ogical extreme of emotionality bordern psychosis. It should be emphasized a any of the five factors are insufficient any type of pathological diagnosis. A in Tempersment Profile Chart in con-tation of scores is recommended. Its composite of those presented in this

800 Senior High School Students 406 girls, Lincoln, Nebraska)

D	С	R	Centiles
0-5	0-8	69+	99
6-8	9-11	64-68	96-98
9-10	12-15	60-63	89-95
11-15	16-20	54-59	77-88
16-20	21-26	49-53	60-76
21-26	27-33	43-48	40-59
27-32	34-39	37-42	23-39
33-38	40-45	30-36	11-22
39-42	46-50	24-29	4-10
43-49	51-55	16-23	1-3
50+	56+	0-15	0

8 University of Nebraska Students

D	C	R	Centilez
0-1	0-5	70+	99
2-2	6-9	66-74	96-98
5-8	10-15	61-65	89-95
9-12	16-20	53-60	77-88
13-17	21-24	46-52	60-76
18-23	25-31	38-45	40-59
2:'-31	32-38	30-37	23-39
3:'-38	39-46	23-29	11-22
3:\-44	47-53	15-22	4-10
45-49	54-59	10-14	1-3
50 +	60+	0-9	0

based upon 80 Adults red 22 tc 54 years, Los Angeles, Calif.)

63+ 99 62 96-98 55 89-95 47 77-88 41 60-76 -36 40-59
55 89-95 47 77-88 41 60-76 -36 40-59
47 77-88 41 60-76 -36 40-59
41 60-76 -36 40-59
-36 40-59
-00
-81 23-39 -24 11-22 -19 4-10 -15 1-3 -13 0

and R. B. Guilford, Personality Factors, D, R. T. L. 1939, 34, 21-36. dson. The Theory of the Estimation of Test Reli-, 151-160. Apr Differences and Sex Differences in Some Inteo Gen. Psychol., 1944, 31, 219-229. stust, Riologic Factors in the Adjustment of Ner d., 1943, 4, 129-139. satisfies in Psychology and Education, New Yorks 42, Ch. VII.

83. In social conversations, are you usually a listener rather than a talker?	Yes	?	No	83
84. Do you frequently feel that people around you are talking about you?	Yes	?	No	84
85. Do you like to have time to be alone with your thoughts?	Yes	?	No	85
86. Do you find it difficult to go to sleep at night because experiences of the day keep "running through your head"?	Var	•	N	86
87. Are you inclined to take your work casually, that is, as a matter of course?	Ves	2	No	87
88. Are you inclined to avoid meeting certain people on the street (bill collectors and	169		INC	
the like not included)?	Yes	2	No	88
89. Do you find it easy, as a rule, to make new acquaintances?	Yes	?	No	89
on are you inclined to be quick and sure in your actions?	Yes	?	No	90
of are you troubled about being self-conscious?	Yes	?	No	91
02 Do you often feel restless while listening to a lecture?	Yes	?	No	92
as Do you believe that people often misunderstand what you say?	Yes	2	No	93
Do you limit your friendships mostly to members of your own sex?	Yes	?	No	94
as Does your mind wander badly so you lose track of what you are doing?	Tes	?	No	95
of Are you often in a state of excitement?	.Yes	3	No	96
Proven dislike to talk about yourself, even to close friends?	.Yes	1	NO	97
Do you prefer to be conservative in the matter of dress and personal appearance?	.Yes	1	NO	98
Do you like to discuss the more serious questions of life with your friends?	Yes	?	No	99
the second to keep your opinions to yourself during group discussions (not				
1 l'enterional?	Yes	?	No	100
in this line out complicated problems?		3330	140	101
182 Are your inclined to be introspective, that is, to analyze yourself.)es	4	NO	102
				103
	Ies	5	No	
				105
	I es		140	100
106. Are you usually unconcerned about the futures and athletic contest that you com- 107. Do you usually become so absorbed in watching an athletic contest that you com-	Van	2	No	
107. Do you usually become so absorbed in watching an dutient contest and pletely forget yourself?	Var	,	No	
pletely forget yourself?	Ves		No	109
108. Can you relax yourself easily when sitting down?	Ver		No	110
 109. Are you usually a "good mixer"?	Ves		No	m
10. Do you usually prefer a "slapstick" comedy to a serious draine though you are tired? 111. Do you frequently find it difficult to go to sleep at night, even though you are tired?			No	C
111. Do you frequently find it difficult to go to sleep at high, even usage for a single for the state of the	Ies		No	
112. Would you rate yourself as a happy-go-lucky individual? 113. Do you ever take your work as if it were a matter of life or death?	Ver		? No	Re-185393530
 113. Do you ever take your work as if it were a matter of the of declaration. 114. Do you often "have the time of your life" at social affairs? 114. Do you often "have the time of your life" at social affairs? 	Ies		? No	
114. Do you often "have the time of your life" at social allarst	Ies		? No	242200000000
115. Do you think there is a great user more app	Ies	658	? No	BE CONTRACTOR
 115. Do you think there is a great deal more happiness in the world that more particular that more particular that the particular th	Ve		? No	210222036352
HIT How won often lost sleep over your workers		600		1. Starting
118. Do you like to mix socially with peopler wouth are generally superior to those of	Ye		? No	, 119
			? No	120
iormer denergijons				
120. Are you inclined to think over your failures long after they die paint 121. Are there times when your mind seems to work very slowly and other times when 121. Are there times when your mind seems to work very slowly and other times when	Ye	s	? No	0 121
			? No	
	Ye	s	? No	o 123
122. Are you inclined to avoid all people wing of "Rah Rah" entitusiasm	IT			
tes, bo you enjoy participating in a site as keenly that you cannot get men out a	Ye	S	? No	
. Do you usually leel disuppointante	Ye	S	? No	
las national anti-	Ye	15	? N	
125. Do you derive more real satisfaction from social activities than from anyuning energy 126. When you stop to consider your future, does it usually seem very optimistic? 127. Are you sometimes so "blue" that life seems hardly worth living?	Ye	-	? N	0 127
127 Are you sometimen so "blue" that life seems hardly worth hving	~			
The you sometimes so blue man				1 1 2 2 2

