- .12	- .37	+ .25	"
			O.S.	- .25	- .25	- .50	+ .12	"
B.G.	25	M	O.D.	+3.62	+4.00	+3.75	+4.25	+3.75
			O.S.	+3.00	+3.37	+3.12	+4.00	+3.12
J.G.	26	M	O.D.	-4.00	-4.25	-4.75	-4.50	not taken
			O.S.	-4.00	-4.25	-4.75	-4.75	"
J.G.	24	M	O.D.	-9.00	-9.00	-9.25	-9.00	"
			O.S.	-6.12	-6.12	-6.37	-6.12	"
K.G.	24	F	O.D.	- .25	+ .12	- .12	- .87	- .62
			O.S.	- .25	+ .12	- .12	- .87	- .62
TOTAL:	25				FEMALE TOTAL: 6	MALE TOTAL: 19		

NAME	AGE	SEX	BYE	#6	#7	#7A	#8	CC
R.Y.	26	M	O.D. - .25	- .25	- .75	- .25	not taken	
			O.S. - .25	+ .12	- .37	- .12	"	
D.Y.	24	M	O.D. pl	+ .50	- .25	- .25	"	
			O.S. pl	+ .75	pl	pl	"	
R.Y.	24	M	O.D. -2.87	-2.12	-2.62	-2.62	"	
			O.S. -3.00	-2.00	-2.50	-2.50	"	
B.Z.	24	M	O.D. -2.00	-1.00	-2.00	-3.25	"	
			O.S. -2.25	-1.37	-1.87	-2.37	"	
M.W.	26	F	O.D. - .37	+2.87	+2.37	not taken	"	
			O.S. + .12	+1.87	+1.37	"	"	
J.W.	24	M	O.D. - .50	- .62	- .62	- .87	"	
			O.S. - .25	- .12	- .12	- .37	"	
M.W.	24	F	O.D. -1.50	-2.00	-2.25	-2.50	"	
			O.S. -1.75	-1.62	-1.87	-2.12	"	
A.W.	25	F	O.D. - .37	pl	- .25	- .50	- .50	
			O.S. + .12	+ .25	pl	- .25	- .62	
B.W.	24	M	O.D. -1.25	- .75	-1.25	-1.25	-1.25	
			O.S. -1.25	- .75	-1.25	-1.25	-1.25	
D.W.	24	M	O.D. -10.12	-9.50	-10.00	-11.00	-10.75	
			O.S. -9.87	-8.87	-9.37	-10.25	-11.12	
L.O.	25	F	O.D. -4.75	-4.12	-4.37	-4.50	not taken	
			O.S. -3.12	-4.00	-4.25	-4.37	"	
G.O.	25	M	O.D. -3.37	-2.62	-3.37	-3.12	"	
			O.S. -3.75	-3.00	-3.25	-3.25	"	
J.O.	25	F	O.D. - .25	- .37	- .87	-1.00	"	
			O.S. + .12	+ .12	- .37	-1.12	"	
D.P.	26	F	O.D. -1.00	- .87	- .87	-1.50	"	
			O.S. -1.00	- .87	-1.12	-1.25	"	
D.P.	26	M	O.D. -4.62	-3.37	-4.37	-3.75	"	
			O.S. -4.75	-3.12	-4.12	-3.62	"	
J.P.	26	M	O.D. -2.37	-2.12	-2.87	-2.75	"	
			O.S. -2.37	-2.12	-2.87	-2.75	"	
S.P.	24	M	O.D. + .37	+ .50	+ .25	+ .12	"	
			O.S. + .50	+ .25	pl	- .12	"	
L.P.	24	M	O.D. -1.75	-1.50	-2.25	-1.75	"	
			O.S. -2.00	-1.50	-2.25	-1.75	"	
C.P.	26	F	O.D. -1.25	- .37	-1.12	-1.25	"	
			O.S. -1.25	- .12	- .87	-1.37	"	
S.P.	26	F	O.D. -1.62	-1.37	-1.87	-1.75	"	
			O.S. -1.37	- .87	-1.37	-1.12	"	
C.P.	26	F	O.D. + .75	+1.25	+ .75	+ .75	"	
			O.S. + .75	+1.25	+ .75	+ .50	"	
V.P.	26	F	O.D. - .25	+ .75	pl	pl	"	
			O.S. - .25	+1.00	+ .25	+ .25	"	
P.P.	24	M	O.D. pl	+ .50	pl	+ .12	"	
			O.S. pl	+ .87	+ .37	+ .25	"	
L.P.	24	F	O.D. -3.12	-3.50	-3.75	not taken	"	
			O.S. -2.75	-3.87	-4.12	"	"	
D.P.	26	M	O.D. - .50	+ .12	- .37	- .62	"	
			O.S. - .25	+ .50	pl	- .25	"	

TOTAL: 25

FEMALE TOTAL: 11

MALE TOTAL: 14

NAME	AGE	SEX	TYPE	Q1	Q2	Q3	Q4	Q5
E.M.	24	F	O.D.	-.87	-.25	-.75	-1.75	not taken
			O.S.	-.62	-.12	-.62	-1.12	"
S.S.	24	F	O.D.	-1.25	-.87	-1.37	-1.37	"
			O.S.	-1.37	-.75	-1.25	-1.50	"
D.S.	25	F	O.D.	-5.12	-5.50	-6.00	-6.00	"
			O.S.	-6.25	-6.00	-6.50	-6.50	"
G.S.	25	F	O.D.	-1.75	-1.50	-1.50	-1.75	"
			O.S.	-1.25	-1.50	-1.50	-1.25	"
R.S.	25	M	O.D.	pl	+.75	pl	-.50	"
			O.S.	pl	+.75	pl	-.50	"
D.C.	26	F	O.D.	-.12	+.12	-.12	-.25	-.50
			O.S.	-.25	-.25	-.50	-1.00	-1.25
C.C.	26	F	O.D.	-8.12	-8.12	-8.37	-8.12	not taken
			O.S.	-8.75	-8.37	-8.62	-8.62	"
J.C.	26	F	O.D.	+.50	+.75	+.50	+.25	pl
			O.S.	+.25	+1.00	+.75	+.50	+.25
B.C.	26	M	O.D.	+1.25	+.62	+.37	+.25	not taken
			O.S.	+1.00	+1.37	+1.12	+.62	"
B.C.	25	M	O.D.	+.87	+1.00	+.25	+.25	"
			O.S.	pl	+.50	-.25	-.37	"
H.C.	25	F	O.D.	-.50	-.25	-.50	pl	"
			O.S.	-.50	-.25	-.50	-.25	"
G.C.	25	M	O.D.	+1.00	+1.25	+.75	+.12	"
			O.S.	+.75	+1.12	+.62	+.25	"
H.C.	25	M	O.D.	-7.87	-7.25	-7.50	-7.87	"
			O.S.	-7.00	-7.25	-7.50	-7.75	"
D.C.	24	M	O.D.	+.12	+.75	pl	+.25	"
			O.S.	+.50	+.75	pl	+.25	"
A.C.	24	F	O.D.	+.25	+.75	pl	pl	"
			O.S.	+.25	+.75	pl	pl	"
D.C.	26	M	O.D.	-.50	-1.25	-1.75	-1.25	"
			O.S.	+.25	pl	-.50	pl	"
C.C.	24	F	O.D.	pl	-.25	-.50	-.25	"
			O.S.	pl	-.25	-.75	-.87	"
B.C.	25	M	O.D.	-1.25	-2.00	-2.25	-2.00	"
			O.S.	-1.00	-2.12	-2.37	-2.00	"
C.C.	24	M	O.D.	+.50	+.62	-.12	-.25	"
			O.S.	+.75	+.75	pl	-.12	"
M.D.	25	F	O.D.	-1.25	-.87	-1.12	-.62	-1.50
			O.S.	-1.25	-.87	-1.12	-.87	-1.87
S.H.	25	F	O.D.	+.37	+.25	-.50	pl	not taken
			O.S.	+.62	+1.25	-.25	+.25	"
V.H.	25	M	O.D.	+.75	+1.25	+.50	+.75	"
			O.S.	+1.00	+1.25	+.50	+1.00	"
V.H.	24	F	O.D.	-3.62	-2.75	-2.75	-2.75	"
			O.S.	-5.00	-3.50	-3.50	-3.50	"
B.H.	24	F	O.D.	-.37	pl	-.50	-.25	"
			O.S.	-.12	+.25	-.25	pl	"
D.H.	24	M	O.D.	-.25	+.37	-.37	-.25	"
			O.S.	-.12	+.25	-.50	-.12	"

TOTAL: 25

FEMALE TOTAL: 14

MALE TOTAL: 11

NAME	AGE	SEX	REF	#	#	72A	72B	CG
G.G.	24	M	O.D.	-.25	-.25	-1.12	-.62	not taken
			O.S.	+.12	-.37	-.12	-.62	"
B.G.	25	F	O.D.	-2.00	-2.00	-2.25	-2.00	"
			O.S.	-2.00	-1.62	-1.87	-2.12	"
N.G.	26	F	O.D.	+.62	+1.00	+.75	+.50	"
			O.S.	+.87	+.62	+.37	+.62	"
J.L.	25	M	O.D.	-2.00	-1.00	-2.00	-1.75	"
			O.S.	-2.50	-1.50	-2.50	-2.25	"
M.L.	26	M	O.D.	-.37	+.50	pl	-.25	"
			O.S.	-.25	+.50	pl	-.25	"
M.L.	25	F	O.D.	-.75	-.25	-.75	-.75	-.75
			O.S.	-.75	-.25	-.75	-.75	-.75
D.L.	26	F	O.D.	-4.25	-4.12	-4.37	-4.12	not taken
			O.S.	-4.75	-4.62	-4.62	-5.00	"
M.K.	26	F	O.D.	+.50	+.50	pl	pl	+.25
			O.S.	+.37	+.62	+.12	-.25	+.12
P.K.	25	M	O.D.	-1.00	-.25	-.75	-.75	not taken
			O.S.	-1.25	-.37	-.87	-1.00	"
D.K.	25	M	O.D.	-3.37	-2.25	-3.00	-3.25	"
			O.S.	-2.50	-1.25	-2.00	-2.25	"
P.K.	25	M	O.D.	-1.12	-.87	-2.37	-2.12	"
			O.S.	-1.75	-.87	-2.37	-2.12	"
P.K.	24	M	O.D.	-3.00	-2.50	-2.75	-2.62	"
			O.S.	-3.25	-2.62	-2.87	-2.87	"
P.K.	24	F	O.D.	+.37	+.25	pl	-.50	"
			O.S.	+.25	+.50	+.25	-.50	"
D.K.	26	F	O.D.	+.25	+.50	pl	not taken	"
			O.S.	+.25	+.50	pl	"	"
T.L.	25	F	O.D.	-.25	pl	-.50	-.62	"
			O.S.	-.87	-.37	-.87	-1.00	"
M.K.	24	M	O.D.	-2.25	-1.25	-2.00	-2.50	"
			O.S.	-2.00	-1.25	-2.00	-2.00	"
A.K.	25	F	O.D.	-2.25	-2.25	-3.00	-2.75	"
			O.S.	-2.37	-2.12	-2.87	-2.50	"
W.K.	26	F	O.D.	+.87	+1.12	+.62	-.37	-.25
			O.S.	+.75	+1.00	+.50	pl	pl
M.K.	24	F	O.D.	pl	+1.00	+.25	+.25	not taken
			O.S.	pl	+.75	pl	pl	"
B.K.	25	F	O.D.	blind	blind			
			O.S.	+7.50	+7.62	+7.37	+7.25	+7.37
J.K.	26	M	O.D.	-1.75	-1.12	-1.37	-1.87	-2.12
			O.S.	-.75	pl	-.25	-.75	-1.00
B.K.	25	M	O.D.	-2.37	-2.37	-2.87	-2.37	not taken
			O.S.	-2.00	-1.75	-2.25	-2.37	"
M.K.	25	F	O.D.	-5.75	-5.50	-5.75	-5.62	-5.75
			O.S.	-5.12	-4.50	-4.75	-4.62	-4.75
P.K.	24	M	O.D.	-.37	+.50	+.25	-1.25	not taken
			O.S.	+1.62	-.50	-.75	-2.25	"
B.K.	26	F	O.D.	+2.25	-.12	-.12	-.37	"
			O.S.	+1.25	+.25	-.25	-.50	"