				1
k" deserves to				
to be without	T	No	25	
Yes	1	No	26	
Yes	1	No	27	1
APPL-STIMATION AND PROPERTY AND ADDRESS AND AD	1	No	28	3
bit like you !. Yes	1	No	22	
y to see what			-	
Yes	1	No	30	
t1Yes	1	Ne	31	1
y in need of				
Yes	1	No	32	
Yes	1	No	33	-
Yes	1	Nu	34	
Yes	1	No	35	-
Yes	1	Yo	36	
obbies rather	12			-
and the second LCS	1	No	87	1
even though		No	38	
Yes	*	No	1.25	1
Yes		Constant Constant	39	
E 167 I CS	1	No No	40	1
Yes			41 42	
Yes	1	No	6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
oid youtYes		No	43	
Yes	1	No	44	
	1	No	45	
Yes	1	No	46	
wone feelings				
Yes	1	No	41	1
to do things			48	
	1	140	10	
disturbs your Yes	-	No	49	
Yes	9	No	50	
oif as to who				
out as to who	9	No	51	
Yes	1	No	52	
mi look anam			12	
Yes	1	No	53	
et ahead f Yes	1	NO	54	
ouchy ! Yes	1	No	55	
Yes	1	No	56	
to the plans			57	
Yes	1	No	58	
weak1Yes	1	No		
Yes	1	No	59	
Yes	1	No	60	
ow a leader 1. Yes	1	No	61	
beeting some-		BT.	62	
YA8	1	No No	63	
Yes	1	No	64	
own game f Yes	1	140		
can without	1	No	65	
Yes	1	No	66	
	1	No	67	
Yes	1	No	68	
108	12.58	12 2 2 2 2 2 2 2		

THE GUILFORD-MARTIN PERSONNEL INVENTORY

Manual of Directions and Norms

Purpose of the Test .--- This instrument was designed with two crimary purposes in mind. It was first of all designed as a means of assisting supervisors of workers in business and industry to single out and to diagnore those individuals who are personally maladjusted in their jo's, particularly those who are discontented and likely to become troublemakers-hence the name, "Personnel inventory." The locating of potential troublemakers in advance of their being hired, or if already employed, in advance of their overt difficulties, is undeniably a worth while goal. As a second motive, the test was designed to extend the list of temperamental traits already assessed by Guilford's "Inventory of Factors S T D C R." The temperamental area covered by the new inventory may be roughly designated by the term "raranoid," though only the extreme symptoms deserve that appellation borrowed from psychopathology. The new Inventory, merefore, has general clinical applications which extend beyond the industrial situation.

The Traits.—Factor analysis studies¹ and clinical experience² show that there are several aspects to the paranoid disposition, though it seems probable that these aspects are interrelated. These aspects may be described as (1) subjectivity (taking things personally; ideas of reference; touchiness³), (2) belligerence (domineering attitude; craving for superiority), (3) suspiciousness, and (4) faultfinding or hypercriticalness. In setting up the lists of items diagnostic of these traits it was found that the last two items diagnostic of these traits independence to justify separate scores. The list of traits measured by the Inventory therefore reduces to three. Using the names of the more favorable end of the scale in each instance, they are:

O-objectivity (as opposed to personal reference or a tendency to take things personally)

Ag-agreeableness (as opposed to belligerence or a dominating disposition and an overreadiness to fight over triffes)

Co-cooperativeness (as opposed to faultfinding or overcriticalness of people and things)

Selection of the Items.—More than 200 items were constructed with the supposition that they would be diagnostic of one or more of the four aspects listed above. This list, stated in question form to be answered by either "Yes," "?," or "No," was administered to 250 men and 250 women workers who were or had been employed by a number of California industrial concerns, business offices, and eivil service units. The age range was from 20 to 45. A uninimum requirement of sixth-grade literacy insured adequate reading ability for all subjects. An effort was made to make the same of 500 individuals truly representative of a diverse employed population. Preliminary scoring keys were prepared on the basis of the best statistical and clinical evidence at hand. Four hundred papers were scored with these keys and

after the test of internal consistency was applied to every item, approximately 150 items remained as significantly diagnostic as evidenced by their correlation with highest and lowest quarters of the sample.

Reliability of the Scores.—Scoring weights were assigned to responses of the items in accordance with a method devised by Guilford.⁴ The reliability of the three scoring keys was checked by applying them we the 100 papers not used in deriving the weights, includir men and 50 women. The split-half method was employed, dr...ig the scored items into two random halves. Pearsonian coefficients of correlation were computed and reliabilities were estimated by means of the Spearman-Brown formula. These coefficients were .83 for trait O, .80 for trait Ag, and .91 for trait Co. Such reliabilities are sufficiently high for vocational and winical purposes.

Intercorrelations of the Trait Scores.—As is usually true c², inventories of this type, there are intercorrelations among the trait scores. Previous experience has shown that scorings may be intercorrelated even when the traits themselves are probably independent, due to the fact that 'iems are not pure indicators of traits. Very few items were scored for more than one trait. The intercorrelations in the sample of 100 were: O and Ag, .64; O and Co, .55; and Ag and Co, .63. These interrelations are low enough to make separate scores useful.

Validity of the Scores .--- It was possible to make a brief study with the new Inventory which throws some light on its validity in an industrial situation. A Southern California industry administered the test to 51 employees among whom were a large number whom the personnel executives regarded as troublemakers or malcontents. The remaining employees in the group were regarded by the same judges as being satisfactory from tho same point of view. The scores for traits O, Ag, and Co yielded very flat distributions of the 51 cases, tending distinctly toward bimodality. Having no knowledge of the proportion of satisfactory and unsatisfactory workers in the group, and having no knowledge of which individuals belonged in each category, it was decided, in view of the form of the distributions, to accept the medians as the critical scores. Any individual who was I elow the median on two or more traits was predicted to be in the unsatisfactory group. Of the 22 workers judged unsatisfactory by management, 75% were detected as unsatisfactory in terms of the critical scores adopted for the purpose. Of the 29 judged as satisfactory by management, only 34% were mistakenly placed in the unsatisfactory category by the test. It is possible that the individuals had not all been correctly judged by the personnel observers. It is likely that critical scores derived empirically would have given better prediction. At any rate, a test which makes more than twice as rainy correct predictions as errors can be said to offer definite usefulness. It is strongly urged that

similar experiments be conducted in any particular industrial situation before the Inventory is put to the use of making this kind of discriminations. Critical scores based upon experience are best for each situation. In this way the maximal usefulness of the test can be assured, and its validity for the purpose intended can be demonstrated. The Test Division of the Sheridan Supply Co. is prepared to render advisory service on technical matters in connection with such validation studies.

Administration of the Inventory .-- Best results will be obtained if the test is administered to subjects individually or in small groups under supervision. An appeal for full cooperation is desirable. Idealry, any implication that the individual's future status will hinge on the outcome should be avoided. The instructions as printed on the test booklet should not be altered by additions or amendments. Every person should be given sufficient time to complete the test. All can usually finish within 30 minutes.

Scoring the Inventory .- See page 1 of transparent scoring keys for directions for scoring. The score in each factor is the total number of points from the four pages for that factor. Record these three totals at the top of page 1 of the test booklet at the right of "Raw Scores." The raw scores may now be converted into scaled scores (C-scores) by reference to the table helow:

C-Score		Raw Scores		C-Score	
	0	As;	Co		
10	71+	50+	97+	10	(highest 1%)
9	68-70	63-55	89-96	9	(next 3%)
8	62-67	47-52	81-88	8	(next 7%)
7	66-61	42-46	72-30	7	(next 12%)
6	49-54	37-41	65-71	6	(next 17%)
ð.	42 43	32-36	54-64	Б	(average-20%)
4	26-41	27-31	45-53	4	(next 17%)
3	28-35	22-26	85-44	3	(next 12%)
2	20-27	17-21	27-34	2	(next 7%)
1	13-19	12-16	20-26	1	(next 3%)
0	0-12	0-11	0-19	0	(lowest 1%)
STRUCTURE STRUCTURE					

Interpretation of the Scores. - Scores have meaning only when referred to certain landmarks, such as averages, highest scores and lowest scores. More definite ideas can be obicined from a set of norms such as those in the above table. This table of norms was derived from the 500 papers upon which the item selections and reliabilities were also based. A standard C-scale of 11 points is used for all three traits. Each person's raw score can be readily converted into the common C-scale in the follow. ing manner. Note that corresponding to each C-score the highest and lowest raw score is given for each trait. Thus, all haw scores from 54 through 64 in trait Co correspond to a C-score of 5. Raw scores from 0 through 12 on trait O correspond to a C-score of 0. Scores of 56 and up for trait Ag correspond to a C-score of 10. A person with raw scores of 28, 13 and 70 for traits 0, Ar and Co, respectively, would have C-scores of 3, 1 and 6 in those same traits. From these C-scores it can readily be seen that this person is rather low in objectivity, in the lowest four percent of the group in agreeableness, and just slightly above average in cooperation (5 is always average). High scores here also mean favorable characteristics and low scores mean unfavorable characteristics. The C-scores have the distinct advantage of placing an individual with respect to the distribution of a large sample. It must be remembered, however, that the sample on which the norms were based was not seeking employment or promotion. In groups under other circumstances scores may not be at all comparable. The norms as given apply where rather full cooperation and honesty of the individual may be taken for granted.