TOTAL: 25

FEMALE TOTAL: 14

MALE TOTAL: 11

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
H.E.	26	M	O.D.	-.62	-.37	-.37	-.62	not taken
			O.S.	-1.25	-.87	-.87	-1.37	"
M.E.	25	M	O.D.	-.37	+.12	-.62	-.87	-1.12
			O.S.	-.62	-.12	-.87	-.87	-1.12
D.B.	24	M	O.D.	+1.75	+1.62	+1.12	+.25	not taken
			O.S.	+2.87	+1.37	+.87	+.50	"
M.B.	24	F	O.D.	+3.00	+2.37	+1.87	+1.75	"
			O.S.	+3.00	+2.87	+2.37	+2.25	"
G.B.	26	F	O.D.	+4.75	+4.75	+4.50	+4.62	"
			O.S.	+4.62	+4.75	+4.50	+5.50	"
F.B.	24	M	O.D.	-.50	+.37	-.37	-.25	-.62
			O.S.	-.25	+.62	-.12	-.37	-.37
H.B.	25	M	O.D.	-4.62	-4.37	-4.37	-4.50	not taken
			O.S.	-4.37	-3.75	-3.75	-4.37	"
P.B.	26	F	O.D.	-.87	-.37	-.62	-1.00	"
			O.S.	-1.37	-1.25	-1.50	-1.75	"
D.B.	24	M	O.D.	+.62	+.75	-.25	pl	"
			O.S.	+.25	+.87	-.12	-.12	"
J.B.	25	F	O.D.	-5.50	-4.12	-4.87	-4.50	"
			O.S.	-5.25	-3.87	-4.62	-4.25	"
M.B.	25	F	O.D.	-2.00	-1.75	-2.12	-2.25	"
			O.S.	-1.87	-1.37	-1.87	-2.25	"
J.B.	24	F	O.D.	-.12	+.75	+.25	pl	"
			O.S.	+.12	+.50	pl	-.25	"
J.B.	26	M	O.D.	+2.87	+2.62	+2.12	+1.87	"
			O.S.	+5.37	+5.00	+4.50	+4.75	"
D.B.	24	F	O.D.	pl	+1.00	+.25	not taken	"
			O.S.	pl	+1.00	+.25	"	"
J.B.	24	M	O.D.	-.12	+1.00	pl	+.25	"
			O.S.	-.25	+1.00	pl	+.25	"
L.B.	24	M	O.D.	pl	+.87	+.12	+.25	"
			O.S.	+.25	+1.00	+.25	+.25	"
D.B.	25	M	O.D.	-1.62	-1.50	-2.00	-1.75	"
			O.S.	-1.00	-1.00	-1.50	-1.50	"
L.L.	25	M	O.D.	-2.00	-1.25	-2.25	-2.25	"
			O.S.	-2.00	-1.12	-2.12	-2.12	"
D.L.	25	M	O.D.	-2.25	-1.75	-2.25	-2.00	"
			O.S.	-3.25	-1.87	-3.12	-2.37	"
A.L.	24	M	O.D.	-2.62	-2.75	-3.25	-2.12	"
			O.S.	-1.12	-.62	-1.12	-1.12	"
C.L.	24	M	O.D.	-2.25	-2.00	-2.50	-2.50	"
			O.S.	-2.12	-1.62	-2.12	-2.00	"
M.L.	26	F	O.D.	-2.25	-2.37	-2.62	-2.50	"
			O.S.	-2.00	-2.37	-2.62	-2.50	"
E.L.	25	M	O.D.	-3.37	-3.12	-3.37	-3.37	"
			O.S.	-3.62	-3.12	-3.37	-3.37	"
L.L.	26	M	O.D.	-.87	-.37	-.87	-.25	"
			O.S.	-.50	-.37	-.87	-.75	"
B.R.	26	M	O.D.	+.62	+1.00	pl	+.50	"
			O.S.	+.62	+1.00	pl	+.25	"

TOTAL: 25

FEMALE TOTAL: 8

MALE TOTAL: 17

NAME	AGE	SEX	TYPE	#4	#7	#7A	#8	#9	
E.T.	26	F	O.D.	-1.00	-.75	-2.00	-1.75	-1.25	
			O.S.	-1.37	+.25	-1.00	-.87	-.25	
A.T.	25	M	O.D.	-.75	-.25	-.75	-1.50	not taken	
			O.S.	-.62	-.12	-.62	-1.62	"	
M.B.	24	F	O.D.	+.50	+.75	+.25	+.25	"	
			O.S.	pl	+.75	+.25	+.25	"	
S.M.	24	M	O.D.	-1.50	-.50	-1.00	-1.25	-1.37	
			O.S.	-1.25	-.50	-1.00	-.87	-1.37	
E.M.	24	F	O.D.	-6.37	-6.00	-6.00	-5.75	not taken	
			O.S.	-8.50	-7.87	-7.87	-7.00	"	
D.M.	24	M	O.D.	-.62	-.25	-.50	-.75	"	
			O.S.	-.50	-.62	-.87	pl	"	
M.M.	25	F	O.D.	-3.75	-3.50	-4.00	not taken	"	
			O.S.	-3.50	-3.25	-3.75	"	"	
G.M.	25	F	O.D.	-.62	-.25	-.75	-.75	"	
			O.S.	-.37	+.12	-.37	-.62	"	
D.M.	26	M	O.D.	-.50	-.25	-1.00	-1.00	"	
			O.S.	-.50	-.25	-1.00	-.87	"	
D.M.	24	M	O.D.	+.50	+1.00	+.50	+.25	"	
			O.S.	+.25	+.75	+.25	+.25	"	
K.S.	26	M	O.D.	-.25	+.37	-.62	-.25	"	
			O.S.	-.75	pl	-1.25	-1.00	"	
L.S.	25	F	O.D.	-.12	-.62	-.62	-.62	"	
			O.S.	-.25	pl	pl	-.37	"	
L.S.	25	M	O.D.	+1.00	+.87	+.37	+.75	"	
			O.S.	+.25	+1.00	+.50	+.50	"	
W.S.	26	F	O.D.	+.37	+1.00	+.50	not taken	"	
			O.S.	+.62	+1.00	+.50	"	"	
B.S.	25	F	O.D.	-2.00	-1.75	-2.25	-2.25	"	
			O.S.	-2.00	-.75	-1.25	-1.00	"	
S.S.	26	F	O.D.	-.87	pl	-.50	-.75	"	
			O.S.	-.25	+.37	-.12	+.37	"	
L.S.	26	F	O.D.	-2.62	-2.37	-2.62	-2.62	"	
			O.S.	-2.75	-2.25	-2.50	-2.62	"	
R.S.	25	F	O.D.	-.62	+.12	-.37	-.50	"	
			O.S.	+.12	+.12	-.37	-.37	"	
G.S.	25	M	O.D.	+.50	+2.00	+1.00	+.50	"	
			O.S.	+1.00	+2.00	+1.00	+.50	"	
E.S.	24	F	O.D.	-.37	-.37	-.62	-.75	"	
			O.S.	-1.00	-1.00	-1.25	-1.25	"	
G.S.	25	F	O.D.	-1.50	-1.50	-2.00	-2.00	"	
			O.S.	-1.00	-1.25	-1.75	-1.75	"	
D.S.	26	F	O.D.	-1.50	-.62	-1.37	-.75	-1.62	
			O.S.	-2.00	-.62	-1.37	-1.37	-1.87	
J.S.	24	M	O.D.	-.25	+.75	+.25	-.25	not taken	
			O.S.	pl	+.75	+.25	pl	"	
M.S.	25	M	O.D.	-.25	+.62	-.37	-.75	"	
			O.S.	-.12	+.50	-.50	-.75	"	
M.S.	26	F	O.D.	pl	+.25	-.50	-.75	-.50	
			O.S.	-.25	-.37	-1.12	-1.00	-1.37	
TOTAL: 25				FEMALE TOTAL: 15			MALE TOTAL: 10		

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
M.O.	24	F	O.D.	-2.75	-2.62	-3.37	-2.25	not taken
			O.S.	-2.37	-1.87	-2.62	-2.00	"
J.O.	26	M	O.D.	+ .37	+1.00	pl	+ .25	pl
			O.S.	+ .62	+1.00	pl	+ .25	pl
R.O.	24	M	O.D.	- .25	+ .25	- .25	not taken	not taken
			O.S.	- .25	+ .12	- .37	"	"
C.O.	25	F	O.D.	+1.12	+1.75	+1.00	+ .62	"
			O.S.	+1.00	+1.75	+1.00	pl	"
J.O.	25	M	O.D.	-1.37	-1.00	-1.50	-1.87	"
			O.S.	- .75	- .37	- .87	- .87	"
C.M.	25	F	O.D.	+ .37	+ .25	pl	pl	"
			O.S.	+ .25	pl	- .25	- .12	"
M.M.	26	F	O.D.	-5.62	-4.25	-4.75	not taken	"
			O.S.	-5.25	-3.62	-4.12	"	"
C.M.	26	M	O.D.	+1.12	+1.87	+1.37	+1.00	"
			O.S.	+1.50	+2.25	+1.75	+1.37	"
J.M.	25	F	O.D.	-5.00	-4.25	-4.50	-5.00	"
			O.S.	-4.50	-3.75	-5.00	-4.25	"
C.M.	24	F	O.D.	-3.12	-2.87	-3.37	-2.87	"
			O.S.	-4.37	-3.87	-4.37	-3.87	"
D.M.	25	F	O.D.	+ .12	pl	- .25	- .50	"
			O.S.	+ .25	+ .75	+ .50	- .25	"
M.M.	25	F	O.D.	-1.75	- .62	-1.62	-1.87	"
			O.S.	-1.87	- .50	-1.50	-1.87	"
J.M.	25	M	O.D.	+ .25	+ .87	+ .37	- .12	"
			O.S.	+ .25	+ .75	+ .25	pl	"
C.M.	26	M	O.D.	-1.62	-1.75	-2.00	-1.75	"
			O.S.	-1.37	-1.62	-1.87	-1.62	"
P.N.	26	M	O.D.	-1.00	-1.37	-2.12	not taken	"
			O.S.	- .75	-1.25	-2.00	"	"
R.M.	25	M	O.D.	-3.87	-3.00	-3.75	-3.50	"
			O.S.	-3.00	-1.75	-2.50	-2.25	"
R.M.	26	M	O.D.	pl	+ .25	- .25	+ .25	"
			O.S.	pl	+ .25	- .25	pl	"
B.M.	25	F	O.D.	- .62	- .37	- .87	-1.00	"
			O.S.	- .75	- .62	-1.12	-1.25	"
B.N.	24	M	O.D.	-3.87	-3.87	-3.87	-4.25	"
			O.S.	-2.37	-2.25	-2.25	-2.25	"
H.N.	26	M	O.D.	-1.25	-2.12	-2.62	-2.00	"
			O.S.	-1.25	-2.00	-2.50	-2.00	"
T.S.	25	M	O.D.	-5.75	-5.25	-5.50	-5.25	"
			O.S.	-5.25	-5.00	-5.25	-5.00	"
E.S.	25	F	O.D.	+ .50	+ .50	pl	+ .12	"
			O.S.	+ .12	+ .37	- .12	pl	"
D.S.	24	M	O.D.	-3.00	-2.00	-2.25	-1.75	"
			O.S.	-1.25	-3.75	-4.00	-3.87	"
T.T.	24	M	O.D.	-6.75	-6.00	-6.50	-6.50	"
			O.S.	-4.75	-4.62	-5.12	-5.00	"
J.S.	26	F	O.D.	-3.50	-2.75	-3.25	-3.75	-3.75
			O.S.	-3.00	-1.87	-2.37	-2.00	-3.12

TOTAL: 25

FEMALE TOTAL: 11

MALE TOTAL: 14

NAME	AGE	SEX	TEST	SCORE	SCORE	SCORE	SCORE	SCORE
J.K.	24	M	O.D.	+ .12	+1.00	+ .25	- .25	not taken
			O.S.	+ .25	+1.00	+ .25	- .12	"
D.K.	24	M	O.D.	+ .37	+1.25	+ .25	+ .50	"
			O.S.	+ .75	+1.50	+ .50	+ .62	"
A.K.	26	F	O.D.	-5.50	-4.62	-5.12	-5.25	-5.25
			O.S.	-5.00	-4.00	-4.50	-4.75	-4.75
S.K.	25	F	O.D.	- .25	- .37	- .87	- .87	not taken
			O.S.	- .75	- .62	-1.12	- .75	"
L.K.	26	M	O.D.	- .50	- .37	- .62	- .62	+ .87
			O.S.	- .87	- .62	- .87	- .75	+ .37
R.K.	26	M	O.D.	-1.25	- .50	-1.25	-1.37	not taken
			O.S.	-1.00	- .62	-1.37	-1.25	"
D.K.	25	M	O.D.	-5.50	-5.50	-5.75	-5.50	-6.00
			O.S.	-5.37	-5.62	-5.87	-5.75	-6.12
P.K.	26	F	O.D.	+ .75	+ .75	pl	pl	- .25
			O.S.	+1.00	+ .75	pl	pl	- .25
G.K.	24	F	O.D.	-1.75	-1.50	-2.00	-2.00	not taken
			O.S.	-1.87	-1.50	-2.00	-2.37	"
G.K.	24	M	O.E.	-4.00	-3.25	-3.50	-3.37	"
			O.S.	-3.12	-3.87	-4.37	-4.00	"
P.K.	26	F	O.E.	- .37	- .12	- .62	- .75	- .87
			O.S.	- .25	- .25	- .75	- .87	-1.00
P.K.	24	M	O.E.	-8.00	-6.12	-6.62	-6.12	not taken
			O.S.	-5.87	-5.00	-5.50	-5.12	"
H.E.	24	M	O.D.	-3.75	-3.00	-3.50	-3.62	"
			O.S.	-4.00	-3.12	-3.62	-3.87	"
C.E.	25	F	O.D.	+ .12	+1.25	+1.25	- .75	"
			O.S.	+ .37	+ .87	+ .87	- .12	"
D.E.	25	M	O.D.	-1.62	-1.87	-2.37	-3.00	"
			O.S.	-1.50	-2.50	-3.00	-2.87	"
J.E.	25	M	O.D.	- .87	- .62	-1.12	-1.37	"
			O.S.	- .87	- .75	-1.25	-1.37	"
E.E.	25	F	O.D.	- .75	- .50	-1.00	-2.00	"
			O.S.	- .50	+ .12	- .37	- .37	"
L.E.	24	F	O.E.	+ .75	+1.25	+ .75	+1.00	"
			O.S.	+1.00	+1.12	+ .62	+ .75	"
M.E.	24	M	O.D.	+ .25	+ .75	+ .25	- .50	"
			O.S.	+ .12	+ .75	+ .25	- .50	"
D.E.	26	M	O.D.	-4.25	-4.00	-4.50	-4.00	"
			O.S.	-4.00	-4.00	-4.50	-4.00	"
B.E.	24	M	O.D.	+ .12	+ .25	pl	- .25	- .50
			O.S.	pl	+ .25	pl	- .12	"
D.E.	24	M	O.D.	-3.25	-2.37	-3.12	-3.12	not taken
			O.S.	-2.75	-2.25	-3.00	-3.12	"
M.E.	24	M	O.D.	+ .75	+1.12	+ .87	+ .37	"
			O.S.	+ .37	+1.25	+1.00	+ .25	"
G.E.	24	M	O.S.	+3.12	+2.87	+2.87	+2.37	"
			O.S.	+2.25	+2.25	+2.25	+1.75	"
H.E.	26	M	O.D.	-1.25	-1.25	-1.75	-2.00	"
			O.S.	-2.12	-1.62	-2.12	-2.25	"
TOTAL	25				FEMALE TOTAL: 8	MALE TOTAL: 17		

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
F.B.	25	M	O.D.	- .12	+ .25	- .25	+ .62	+ .12
			O.S.	- .12	+ .50	pl	+ .75	+ .12
B.B.	24	F	O.D.	-2.75	-2.37	-2.87	-2.75	not taken
			O.S.	-3.25	-2.87	-3.37	-3.25	"
J.D.	24	F	O.D.	+1.00	+1.25	+ .75	- .37	- .25
			O.S.	+1.25	+1.62	+1.12	- pl	+ .12
M.D.	24	F	O.D.	-1.75	-1.75	-2.25	-2.25	not taken
			O.S.	-2.00	-1.75	-2.25	-2.25	"
P.D.	26	F	O.D.	- .50	- .25	- .50	- .62	"
			O.S.	- .50	+ .12	- .12	- .75	"
W.D.	24	M	O.D.	-1.50	+ .87	+ .12	+ .25	"
			O.S.	+ .50	+ .75	pl	+ .25	"
G.D.	26	F	O.D.	+1.25	+1.50	+1.25	+1.25	"
			O.S.	+1.25	+1.25	+1.00	+1.25	"
P.D.	24	F	O.D.	- .12	+ .37	+ .12	pl	"
			O.S.	+ .12	+ .25	pl	- .25	"
R.D.	25	M	O.D.	+ .37	+1.50	+1.00	+ .50	"
			O.S.	+1.25	+1.25	+ .75	+ .37	"
C.D.	26	F	O.D.	- .62	pl	- .50	- .25	"
			O.S.	- .25	- .12	- .62	- .50	"
A.D.	24	F	O.D.	-3.37	-2.75	-3.25	-2.87	"
			O.S.	-2.75	-2.50	-3.00	-2.50	"
D.D.	25	M	O.D.	- .50	pl	- .50	- .75	"
			O.S.	- .50	pl	- .50	- .50	"
D.D.	25	F	O.D.	- .50	+ .25	- .50	- .75	"
			O.S.	- .25	+ .25	- .50	- .87	"
V.D.	24	F	O.D.	-1.37	-1.62	-2.12	-2.12	"
			O.S.	-1.50	-1.50	-2.00	-1.00	"
A.E.	24	F	O.D.	+ .87	+1.00	+ .25	+ .75	"
			O.S.	+ .87	+1.37	+ .62	+ .87	"
C.E.	26	M	O.D.	-7.50	-7.75	-8.00	-7.12	"
			O.S.	-7.87	-8.50	-8.75	-8.00	"
E.E.	26	F	O.D.	- .12	pl	- .25	- .87	"
			O.S.	- .12	pl	- .25	- .37	"
D.V.	25	M	O.D.	pl	+ .25	- .25	pl	- .25
			O.S.	pl	+ .50	pl	+ .25	pl
S.F.	24	F	O.D.	- .75	+ .12	- .37	-1.00	-1.25
			O.S.	- .87	+ .12	- .37	-1.00	-1.25
M.F.	24	M	O.D.	-2.50	-2.00	-2.50	-2.25	not taken
			O.S.	-1.75	-1.37	-1.87	-1.62	"
J.F.	26	M	O.D.	pl	+ .25	pl	- .12	"
			O.S.	pl	+ .25	pl	- .12	"
J.F.	25	F	O.D.	+ .12	+1.00	+ .50	- .37	"
			O.S.	+ .37	+1.12	+ .62	- .12	"
H.F.	26	M	O.D.	- .25	pl	- .50	- .25	"
			O.S.	pl	- .12	- .62	- .12	"
M.F.	26	F	O.D.	- .62	- .12	- .62	- .87	"
			O.S.	- .62	- .25	- .75	- .87	"
C.F.	26	F	O.D.	-2.87	-2.75	-3.00	-2.87	"
			O.S.	-2.12	-2.25	-2.50	-2.50	"
TOTAL: 25				FEMALE TOTAL: 16				MALE TOTAL: 9