1.	One unpublished neurotic tendencie	study, and	C. I. Mosier,	, A factor	analysis or	CEICAL
	neurotic tendencie	s, Psychomet	rika, 1937, 2	, 263-287.	1121236 200	1041
2	R. H. Johnson	The inheritar	too of norem	ality Edu	cation. Jun	l That

- 599.597 Mosier, Op. cit. This trait probably corresponds with Mosier's factor of
- hypersensitivity.
- J. P. Guilford, A simple scoring weight for test items and its reliability, Psychometrika, 1941, 4, 367-374.
- 69. Do you feel that many young 1 70. Are most people thoughtless of 71. Are you continually comparing 72. Do a lot of people you have ka 73. denerally speaking, do you b biuself deserves to "take a be 74. Do you find that generally if 75. Can a person get ahead by his 76. Do you consider yoursel ; rath 77. Do you think your generation generation hadf..... 78. De other people pay more atter 79. When things become dull do yo 80. Do you think the educational respects 1..... 81. Do you usually receive criticisa 82. Have you ever found out that know as much as you did about 83. Is there anyone you know perso 84. Are there important changes yo you could have a substantial in 85. Do you think that most people a In most situations is it all righ 86. to a friend ?..... Have you very much resented 87. orders ?..... 88. Are you as quick as other peop 89. Do people frequently talk about 90. Is it almost unbearable for you 91. Is it true that people will gene himself once in a while ?..... 92. Have you known many "two-i 93. Can most people be trusted ed 94. Do you derive considerable sat them to f 95. Do you believe that all public interests first? 96. Should the government take business?..... 97. Ats your feelings rather easily 98. Generally speaking, do you being up what is usually "cuthroat" 99. Do you usually get more chan y 10%. Are there many kinds of work beneath you?.... 101. Do you think that a lot of sympathy from others?..... 102. Do people ever accusa you of b 103. Have you often felt that certain 104. Would you prefer a hard jo uninteresting f..... 105. Have you frequently wshed regard you as an inferior 1..... 106. Have you frequently become members of your family "..... 107. Is it difficult for you not to bea 108. If you could have your way ab nature ?....

Page 4

100	Are many of your supposed friends really insincere?	1	No	100
	The second shink you are "hard-boiled"	1	No	110
111.	Does everything that happens seem to have a relationship to your own me or			STATISTICS.
112.	Do some people become so bossy or domineering that you want to do the opposite of Yes		No	
112	The stand deliberately make things hard for you!		No	
1000	the second that overvane is sugainst you in the second the second	1	No	114
115.	When criminals make a daring escape from prison do you sometimes secretary nop-	1	No	
116.	and anterest for the opinions of others I		No	
1.	the state of the month foll you what you should do to the state of		No	117
118.	Do you often feel that you are left out of things, perhaps unintentionally, in group	1	No	118
119.	activities f	1	No No	and the second
120.	They the Heited Stated Hovernment Owe every Une of the heited a second		140	12:
121.	Is the person who carelessly leaves valuable property lying around as inden to stand	1	No No	121
122.	as the person who appropriates it for his own destine with them? Yes			123
123.	will meet meet hear like vatening on you are clothing with them to the	1	1200	124
124.	Are you deserving of things far better than is you present lot?			
125.		1	No	125
126.	When you lose something do you often begin to suspect someone of either having taken it or having misplaced it?	1	No	126
127.	taken it or having misplaced it?	1	No	127
128.	for the purpose of organizing a mass protest?Yes	1	10.00	128 129
129.	Ware wan ever serionsly couple-crossed (140	149
130	Do you believe the parole system works more to the advantage of the prisoner than to the advantage of society 1	1		130 131
131	Do you tend to let people run over you more than you should for your own good ? Yes	1	10000	132
132	Have you frequently felt like telling "nosey" people to mind their own business ? Yes	.,	10 BAR	133
133	Have you often found it necessary to stand up for what you believe to be right ! Yes	9		134
134	. Do you usually seek to become an officer in any organization to which you belong?. Yes			
	. Were you ever so deeply in debt that you did not know where the money was coming from to pay what you owed?	1		135 136
136	In group undertakings do you usually manage to have your own plans put into effect?. Yes	1		137
137	. Do other people often blame you for things unfairly?			
138	In most cases is it important to get what you want even if you have to come into conflict with other people in order to get it?	1	No) 138
239		1	Ne	
140	Vog	1	No	Dis El Unit of
141	ΥΛ.		N	ECREDIT CON
142	Yes		N	4.40
143). Is there any person whom you would particularly like to "put in his (or her) place"?. Yes		N	IS COMPANY OF
144	1. Do you believe that most people require someone to tell them what to dof Yes		N	
145	5. Is there any piece of music that usually makes you weep when you hear it?Yes		N	0 145
146	Are people in general out to get more than they give 1Yes		N	0 144
147	be not as represented ?Yes		I N	o 141
148	B. Do people near you sometimes whisper or look knowingly at one another when they think you are not noticing them?		I N	
14	9. If someone rudely crowds ahead of you in line, do you tell him where he belongs f Yes		N	0 149
15			9 N	o 150
				COLORED THE

INVENTO

Mr. Mrs. Name Miss. (Cross out two) Nearest age (encircle): 15 20 25 30 35 40 45 50 55 6 DIRECTIONS: Below you will f "?." or "No." Read each question i draw a circle around the answer that are unable to decide between the "Yes answer to any of these questions excep 1. Do you believe that you know ; know theirs?..... 2. Does your personality stand out 3. When climbing stairs do you oft 4. Do you often feel the need for a