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
E.D.	24	F	O.D.	-1.25	-1.00	-1.25	-2.25	-1.50
			O.S.	-2.50	-1.25	-1.50	-1.50	-2.25
J.D.	25	M	O.D.	pl	-.25	-.50	+.37	not taken
			O.S.	+1.50	+1.12	+.87	+.75	"
C.D.	26	M	O.D.	+.50	+1.75	+.75	+.50	"
			O.S.	+.50	+2.00	+1.00	+.50	"
V.H.	24	M	O.D.	pl	+.75	+.25	-.62	"
			O.S.	+.25	+.75	+.25	-.50	"
G.H.	26	M	O.D.	+.25	+.25	-.25	pl	"
			O.S.	+.25	+.25	-.25	pl	"
M.H.	24	F	O.D.	+.50	+.87	+.37	-.12	"
			O.S.	+.50	+1.12	+.62	+.50	"
S.H.	24	F	O.D.	-1.25	-.50	-1.00	-.75	"
			O.S.	-1.37	-.37	-.87	-.87	"
D.H.	26	M	O.D.	-.25	-.25	-.50	-.50	"
			O.S.	-.62	-.50	-.75	-.62	"
G.H.	24	F	O.D.	+.37	+.12	-.37	-.50	"
			O.S.	+.50	pl	-.50	-.37	"
L.H.	24	M	O.D.	-1.62	-.87	-1.37	-1.12	"
			O.S.	-1.75	-.75	-1.25	-1.50	"
T.H.	26	M	O.D.	-.25	+.75	+.50	-.50	-1.50
			O.S.	pl	+.75	+.50	-.62	-1.62
T.H.	25	F	O.D.	-.12	-.37	-.62	-.25	-.50
			O.S.	+.50	+.25	pl	pl	-.12
B.H.	25	F	O.D.	-3.25	-2.75	-3.25	-3.12	not taken
			O.S.	-2.75	-2.50	-3.00	-3.00	not taken
A.H.	24	F	O.D.	+1.37	+1.37	+.87	+.87	"
			O.S.	+2.12	+2.37	+1.87	+2.00	"
J.H.	24	M	O.D.	+.50	+.75	pl	+.50	"
			O.S.	+.75	+.75	pl	+.25	"
D.H.	24	F	O.D.	-1.37	pl	-.75	-1.00	"
			O.S.	-1.25	+.25	-.50	-1.12	"
J.H.	24	M	O.D.	+1.25	+1.50	+1.25	+.25	"
			O.S.	+.87	+1.62	+1.37	+.62	"
G.H.	24	M	O.D.	-.75	-.50	-1.00	-1.25	"
			O.S.	-.75	-.75	-1.25	-1.37	"
L.H.	26	F	O.D.	+.87	+1.37	+.87	-.12	"
			O.S.	+.50	+1.37	+.87	-.37	"
N.H.	24	F	O.D.	-.87	-.62	-1.12	-1.25	"
			O.S.	-1.25	-.87	-1.37	-1.25	"
J.H.	24	F	O.D.	+.75	+.75	pl	pl	"
			O.S.	+1.00	+1.00	+.25	+.37	"
C.H.	26	F	O.D.	pl	+.50	pl	pl	-.12
			O.S.	-.25	+.50	pl	pl	-.37
A.A.	24	F	O.D.	-.75	-.75	-1.25	+1.25	not taken
			O.S.	-.50	+.25	-.25	pl	"
M.A.	25	M	O.D.	-.87	-.87	-1.12	-1.00	"
			O.S.	-1.00	-.87	-1.12	-1.12	"
A.A.	24	F	O.D.	+.50	+.75	pl	+.25	"
			O.S.	+.25	+.50	-.25	pl	"
TOTAL:	25				FEMALE TOTAL:	19	MALE TOTAL:	11

NAME	AGE	SEX	EXE	#4	#7	#71	#8	#8
R.P.	24	M	O.D.	-4.62	-5.50	-5.75	-5.12	-5.50
			O.S.	-4.75	-5.50	-5.75	-5.75	-5.75
W.P.	26	M	O.D.	-1.75	-2.00	-2.50	-1.25	not taken
			O.S.	-2.50	-2.50	-2.75	-2.00	"
R.P.	26	M	O.D.	-3.12	-1.75	-2.25	-3.50	"
			O.S.	-1.87	-1.50	-2.00	-2.87	"
M.P.	26	F	O.D.	+ .75	+ .75	+ .25	- .25	"
			O.S.	+1.12	+1.00	+ .50	- .12	"
K.R.	25	M	O.D.	+ pl	+ .62	+ .12	+ .12	"
			O.S.	- .25	+ .75	+ .25	+ .12	"
M.R.	24	F	O.D.	pl	+ .75	pl	pl	"
			O.S.	- .25	+ .75	+ .12	pl	"
L.R.	26	M	O.D.	-1.25	+ .75	+ .25	+ .50	+ .50
			O.S.	- .25	- .12	- .62	- .12	- .25
H.L.	25	M	O.D.	+ .50	+ .75	+ .25	pl	not taken
			O.S.	+ .50	+ .75	+ .25	+ .25	"
V.L.	25	F	O.D.	+ .75	+ .25	- .25	pl	"
			O.S.	+ .62	+ .25	- .25	pl	"
V.B.	24	F	O.D.	- .75	- .12	- .87	-1.00	- .62
			O.S.	- .25	pl	- .75	- .75	- .50
T.B.	26	M	O.D.	- .50	pl	- .50	- .75	not taken
			O.S.	-1.00	- .25	- .75	-1.00	"
D.B.	25	M	O.D.	-1.75	-1.37	-1.87	-1.87	"
			O.S.	-1.62	- .87	-1.37	-1.75	"
M.B.	25	M	O.D.	-4.50	-4.75	-5.25	-4.00	"
			O.S.	-3.75	-4.00	-4.50	-4.00	"
M.B.	25	F	O.D.	+1.12	+ .75	+ .25	+ .50	- .25
			O.S.	+1.50	+1.00	+ .50	+ .75	- .25
A.B.	25	F	O.D.	- .87	-1.00	-1.75	-1.25	not taken
			O.S.	-1.00	-1.00	-1.75	-1.00	"
T.B.	25	M.	O.D.	- .75	pl	-1.00	- .50	-1.75
			O.S.	- .75	- .25	-1.25	-1.00	-1.75
B.B.	25	M	O.D.	-1.25	-1.00	-1.25	-1.25	not taken
			O.S.	blind	blind	blind	blind	"
R.B.	24	M	O.D.	-1.62	- .87	-1.12	-1.00	"
			O.S.	-3.00	-1.37	-1.62	-1.87	"
B.B.	25	F	O.D.	+1.25	+ .87	+ .87	+ .62	"
			O.S.	+ .87	+ .87	+ .87	+ .75	"
B.B.	24	M	O.D.	-4.87	-4.37	-4.87	-4.62	"
			O.S.	-4.62	-4.37	-4.87	-4.87	"
D.C	26	M	O.D.	-1.87	-1.50	-2.00	-2.25	"
			O.S.	-2.62	-2.00	-2.50	-2.50	"
H.C.	24	M	O.D.	- .25	+1.00	+ .25	+ .25	+ .12
			O.S.	- .25	+1.00	+ .25	pl	+ .12
J.C.	24	M	O.D.	- .25	+ .87	+ .12	- .75	- .62
			O.S.	+ .50	+1.25	+ .50	-1.00	- .50
B.C.	25	M	O.D.	- .25	+ .50	pl	pl	not taken
			O.S.	- .25	+ .25	- .25	- .50	"
M.R.	25	F	O.D.	-6.00	-5.62	-6.12	+5.37	"
			O.S.	-6.00	-5.62	-6.12	+6.12	"

TOTAL: 25

FEMALE TOTAL: 8

MALE TOTAL: 17

NAME	AGE	SEX	TYPE	60	67	71A	75	80
D.M.	25	F	O.D.	+ .50	+1.75	+1.25	+1.00	+1.00
			O.S.	+ .25	+1.25	+ .75	+1.00	+1.00
C.R.	26	M	O.D.	-1.00	pl	- .50	- .25	-1.25
			O.S.	-1.00	pl	- .50	- .25	-1.25
H.R.	26	F	O.D.	- .25	- .25	- .25	- .37	not taken
			O.S.	- .25	- .25	- .25	- .50	"
H.C.	26	F	O.D.	- .25	+ .12	- .37	- .25	"
			O.S.	+ .50	+ .25	- .25	- .75	"
V.M.	24	M	O.D.	+ .25	+1.25	+ .75	+ .25	"
			O.S.	+ .25	+1.25	+ .75	+ .25	"
G.H.	24	F	O.D.	- .75	- .62	- .87	- .62	"
			O.S.	- .75	- .37	- .62	- .37	"
D.M.	24	M	O.D.	- .25	pl	- .75	-1.00	"
			O.S.	-1.00	- .50	-1.25	-2.25	"
E.H.	26	F	O.D.	+1.00	+ .75	+ .25	+ .25	"
			O.S.	+1.00	+1.00	+ .50	+ .25	"
M.M.	26	F	O.D.	+1.00	+ .75	+ .50	+ .50	"
			O.S.	+ .75	+ .75	+ .50	pl	"
S.M.	25	M	O.D.	+ .50	+1.00	+ .25	+ .12	"
			O.S.	+ .50	+1.00	+ .25	+ .37	"
J.M.	25	M	O.D.	+ .25	+ .87	+ .37	+ .25	"
			O.S.	pl	+ .37	+ .37	+ .25	"
O.H.	24	M	O.D.	-5.37	-6.00	-6.00	-6.00	"
			O.S.	-5.12	-5.12	-5.12	-5.00	"
H.M.	26	F	O.D.	- .25	- .50	-1.25	- .50	"
			O.S.	- .50	-1.50	-2.25	-2.00	"
H.M.	25	F	O.D.	+2.25	+ .25	+ .25	not taken	"
			O.S.	+ .75	+ .37	+ .37	"	"
R.M.	24	M	O.D.	-1.37	-1.00	-1.50	-1.37	"
			O.S.	-2.37	-1.75	-2.25	-1.37	"
C.M.	26	M	O.D.	- .87	- .12	- .62	- .62	"
			O.S.	- .87	- .50	-1.00	- .87	"
D.H.	25	M	O.D.	+ .50	+ .12	- .37	- .75	"
			O.S.	+ .25	- .25	- .75	- .50	"
H.M.	24	F	O.D.	+ .37	+ .87	+ .37	not taken	"
			O.S.	+ .50	+ .62	+ .12	"	"
M.M.	24	F	O.D.	-1.62	-1.50	-2.00	-2.25	"
			O.S.	-1.12	-1.25	-1.75	-1.75	"
O.P.	24	F	O.D.	- .37	+ .62	+ .37	+ .12	"
			O.S.	- .62	+ .87	+ .12	-1.00	"
M.P.	25	F	O.D.	+ .75	+ .75	pl	+ .25	"
			O.S.	blind	blind			"
S.P.	25	F	O.D.	- .62	+ .25	pl	pl	"
			O.S.	pl	+ .50	+ .25	pl	"
R.P.	25	M	O.D.	- .50	+ .50	- .50	- .50	"
			O.S.	- .62	+ .37	- .62	- .75	"
W.P.	25	M	O.D.	-4.25	-3.87	-4.62	-4.62	-4.75
			O.S.	-5.75	-4.37	-5.12	-5.37	-5.25
A.P.	25	F	O.D.	-1.75	-1.00	-1.50	- .75	not taken
			O.S.	-1.75	-1.25	-1.75	-1.00	"

TOTAL: 25

FEMALE TOTAL: 14 MALE TOTAL: 11

NAME	AGE	SEX	EYE	#4	#7	#7A	R0	CC
G.R.	25	M	O.D.	-7.75	-7.25	-7.75	-7.75	not taken
			O.S.	-6.50	-6.00	-6.50	-6.50	"
F.R.	24	M	O.D.	-5.25	-5.12	-5.87	-5.62	"
			O.S.	-4.75	-4.62	-5.37	-4.87	"
D.R.	25	M	O.D.	+5.37	+5.50	+4.75	+5.25	"
			O.S.	+5.25	+5.50	+4.75	+5.00	"
M.R.	26	F	O.D.	+ .50	+1.00	+ .50	pl	"
			O.S.	+ .50	+ .87	+ .37	- .25	"
V.R.	26	M	O.D.	+ .37	+1.25	+ .50	+ .75	"
			O.S.	+ .37	+1.00	+ .25	+ .50	"
F.R.	26	M	O.D.	+ .12	+ .37	+ .12	- .37	"
			O.S.	+ .12	+ .62	+ .37	- .37	"
N.R.	25	F	O.D.	-3.37	-3.12	-3.62	-3.62	"
			O.S.	-3.00	-3.00	-3.50	-3.12	"
M.R.	24	M	O.D.	- .50	+ .12	- .62	- .75	"
			O.S.	pl	+ .12	- .62	-1.00	"
D.R.	26	M	O.D.	+ .37	+1.25	+ .50	+ .50	"
			O.S.	+ .25	+1.37	+ .62	+ .62	"
W.R.	24	M	O.D.	- .87	+1.37	+ .87	+ .37	"
			O.S.	-1.12	+1.37	+ .87	+ .37	"
W.R.	26	M	O.D.	-1.50	-1.25	-1.75	-2.25	"
			O.S.	-1.50	-1.12	-1.62	-2.62	"
S.R.	24	F	O.D.	+ .12	+ .75	pl	not taken	"
			O.S.	+ .12	+ .87	+ .12	"	"
L.L.	25	M	O.D.	-1.00	- .37	- .62	-1.00	"
			O.S.	- .75	- .50	- .75	-1.00	"
D.L.	25	F	O.D.	- .12	- .12	- .62	- .25	"
			O.S.	+ .12	+ .37	- .12	- .12	"
J.M.	26	M	O.D.	-1.75	-1.87	-2.62	-3.25	-3.12
			O.S.	-3.12	-2.75	-2.50	-2.50	-3.25
S.M.	25	F	O.D.	- .37	+ .50	- .25	- .50	not taken
			O.S.	- .37	+ .37	- .37	- .37	"
R.M.	26	M	O.D.	-2.50	-1.50	-2.25	not taken	-2.00
			O.S.	-1.62	- .62	-1.37	"	-1.12
J.L.	26	M	O.D.	+ .37	+ .75	+ .25	+ .50	pl
			O.S.	- .12	+ .50	pl	+ .50	- .25
S.L.	25	F	O.D.	-1.37	-1.00	-1.50	-1.87	not taken
			O.S.	-1.00	-1.00	-1.50	-1.87	"
M.L.	26	F	O.D.	+ .75	+ .75	pl	pl	- .25
			O.S.	+ .25	+ .75	pl	pl	- .25
A.M.	24	M	O.D.	- .62	- .25	- .50	+ .25	not taken
			O.S.	- .50	- .25	- .50	pl	"
C.M.	26	M	O.D.	+ .75	+1.25	+ .75	+ .75	"
			O.S.	+ .75	+1.25	+ .75	+ .75	"
M.M.	24	F	O.D.	+1.50	+ .25	- .25	- .62	"
			O.S.	+ .25	+ .25	- .25	- .75	"
J.M.	26	M	O.D.	pl	+ .50	pl	- .50	"
			O.S.	- .37	+ .62	- .12	- .75	"
J.R.	24	M	O.D.	- .37	- .62	-1.12	not taken	"
			O.S.	- .37	- .62	-1.12	"	"

TOTAL: 25

FEMALE TOTAL: 8

MALE TOTAL: 17

NAME	AGE	SEX	MTS	#4	#7	#7A	#8	CC
J.T.	24	M	O.D.	-4.25	-3.25	-4.00	-4.25	-5.00
			O.S.	-5.00	-4.00	-4.75	-4.50	-5.25
S.T.	24	F	O.D.	-3.37	-3.75	-3.75	-4.25	not taken
			O.S.	-3.87	-4.62	-4.62	-4.87	"
M.T.	26	F	O.D.	+1.12	+ .87	+ .37	+1.00	"
			O.S.	+1.00	+1.00	+ .50	+ .87	"
C.R.	25	M	O.D.	- .12	+1.00	+ .50	+ .25	"
			O.S.	+ .50	+1.12	+ .62	+ .12	"
C.W.	25	F	O.D.	- .75	- .25	- .75	- .75	- .25
			O.S.	- .25	- .37	- .87	- .62	- .37
O.W.	26	M	O.D.	-1.50	-1.00	-1.50	-1.00	not taken
			O.S.	-1.25	-1.25	-1.75	-1.75	"
W.W.	25	M	O.D.	- .50	+ .25	- .50	- .25	"
			O.S.	- .25	+ .25	- .50	pl	"
H.W.	25	F	O.D.	-2.00	-1.25	-1.75	-1.75	-2.00
			O.S.	-2.37	-1.87	-2.12	-2.12	-2.87
W.W.	24	M	O.D.	+ .12	+ .37	- .12	+ .12	not taken
			O.S.	+ .12	+ .12	- .37	- .12	"
R.W.	26	M	O.D.	-5.12	-5.12	-5.62	-5.62	"
			O.S.	-4.87	-4.50	-4.75	-5.00	"
J.W.	24	M	O.D.	+ .37	+ .75	+ .50	+ .50	"
			O.S.	+ .37	+ .75	+ .50	+ .50	"
R.W.	26	M	O.D.	-2.00	pl	- .50	- .75	"
			O.S.	- .50	+ .75	+ .25	pl	"
S.W.	24	F	O.D.	-2.87	-2.37	-2.62	-2.75	-1.62
			O.S.	-2.87	-2.50	-2.75	-2.50	-1.75
D.W.	26	F	O.D.	+ .12	+ .50	pl	pl	not taken
			O.S.	- .25	+ .50	pl	- .25	"
L.W.	24	M	O.D.	-4.50	-4.00	-4.50	-4.50	-4.50
			O.S.	-3.87	-3.50	-4.00	-4.00	-4.00
J.V.	25	M	O.D.	-2.25	-1.50	-2.00	-2.50	not taken
			O.S.	-2.50	-1.37	-1.87	-3.12	"
J.W.	26	F	O.D.	-2.25	-2.25	-2.50	-2.50	"
			O.S.	-2.25	-2.25	-2.50	-2.50	"
R.W.	26	M	O.D.	- .12	+1.00	pl	pl	"
			O.S.	- .37	+ .87	- .12	- .37	"
S.W.	25	F	O.D.	pl	+ .75	pl	+ .50	"
			O.S.	+ .12	+1.00	+ .25	+ .25	"
M.W.	24	M	O.D.	-2.00	-1.75	-2.00	-2.25	"
			O.S.	-2.00	-1.75	-2.00	-2.25	"
K.W.	26	M	O.D.	+3.50	+4.00	+3.50	+3.75	"
			O.S.	+2.37	+2.87	+2.37	+2.37	"
J.W.	25	F	O.D.	- .87	- .37	- .62	- .75	-1.12
			O.S.	- .62	- .12	- .37	-1.25	-2.12
E.W.	24	F	O.D.	-1.50	-1.25	-1.50	-1.75	not taken
			O.S.	- .50	- .62	- .87	- .87	"
G.W.	26	M	O.D.	- .12	+ .62	+ .12	- .62	- .50
			O.S.	+ .50	+1.00	+ .50	- .62	- .25
R.Y.	24	M	O.D.	+1.00	+1.12	+ .50	+ .37	- .37
			O.S.	+ .50	+1.00	+ .37	- .25	pl
TOTAL:	25				FEMALE TOTAL:	10	MALE TOTAL:	15