When you think you recognize him whether you have met him 5. Do you have one or more abiliti 6. people? 7. Do you express such emotions a 8. Do you feel that people almost 9. Do you become very annoyed wh Do you find it difficult to get ri give your time?...... 11. Have you ever kept a personal 12. When going somewhere in an au in slow-moving traffic? 13. Are you afraid of deep water? ... 14. Are you inclined to be quick it 15. Do you frequently feel thwarted 16. Do you usually hesitate to take so makes you appear conspicuor 17. Do you cry rather easily? 18. Do you believe you have been be Are there ever times when you 19. did not control you self? 20. Do you always know what to de

 20. Do you always know what to a
 21. At work or at play, do other per
 22. Do you often wish you were str than you?
 23. Do you (or would you) ever ha
 24. Do you often find that you can
 25. Do you find it easy to start a c
 26. Do you often become irritated o
 27. If an acquaintance of yours has about you, do you usually "have

(Not to be reproduced

AN INVENTORY OF FACTORS STDCR

by J. P. GUILFORD, Ph.D.

Manual of Directions and Norms REVISED EDITION

The Factors Described .--- This Inventory was developed on The Factors Described.—This Inventory was developed on basis of factor-analysis studies of items in personality ques-maires. The factors S, T, D, C, and R taken together were main to encompass the area of personality traditionally known introversion-extraversion. Strictly speaking, only factors S, T, d R belong in this category, but they represent three distinct was of introversion-extraversion. Factors D and C are more empirically designated as emotionality factors which were propriately designated as emotionality factors which were merly confused with the Jungian categories. More specifically, factors are defined in what follows immediately. Each factor actors are denned in what follows immediately. Each factor mally represents a descriptive dimension of personality with ropposite poles. The letter designation was adopted to stand the more descriptive end of the scale in each case.

lo

lo

lo

n

D

D

D

D

- -Social introversion-extraversion.-Shyness, seclusiveness, tendency to withdraw from social contacts, versus sociability, tendency to seek social contacts and to enjoy the company of others.
- T-Thinking introversion-extraversion.-An inclination to meditative or reflective thinking, philosophizing, analysis of one's self and others, versus an extravertive orientation of thinking.
- D-Depression .- Habitually gloomy, pessimistic mood, with feelings of guilt and unworthiness, versus cheerfulness and optimism.
- D-Cycloid disposition .- Strong emotional fluctuations, tendencies toward flightiness and emotional instability, versus uniformity and stability of moods, evenness of disposition.
- R-Rhathymia .- A happy-go-lucky, carefree disposition, liveliness, impulsiveness, versus an inhibited, over-controlled, conscientious, serious-minded disposition.

The Scorng Weights, -The 175 items of the Inventory were thind after successive tests of internal consistency of the the sophomore level. The Inventory is therefore best applied to make a sophomore level. The Inventory is therefore best applied to main individuals, and should give most valid results when there is reasonable cooperation from the testees. The keys for stors B. and C. give all disputement results a weight of one ators S, D, and C give all significant responses a weight of one with and those for factors 'T and R weight some responses two many and those for factors 'T and R weight some responses the whits. The demand for simplicity of scoring weights was di. ated the requirements of machine scoring. It was found that un-highted scoring had immaterial effects upon reliability as shown if the results. of the results.

Use of the Scoring Keys .- In scoring the Inventory, find Use of the Scoring Keys.—In scoring the Inventory, first lay the transparent key for page one, factor S, upon the culumn of responses. If the top and bottom of the key coincide with the top and bottom of the test booklet, with the three columns of 1's in line with the three responses 'Yes, ?, No," then count the number of 1's that fall upon encircled responses. Repeat similarly for other factors, and other pages, adding one or two points for each significant response, as the key is marked. The score in each factor is the total number of points.

Reliability of the Scores.—The reliability of scoring an in-ventory of this type can only be estimated. A combination of alternate sixths of the items into two pools of approximately equal lists and a use of the Spearman-Brown formain gave estimated reliabilities of .92, .89, .91, .91, and .89 for factors 3, T, D, C, and R, respectively in a population of 200 (100 mma-and 100 women) selected at random from the criterion group-in an entiroly new group of 100 (50 men and 50 women) simi-larly estimated reliabilities were: .90, .84, .94, .88, and .90, respectively. Corresponding reliabilities in the same sample by the Kuder-Richardson' method were .92, .85, .90, .87, and .81.

Correlations Among the Scores .- Intercorrelations among the scoring keys occur, as is usually true with inventories of this the scoring keys occur, as is usually true with inventories of this type. The factorial studies revealed some actual correlations arong factors S, T, and D, ranging as high as .50. A small cor-relation between factors D and R was also indicated. Frevious experience has shown that the currelations of the five scorings of this Inventory new somewhat from one nonvisition to mether of this Inventory vary somewhat from one population to another, but the following table is typical (the scores for R were reversed to yield consistency in algebraic sign):

	s	T	D	C
т	.15			
D	.49	.15		
c	.33	.14	.85	
R	.54	.21	.36	.02

Validity of the Scores.—The determination of validities of scores of personality tests is a most difficult problem. Good a situation realistically. There are two important varieties of validity jata for any test. One pertains to its value as a measur-ing instrument of certain psychological variables, in this instance the purported factors. The other pertains to its value for pre-dicting human success or failure in one phase of living or an-other. Validity figures of the former type have more of ar

academic interest, though confidence in the test as such will depend upon them. Validity figures of the latter type will be derived from widely scattered sources, will have practical usefulness, and will be subject to interpretation and evaluation in the light of practical considerations apart from the test itself.