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
J.R.	26	M	O.D.	-.50	-.25	-.50	pl	"
			O.S.	-.25	-.50	-.75	-.50	"
F.R.	26	M	O.D.	-.50	-.25	-1.00	-1.00	"
			O.S.	-.25	-.50	-1.25	-1.25	"
M.S.	26	F	O.D.	-2.62	-2.37	-2.87	-3.25	"
			O.S.	-2.37	-2.25	-2.75	-3.12	"
G.S.	24	M	O.D.	+.12	+1.12	+.12	+.12	"
			O.S.	+.25	+.75	-.25	-.25	"
L.S.	25	M	O.D.	-.50	-.62	-1.12	not taken	"
			O.S.	-.37	-.37	-.87	"	"
R.S.	24	M	O.D.	-.75	-.25	-.75	-.75	"
			O.S.	-.75	+.25	-.25	-.25	"
B.S.	25	M	O.D.	+.25	+.75	+.25	+.50	"
			O.S.	+.87	+.75	+.25	+.25	"
E.S.	26	F	O.D.	+1.37	squint			"
			O.S.	+.87	+1.75	+1.00	+1.50	"
J.S.	25	F	O.D.	+1.62	+2.12	+1.62	+.75	+.50
			O.S.	+1.37	+2.37	+1.87	+1.00	+.75
L.P.	24	F	O.D.	+.87	+.62	+.12	+.37	not taken
			O.S.	+.25	+.75	+.25	+.50	"
M.S.	24	F	O.D.	+1.00	+1.75	+1.00	pl	"
			O.S.	+1.00	+1.75	+1.00	pl	"
W.S.	26	M	O.D.	-1.50	-.50	-1.25	-2.50	"
			O.S.	-1.00	-.12	-.87	-2.12	"
M.S.	25	F	O.D.	-2.62	-2.37	-2.62	-3.12	"
			O.S.	+.50	+.37	+.12	+.37	"
M.S.	24	F	O.D.	+1.12	+1.50	+.75	+.50	"
			O.S.	+1.00	+1.50	+.75	-.25	"
D.W.	26	M	O.D.	+.25	+.25	pl	pl	"
			O.S.	-.25	+.12	-.12	-.37	"
D.W.	24	F	O.D.	-.50	+.37	-.12	-.12	"
			O.S.	-.12	+.50	pl	pl	"
R.W.	25	F	O.D.	+1.25	+1.50	+1.00	+.87	+.75
			O.S.	+1.25	+1.62	+1.12	+.87	+.62
M.W.	26	F	O.D.	-.12	+.62	-.37	-.12	not taken
			O.S.	-.62	+.37	-.62	-.37	"
M.W.	26	F	O.D.	-1.37	-.75	-1.00	-1.25	"
			O.S.	-2.00	-.62	-.87	-1.12	"
E.D.	24	F	O.D.	-1.00	-.75	-1.25	-1.12	"
			O.S.	-1.25	-1.00	-1.50	-1.50	"
J.D.	24	M	O.D.	-.75	-.37	-.87	-.87	"
			O.S.	-1.50	-.75	-1.25	-1.25	"
R.R.	26	M	O.D.	+.25	+.75	pl	+.25	"
			O.S.	+.25	+.75	pl	+.25	"
D.V.	25	M	O.D.	-1.12	-.50	-1.25	-1.12	-1.12
			O.S.	-2.12	-1.00	-1.75	-1.87	-1.87
B.T.	25	M	O.D.	-.75	-.12	-.87	-.87	not taken
			O.S.	+.25	+.50	-.25	-1.25	"
D.T.	24	M	O.D.	+.25	+.87	+.37	+.12	"
			O.S.	+.25	+.87	+.37	+.12	"

TOTAL: 25

FEMALE TOTAL: 12

MALE TOTAL: 13

NAME	AGE	SEX	EYE	#4	#7	#7A	RG	CC
B.H.	24	M	O.D.	+ .75	+ .87	+ .62	+ .50	not taken
			O.S.	+ .62	+1.12	+ .87	+ .50	"
C.H.	24	M	O.D.	+ .12	+1.25	+ .50	pl	"
			O.S.	pl	+1.12	+ .37	pl	"
J.H.	24	F	O.D.	-3.75	-3.62	-4.12	-4.25	-3.87
			O.S.	-3.75	-3.37	-3.87	-3.75	-3.87
R.H.	25	M	O.D.	-1.00	- .75	-1.25	-1.00	-1.50
			O.S.	-1.00	- .75	-1.25	-1.12	-1.62
J.H.	25	M	O.D.	+ .75	+ .87	+ .37	+ .12	not taken
			O.S.	+1.00	+1.12	+ .62	+ .62	"
S.H.	24	F	O.D.	-4.37	-3.87	-4.37	-3.87	"
			O.S.	-4.00	-3.87	-4.37	-4.12	"
R.H.	26	M	O.D.	- .37	+ .37	- .37	pl	"
			O.S.	pl	+ .25	- .50	+ .75	"
L.I.	26	F	O.D.	-1.12	-1.00	-1.50	-1.50	"
			O.S.	-1.00	- .75	-1.25	-1.62	"
B.C.	24	M	O.D.	pl	+ .37	+ .12	- .50	"
			O.S.	- .25	+ .25	pl	- .75	"
C.J.	24	F	O.D.	-1.00	- .75	-1.00	-1.00	"
			O.S.	-1.50	- .75	-1.00	-1.00	"
A.J.	24	F	O.D.	-1.00	- .62	- .87	-1.12	"
			O.S.	-1.00	- .50	- .75	- .75	"
TOTAL: 11				FEMALE TOTAL: 5			MALE TOTAL: 6	

TOTAL NUMBER OF PATIENTS: 510

TOTAL NUMBER OF EYES: 1014

TOTAL NUMBER OF FEMALES: 231

TOTAL NUMBER OF LEFT EYES: 507

TOTAL NUMBER OF MALES: 279

TOTAL NUMBER OF RIGHT EYES: 507

TOTAL NUMBER OF MALES RIGHT EYES: 278

TOTAL NUMBER OF MALES LEFT EYES: 277

TOTAL NUMBER OF FEMALES RIGHT EYES: 229

TOTAL NUMBER OF FEMALES LEFT EYES: 230

TOTAL NUMBER OF MALE EYES 555

TOTAL NUMBER OF FEMALE EYES 459

TOTAL NUMBER OF BLIND EYES 6

FEMALE BLIND EYES:

NAME	AGE	EYE
B.S.	26	O.D.
B.K.	25	O.D.
M.P.	25	O.S.

MALE BLIND EYES:

NAME	AGE	EYE
D.F.	24	O.D.
B.B.	25	O.S.
J.S.	25	O.S.

FEMALE REFRACTION SUMMARY:

	O.D.	O.S.
EMMETROPE:	10	13
HYPEROPE:	81	80
MYOPE:	138	137
TOTAL:	459	

MALE REFRACTION SUMMARY:

	O.D.	O.S.
EMMETROPE:	18	17
HYPEROPE:	88	86
MYOPE:	172	174
TOTAL:	555	

AVERAGE REFRACTIVE ERROR AS TAKEN FROM THE #4, #7, #7A, RG, AND CC.

FEMALE AVERAGE:

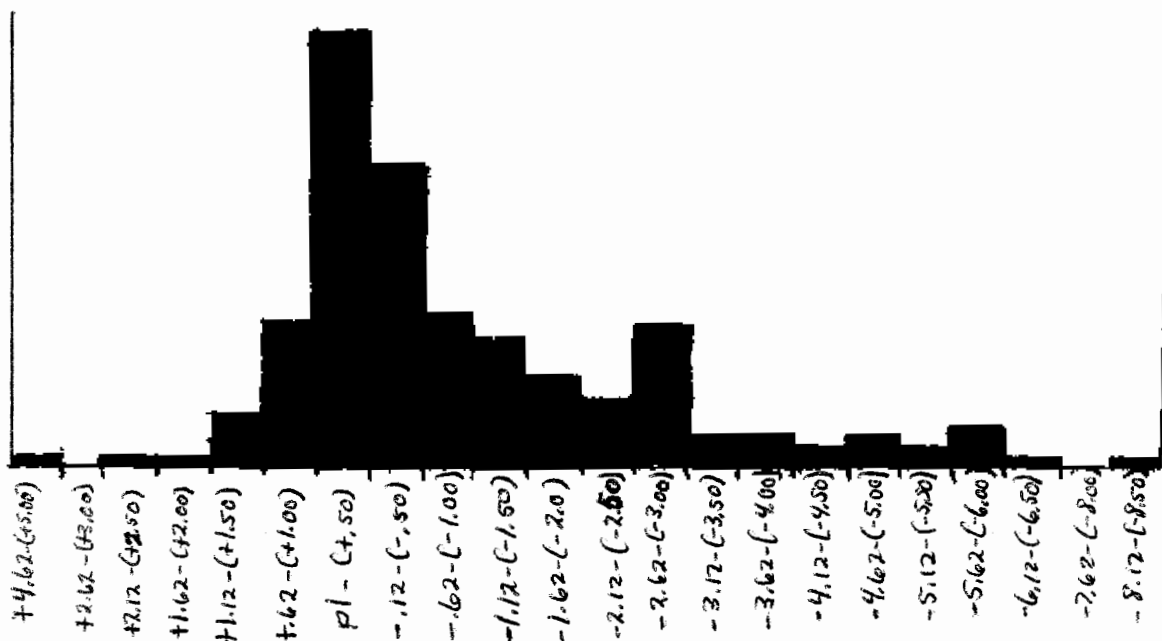
	O.D.	O.S.		O.D.	O.S.		O.D.	O.S.
PLANO	10	13	- .12	8	10	-3.37	1	0
+ .12	13	14	- .25	10	7	-3.50	2	1
+ .25	11	8	- .37	9	13	-3.62	0	2
+ .37	13	11	- .50	13	11	-3.75	3	1
+ .50	10	9	- .62	8	9	-3.87	1	1
+ .62	5	9	- .75	4	4	-4.00	0	1
+ .75	4	5	- .87	3	6	-4.12	1	1
+ .87	4	8	-1.00	5	5	-4.25	1	0
+1.00	6	3	-1.12	5	5	-4.37	0	1
+1.12	3	0	-1.25	5	6	-4.50	1	2
+1.25	3	3	-1.37	2	4	-4.62	2	2
+1.37	1	2	-1.50	5	7	-4.75	1	1
+1.50	0	1	-1.62	3	0	-4.87	1	1
+1.62	1	0	-1.75	2	0	-5.12	1	0
+1.87	0	1	-1.87	3	4	-5.37	1	1
+2.12	0	1	-2.00	4	1	-5.50	1	2
+2.25	1	0	-2.12	3	0	-5.62	3	0
+2.62	1	1	-2.25	0	1	-5.75	1	0
+2.75	1	0	-2.37	2	4	-5.87	0	1
+2.87	0	1	-2.50	4	4	-6.00	1	2
+3.00	0	1	-2.62	2	2	-6.25	1	1
+4.62	1	0	-2.75	5	2	-6.37	0	1
+4.87	0	1	-2.87	8	2	-7.87	0	1
+7.37	0	1	-3.00	3	1	-8.25	1	0
	88	93	-3.12	1	3	-8.62	0	1
			-3.25	0	2		24	24

TOTAL FEMALE EYES:

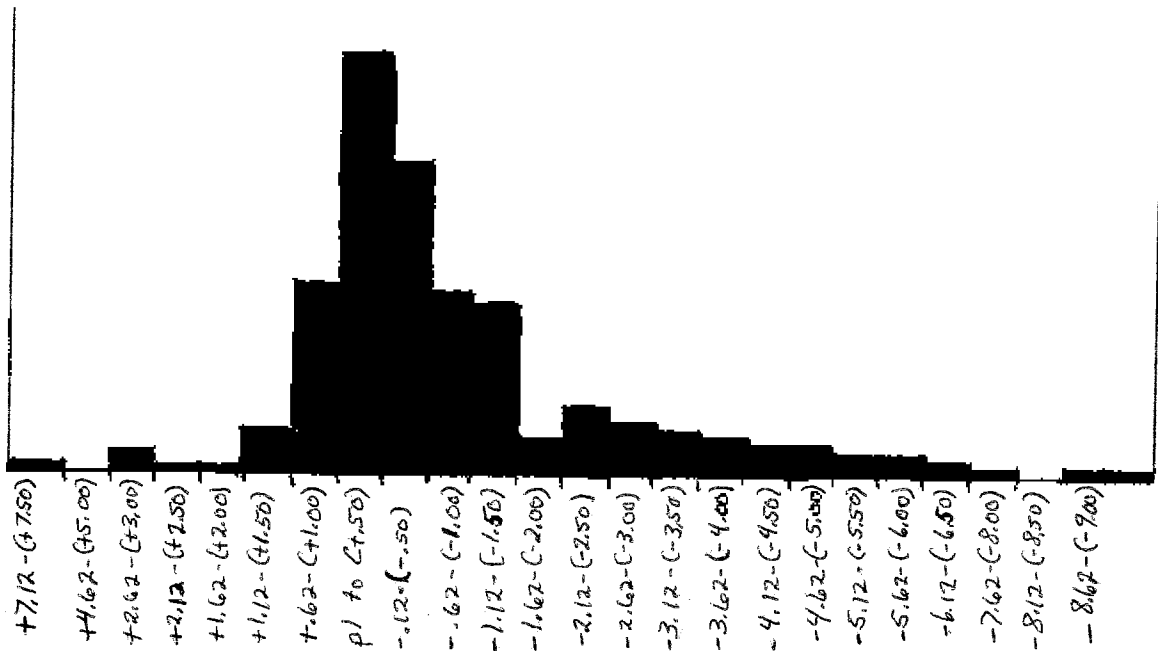
O.D. = 229 O.S. = 230

117 113

FREQUENCY DISTRIBUTION GRAPH OF THE FEMALES RIGHT EYE



FREQUENCY DISTRIBUTION GRAPH OF THE FEMALES LEFT EYE



FREQUENCY DISTRIBUTION DATA ON FEMALES IN ONE-HALF DIOPTER STEPS

	O.D.	O.S.		O.D.	O.S.
plano to + .50	57	55	-2.12 to -2.50	9	9
+ .62 to +1.00	19	25	-2.62 to -3.00	18	7
+1.12 to +1.50	7	6	-3.12 to -3.50	4	6
+1.62 to +2.00	1	1	-3.62 to -4.00	4	5
+2.12 to +2.50	1	1	-4.12 to -4.50	3	4
+2.62 to +3.00	2	3	-4.62 to -5.00	4	4
+4.62 to +5.00	1	1	-5.12 to -5.50	3	3
+7.12 to +7.50	0	1	-5.62 to -6.00	5	3
- .12 to - .50	40	41	-6.12 to -6.50	1	2
- .62 to -1.00	20	24	-7.62 to -8.00	0	1
-1.12 to -1.50	17	22	-8.12 to -8.50	1	0
-1.62 to -2.00	12	5	-8.62 to -9.00	0	1
	<u>177</u>	<u>185</u>		<u>52</u>	<u>45</u>

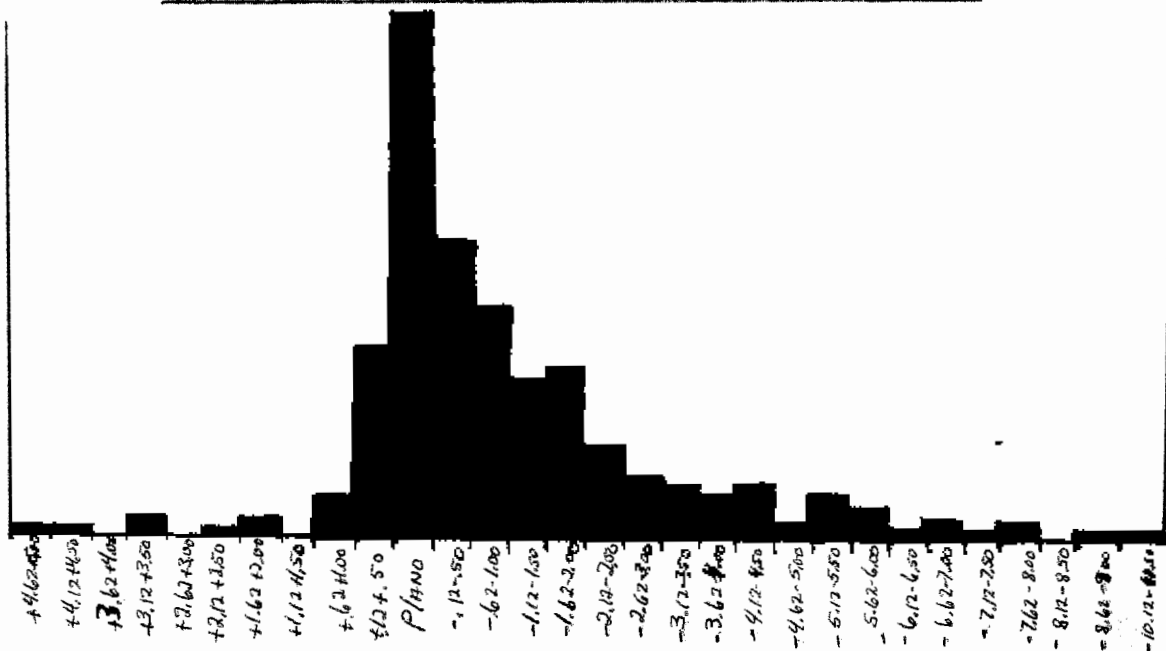
TOTAL OF FEMALE EYES: O.D. = 229 O.S. = 230

AVERAGE REFRACTIVE ERROR AS TAKEN FROM THE #4, #7, #7A, RG, AND CC.

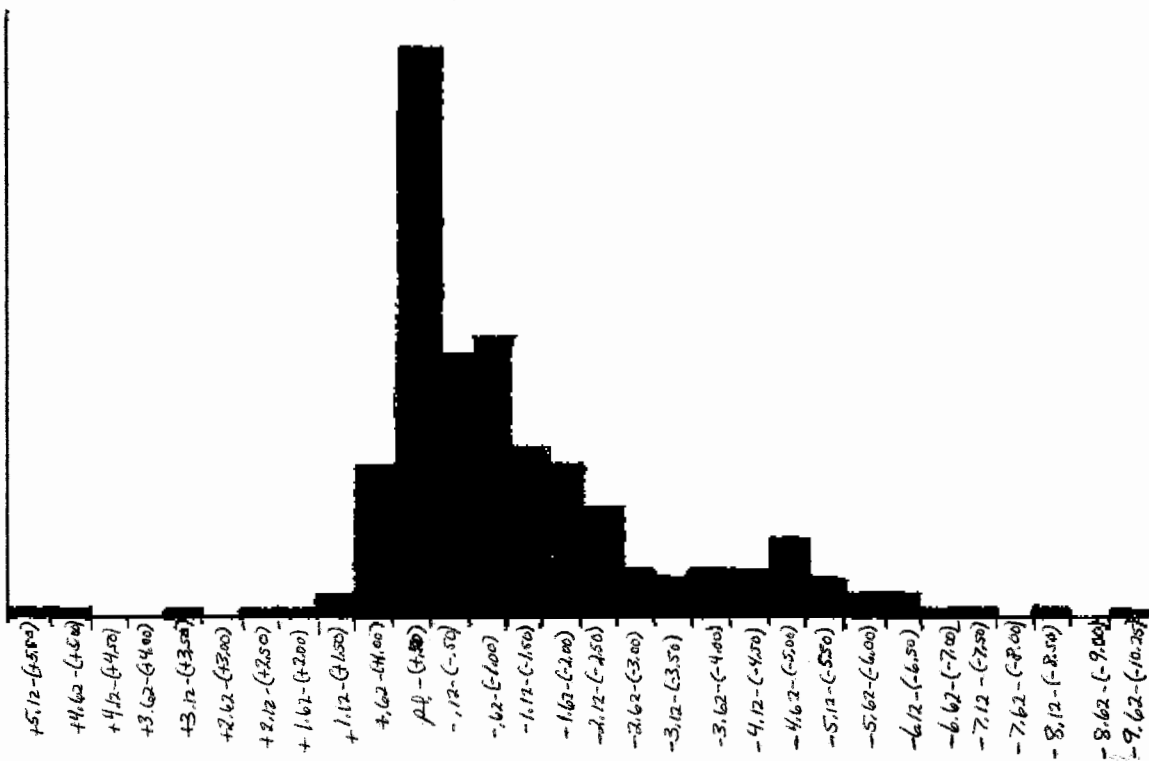
MALE AVERAGE:

	O.D.	O.S.		O.D.	O.S.		O.D.	O.S.
PLANO	18	17	- .12	8	17	-3.62	1	2
+ .12	12	16	- .25	12	9	-3.75	2	1
+ .25	8	14	- .37	8	4	-3.87	1	3
+ .37	17	11	- .50	11	5	-4.00	2	0
+ .50	14	17	- .62	9	9	-4.12	2	3
+ .62	10	7	- .75	10	14	-4.37	3	1
+ .75	8	4	- .87	3	4	-4.50	2	2
+ .87	5	6	-1.00	8	10	-4.62	1	2
+1.00	22	3	-1.12	7	6	-4.75	1	3
+1.12	3	1	-1.25	5	10	-4.87	0	3
+1.25	1	1	-1.37	4	3	-5.12	1	2
+1.37	1	1	-1.50	5	3	-5.25	1	1
+1.75	0	1	-1.62	5	3	-5.37	3	1
+2.25	1	1	-1.75	5	2	-5.50	1	1
+2.37	11	0	-1.87	4	7	-5.62	1	0
+2.75	1	0	-2.00	8	8	-5.75	0	1
+3.37	0	1	-2.12	3	3	-5.87	3	2
+3.62	11	0	-2.25	3	1	-6.12	0	1
+3.87	1	0	-2.37	4	3	-6.25	0	1
+4.62	0	1	-2.50	2	7	-6.37	0	1
+4.75	1	0	-2.62	3	2	-6.50	1	0
+5.12	0	1	-2.75	2	1	-6.75	2	1
+5.25	1	0	-2.87	1	3	-7.12	1	0
	<u>106</u>	<u>103</u>	-3.00	2	0	-7.37	0	1
			-3.12	1	0	-7.62	2	0
TOTAL MALE EYES:			-3.25	1	3	-8.25	0	1
			-3.37	3	1	-9.00	1	0
O.D. = 278			-3.50	2	1	-9.87	0	1
				<u>139</u>	<u>139</u>	-10.25	1	0
O.S. = 277							<u>33</u>	<u>35</u>