When rating-scale data (ratings by self and by others) were used as criteria, the validities of the scores for S, D, and R were of the order of .6, .5, and .5, respectively.⁵ Estimates of the reliabilities of ratings by others based upon a very limited sample were of the order .7, .7, and .5, respectively. Ratings for T and C factors proved to be too questionable to use as criteria.

The Inventory has been used in a wide variety of practical situations, chiefly in connection with counseling services in the following situations: high school and college personnel; penal institutions; family relations; hospitals for the insane; speech clinics; industrial plants; retail stores; in addition, in connection with a variety of research activities. Many expressions concerning the usefulness of the scores have been made in private communications. Few publications have presented data that can be quoted to indicate validity for one purpose or another."

Norms.—In this revised Manual a new policy of presenting norms based upon recent statistical developments will be followed.⁸ A common C-scale of 11 units, and corresponding centile (generally redundantly called "percentile") levels are given. Another change which should be noted is that the high ends of the scale (C-scale scores of 10 and centiles of 99) universally stand for the socially approved ends of the personality dimensions extraversion on the one hand and freedom from emotionality on the other. The raw scoring scales were unchanged in order to avoid the production of new keys and the confusions that might result therefrom. The C-scale system normalizes all distributions. In view of no information to the contrary regarding the true form of the distributions, this arbitrary decision seems desirable for practical reasons. The percentages of the norm groups (after smoothing of cumulative frequency distributions) which fall within each unit are as follows: 10, 1%; 9, 3%; 8, 7%; 7, 12%; 6, 17%; 5, 20%; 4, 17%; 3, 12%; 2, 7%; 1, 3%; 0, 1%. The norm tables are used by locating the obtained raw score in its appropriate group and then reading the corresponding C-score. The corresponding centile position may also be read but in most cases it lies within a given range. A single centile value can be obtained by interpolation.

Three sets of norms representing different general age groups are given. It has been found by experience that different college groups yield results comparable to those provided in the first form of this Manual so they are repeated here in revised form. The three groups exhibit certain interesting trends related to age, most outstanding of which is a decreasing rhathymia with increasing age. When the Inventory is administered to prospective employees or to other groups in which there is motivation to make the best possible appearance, the norms given will not apply too well. Such individuals will appear in ranked order, however, so that their status relative to their group will be known. The ability of individuals to outguess the scoring key is often overrated but should always be taken into consideration as a possibility where personal motives are suspected as a factor.

Interpretation of Scores.—While high scales scores are generally regarded as the more socially desirable in these traits, exceptionally high scores may be indications of maladjustment in some kinds of situations. A person can be too socially extraverted, too extraverted in terms of thinking habits, too optimistic, too temperate in mood, or too happy-go-lucky for his own good or for the comfort of others around him, depending upon the circumstances. Scores of 10, and sometimes of 9 should therefore receive some concern. In general, scores in the range from 5 to 7 are probably indicative of best mental health and ease. Scores of 2 and 3 at the other ends of the scales probably indicate need for corrective measures of some kind, depending upon the circumstances, and scores of 1 and 0 may indicate something bordering on the pathological. The pathological extreme of introversion has been regarded as the schizoid disposition which borders on schizophrenia. The pathological extreme of emotionality borders on the manic-depressive psychosis. It should be emphasized however, that low scores on any of the five factors are insufficient in themselves to justify any type of pathological diagnosis. A use of The Guilford-Martin Temperament Profile Chart is connection with the interpretation of scores is recommended. Its norms are based upon a composite of those presented in this Manual plus others.

C-Score	S	T	D	C	R	Centiles
10	0-2	0-8	0-5	0-8	69+	99
9	3-5	9-12	6-8	9-11	64-68	96-98
8	6-9	13-17	9-10	12-15	60-63	89-95
7	10-13	18-22	11-15	16-29	54-59	77-88
6	14-18	23-27	16-20	21-26	49-53	60-76
5	19-23	28-32	21-26	27-33	43-48	40-59
4	24-28	33-37	27-32	34-39	37-42	23-39
3	29-33	38-42	33-38	40-45	30-36	11-22
2	34-38	43-46	39-42	46-50	24-29	4-10
1	39-43	47-51	43-49	51-55	16-23	1-3
0	44+	52+	50+	56+	0-15	0

Norms	based upon	388	University	of	Nebraska	Studen
-------	------------	-----	------------	----	----------	--------

C-Score	S	T	D	C	R	Centiles
10	0-1 2-3	0-9 10-15	0-1 2-4	0-5	75+	99 96-98
9876	4-7 8-9 10-13	16-21 22-26 27-32	5-8 9-12 13-17	10-15 16-20 21-24	61-65 53-60 46-52	89-95 77-88 60-76
5	14-19	33-38	18-23	25-31	38-45	40-59
4 3 2 1 0	20-26 27-34 35-57 38-40 41+	89-44 45-48 49-63 54-57 58+	24-31 32-38 39-44 45-49 50+	32-38 39-46 47-53 54-59 60+	30-37 23-29 15-22 10-14 0-9	23-39 11-22 4-10 1-3 0

C-Score	S	Т	D	C	R	Centile
10	0	0-17	0-4	0-4	63+	99
9	1-3	18-21	5-8	5-7	56-62	96-98
9 8 7	4-7	22-25	9-13	8-11	48-55	89-95
7	8-12	26-31	14-19	12-16	42-47	77-88
6	13-19	32-37	20-26	17-22	37-41	60-76
5	20-25	38-42	27-30	23-30	32-36	40-59
4	26-30	43-46	81-34	81-87	25-31	23-39
8	31-35	47-51	35-41	38-45	20-24	11-22
2	36-39	52-55	42-49	46-52	16-19	4-10
ī	40-44	56-59	50-53	53-59	14-15	1-3
õ	45+	60+	54+	60+	0-13	0

 See particularly J. P. Guilford and R. B. Guilford, Personality Factors, D. R. T. and A. J. Abnor. & Soc. Psychol., 1939, 34, 21-36.