FREQUENCY DISTRIBUTION GRAPH OF THE MALES RIGHT EYE



FREQUENCY DISTRIBUTION GRAPH OF THE MALES LEFT EYE



FREQUENCY DISTRIBUTION DATA ON MALES IN ONE-HALF DIOPTRER STEPS

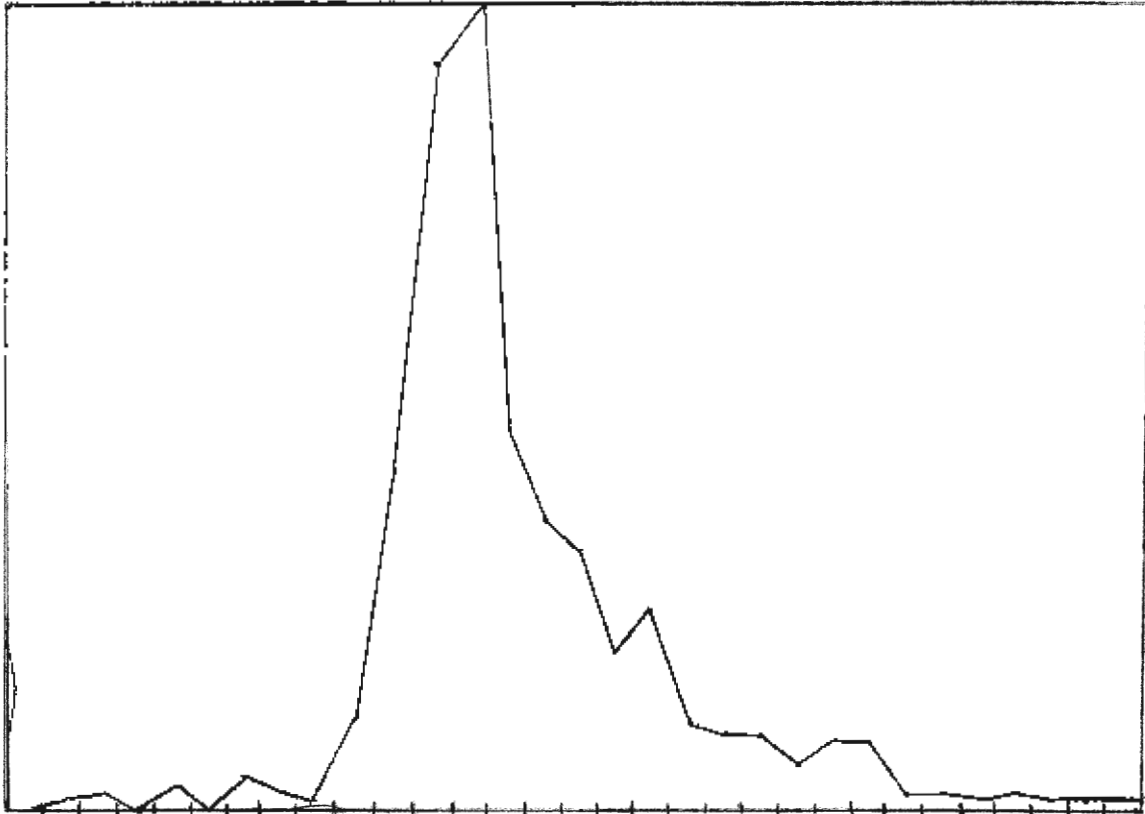
O.D.		O.S.		O.D.		O.S.	
plano to +.50	69	75	-2.12 to -2.50	12	14		
+ .62 to +1.00	25	20	-2.62 to -3.00	8	6		
+1.12 to +1.50	5	3	-3.12 to -3.50	7	5		
+1.62 to +2.00	0	1	-3.62 to -4.00	6	6		
+2.12 to +2.50	1	1	-4.12 to -4.50	7	6		
+2.62 to +3.00	2	0	-4.62 to -5.00	2	8		
+3.12 to +3.50	0	1	-5.12 to -5.50	6	5		
+3.62 to +4.00	2	0	-5.62 to -6.00	4	3		
+4.12 to +4.50	0	0	-6.12 to -6.50	1	3		
+4.62 to +5.00	1	1	-6.62 to -7.00	2	1		
+5.12 to +5.50	1	1	-7.12 to -7.50	1	1		
-.12 to -.50	39	35	-7.62 to -8.00	2	0		
-.62 to -1.00	30	37	-8.12 to -8.50	0	1		
-1.12 to -1.50	21	22	-8.62 to -9.00	1	0		
-1.62 to -2.00	22	20	-9.62 to -10.25	1	1		
	<u>218</u>	<u>217</u>		<u>60</u>	<u>60</u>		

TOTAL OF MALE EYES: O.D. = 278 O.S. = 277

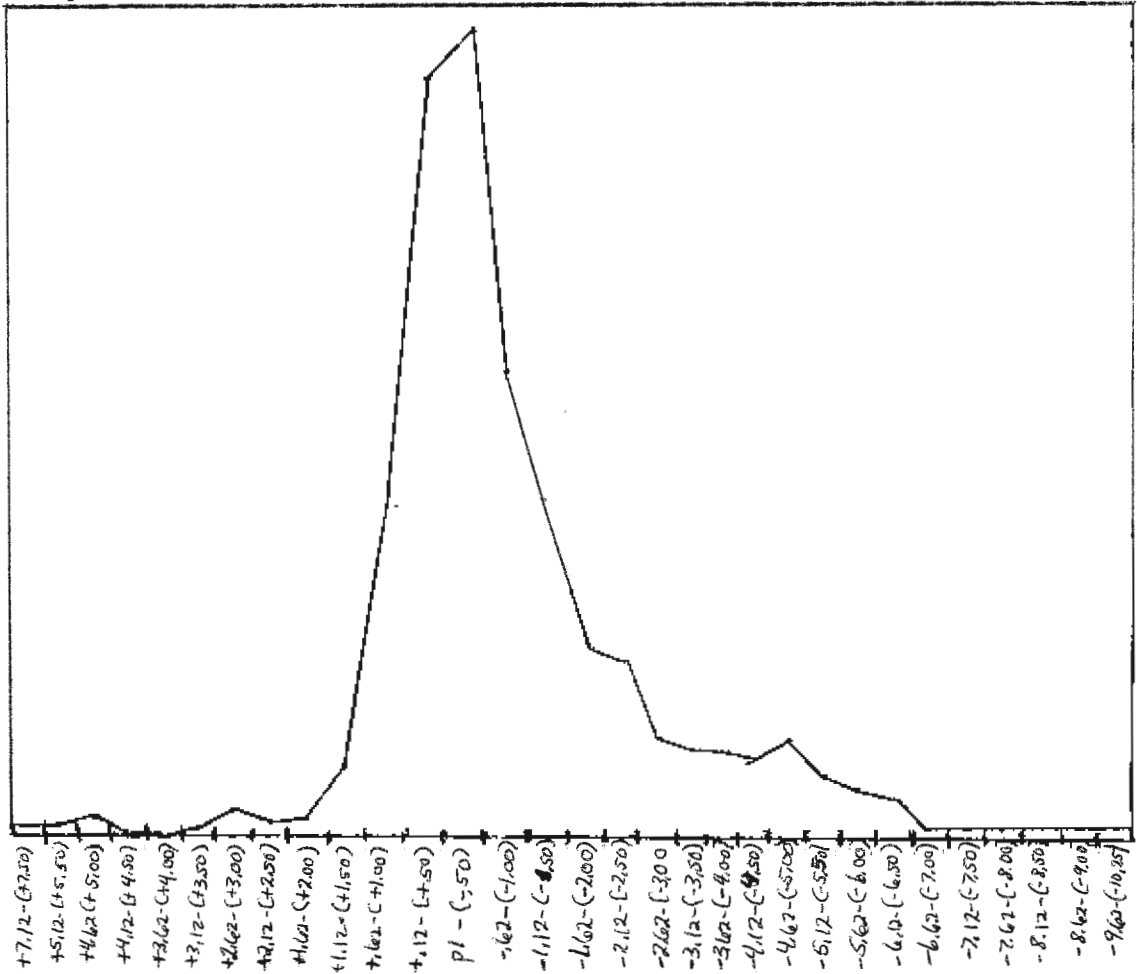
FREQUENCY DISTRIBUTION DATA ON THE COMBINED MALE AND FEMALE EYES IN ONE-HALF
DIOPTRER STEPS

	O.D.	O.S.		O.D.	O.S.
+ .12 to +.50	98	100	-2.62 to -3.00	26	13
+ .62 to +1.00	44	45	-3.12 to -3.50	11	11
+1.12 to +1.50	12	9	-3.62 to -4.00	10	11
+1.62 to +2.00	1	2	-4.12 to -4.50	10	10
+2.12 to +2.50	2	2	-4.62 to -5.00	6	12
+2.62 to +3.00	4	3	-5.12 to -5.50	9	8
+3.12 to +3.50	0	1	-5.62 to -6.00	9	6
+3.62 to +4.00	2	0	-6.12 to -6.50	2	5
+4.12 to +4.50	0	0	-6.62 to -7.00	2	1
+4.62 to +5.00	2	2	-7.12 to -7.50	1	1
+5.12 to +5.50	1	1	-7.62 to -8.00	2	1
+7.12 to +7.50	0	1	-8.12 to -8.50	1	1
plano to - .50	107	106	-8.62 to -9.00	1	1
- .62 to -1.00	50	61	-9.62 to -10.25	1	1
-1.12 to -1.50	38	44	TOTAL :	507	507
-1.62 to -2.00	34	25	TOTAL NUMBER OF EYES=	507 + 507	
-2.12 to -2.50	21	23	TOTAL =	1014 EYES	

FREQUENCY DISTRIBUTION GRAPH OF THE COMBINED MALE AND FEMALE RIGHT EYES



FREQUENCY DISTRIBUTION GRAPH OF THE COMBINED MALE AND FEMALE LEFT EYES



FREQUENCY DISTRIBUTION GRAPH OF THE MALE AND FEMALE RIGHT AND LEFT EYES