 G. F. Kuder and M. W. Richardson. The Theory of the Estimation of Test Reliability, Psychometrika, 1937, 2, 151-160.

 J. P. Guilford and H. Martin. Age Differences and Sex Differences in Same Intro vertice and Emotional Traits, J. Gen. Psychol., 1944, 31, 219-219.

D. L. Steinberg and M. P. Wittmer, Etiologic Factors in the Adjustment of Men in the Armed Forces, J. War Med., 1943, 4, 129-139.

 J. P. Guilford. Fundamental Statistics in Psychology and Education, New York: McGraw-Hill Book Co., Inc., 1942, Ch. VII.

83.	In so
84.	Do y
85.	Do y Do y Do y
86.	Do y
	"runi
87.	Are the l
88.	Are
~~	the I
89.	Do y
90.	Are Are
91.	Are
92.	Do y
93.	Do y
94.	Do y
95.	Does
96.	Are
111	Do y
98.	Do y
99.	Do y
100.	Are
	class
101.	Doy
102.	Are
103.	Are
	anya
104.	Are Do y
105.	Dog
106.	Are
107.	Dog
	plete
108.	Can
109.	Are
110.	Do 1
111.	Do
112.	War
113.	Do j Do j Do j
114.	Day
114.	Dog
116.	Doj
	Are Hav
117.	
118.	Do 1
119.	Dog
100	form
120.	Are
121.	Are
122.	it wo Are
122.	Are
123.	Dog
124.	Dog
125.	mine Do y
125.	Whe
120.	
	Are

PAGE 3

mphasized						
insufficient gnosis. A	83. In social conversations, are you usually a listener rather than a talker?	Yes	2	No	83	
art in con-	at the you frequently feel that people around you are talking about you?	Yes	2	No	84	
ted in this	at Do you like to have time to be alone with your thoughts?	Yes	?	No	85	;
	as now find it difficult to go to sleep at night because experiences of the day keep					
	"manning through your head"	Yes	?	No	86	
	any are you inclined to take your work casually, that is, as a matter of course?	Yes	?	No	87	1
idents	a security inclined to avoid meeting certain people on the street (bill collectors and					
,	t the not included)?	Yes	?	No	8	2001-0
Centiles 99	and it easy as a rule to make new acquaintances?	Yes	2.4	No	81	10000
96-98	inclined to be quick and sure in your actions?	I es	1	No	9	and the star
89-95 77-88	they have being set-conscious?	Ies	21 S S	OF	1000	
60-76	the star feel restless while listening to g lecture?	I es	-	NO	9	2
40-59	helieve that people often misunderstand what you say	Ies	1946	NO		13 14
23-39	the second standships mostly to members of your own sex!		19603	No	0	35
11-22 4-10	ind another body so you lose track of what you are doing f		1700110	140	S. Children	6
1-3	ti to avaitament?		10.000	110	0	37
0	the line to talk about yourself even to close mends!	*** * ****	12 10 10		10 enge	98
C. C. Standard	the her concentrative in the matter of dress and personal appeulative		1000		90.9523	99
EVEN CON	the to diagnus the more serious questions of lite with your menus	Ies	1	140		1.1.1
itudents	the internet to represent during around allow				23 5 6 6	00
Centiles	100. Are you inclined to keep your opinions to yourself during group and class discussions)?	Ves	?	No		
99 96-98	class discussions)?	Yes	?	Ne	, 1	02
89-95	the line has introcroating that is to analyze yoursent man	Park a		12		
77-88 60-76	103. Are there times when you seek to be dione and you cannot bear and you	Yes	?	No	b 1	03
40-59	anyone?	Yes	7	No	o 1	
23-39	104 Are you much concerned over the mordis of otherst	Yes	?	No	o 1	05
11-22	105. Do you frequently take time out just to meditate about mings in general	Yes	?	N	0 1	06
4-10 1-3	105. Do you frequently take time out just to meditate about things in general. 106. Are you usually unconcerned about the future?					
0	107 Do you usually become so absorbed in the second		1000	N		
ABS SELLING	pletely forget yourself?	Yes	?	N	0 1	108
	108. Can you relax yourself easily when sitting downline	Yes	1	N	0 1	109
1.1.1.1.1.1.1	109. Are you usually a "good mixer"?	Yes	?	N	0	110
reles, Calif.)	110 Do you usually prefer a "slapstick" comedy to a serious ardind at the reverse you are tired?	Yes	1 7	? N	io i	111
Centiles	111 Do you frequently find it dilicuit to go to and	Ies	1.040	STORE A	100.002	112
+ 99 95-98	 111. Do you frequently find it difficult to go to sleep at night, even utdig for an intervention of the state of	Yes	1	? N	lo	113
89-95	112 De vous svort take vous work as if it were a matter of lite or deduir	Ye	. 1	? N	lo	114
77-88 60-76	113. Do you ever take you: work as if it were a matter of life or dealing	Ye	5	7 N	lo	115
40-59	114. Do you often "have the time of your life" at social affairs?	Ye	5	1 9		115
23-39	 114. Do you often introduce a great deal more happiness in the world than miser primary interval. 115. Do you think there is a great deal more happiness in the world than miser primary interval. 116. Are you frequently "lost in thought"?	Ye	5	1 ?	Io	117
11-22	110. Are you requently lost in dress over your worries?	Ye	s	? !	lo	118
4-10 1-3	117. Have you often lost sleep over your worries? 118. Do you like to mix socially with people?					1
0	110. Do you like to mix socially in a cardom youth are generally superior to any	Ye	5	2 1	No	119
Compress 197	 119. Do you believe that the morals of modern your failures long after they are past? 120. Are you inclined to think over your failures long after they are past? 121. Are you inclined to think over your mind seems to work very slowly and other times when 	Ye	S	2 1	No	120
	120 Are your inclined to think over your failures long after they are post-				NT-	121
	120. Are you inclined to think over your failures long after they are particulated in the second sec	Ye	S	100000	No	122
1	 120. Are you inclined to think over your ideated work very slowly and other times when 121. Are there times when your mind seems to work very slowly and other times when 122. Are there times when your mind seems to work very slowly and other times when 123. Are there times when your mind seems to work very slowly and other times when 124. Are there times when your mind seems to work very slowly and other times when 125. Are there times when your mind seems to work very slowly and other times when 126. Are there times when your mind seems to work very slowly and other times when 	Ye	S	20.027	No No	123
actors, D, R, T	 121. Are there times when your mind seems to work it works very rapidly? 122. Are you inclined to avoid all people whenever possible? 123. Provide the provided of the people whenever possible? 124. Are you inclined to avoid all people whenever possible? 125. Are you inclined to avoid all people whenever possible? 126. Are you inclined to avoid all people whenever possible? 127. Are you inclined to avoid all people whenever possible? 128. Are you inclined to avoid all people whenever possible? 129. Are you inclined to avoid all people whenever possible? 120. Are you inclined to avoid all people whenever possible? 	Ye	?S	1	NO	100
ion of Test Rel		our		2	No	124
a in Some Inter	124 Do you usually feel disappointments so keenly that you cannot set	II	00	22,212	No	125
	 124. Do you usually feel disappointments so keenly that you chind see mind? 125. Do you derive more real satisfaction from social activities than from anything else 125. Do you derive more real satisfaction from social activities than from anything else 126. When are the consider your future, does it usually seem very optimistic? 	171	00	351229	No	126
justment of M	1 125. Do you derive more real satisfaction from social activities every optimistic?	v	00	10125.0	No	127
tion, Naw Yor	mind? 125. Do you derive more real satisfaction from social activities than from anyming and 126. When you stop to consider your future, does it usually seem very optimistic? 127. Are you sometimes so "blue" that life seems hardly worth living?	I		Sca		
	127. Are you sometimes so "blue" that life seems hardly works the					
					16. El	

THE GUILFORD-MARTIN PERSONNEL INVENTORY I.

Nomin	Date.	-	Luisna	
AILC	the most of the part of the second state and of the analysis has reached and all states and second the	A		
	Sex		CA .	
A	Raw Scores: 0 Ag Co	日前		
	C-Scores:	AND IN A	12	
	A store store and a store and a store and the store of the	ø e	ither	
"Yes," been, only y	IRECTIONS: Below you will find some questions which are to be answered by encirclin """," or "No." Read each question in turn, think what your opinion or your behavior has and draw a circle around the answer that best describes your behavior or opinion. Encircle when you are unable to decide between the "Yos" and "No." BE SURE TO ANSWER TION. There is no right answer to any of these questions except the answer that tells how y about it.	the	ERY	
UI LCC.	the second and the second s			
	a to a first the merced in one kind of job than he	·沃普 · · · · · ·		
1.	Do you believe that each person is better fitted to succeed in one kind of job than he is in most other jobs?	No	100	1
	is in most other jobs?	No	- CA	2
2.	to make a lot of money at it?			3
3	to make a lot of money at it?			
1.1	Do you believe that almost any kind of person			4
	ich if he tries hard enought	H	0	5
5.	job if he tries hard enough?	N	0	F.
		-12		
7	Deep it seem to you that human penge hardy of the	N	0	7
	mistakes twice i	N	10	8
8.	Do you feel that there are too many useless laws which hamper an and the second	N	Service and	9
	freedom f the miglet" type of man f	1 1	lo	10
9.	Do you lack patience with the "shrinking voice" system of the travef			
10.	Are you inclined to be thinking about yourself much of the that and the trouble Do you think that most people who help others secretly dislike going to the trouble Tes	1 1	NO I	п
	Do you think that most people and to do soft	• 1	No	12
12	Do you feel disgusted when someone escapes paying	1 1	No	13
	Do you feel disgusted when some some some some technicality ?	1 1	No	14
13	some technicality?	100.00	No	15
14	when you are criticare" mont	1	No	16
10	bo you despise a year markmen nowadays do a job as it show rerfectly		No	17
10	Does it bother you a lot to see someone else bungling a job that you whom P	など		
	well how to manage !Yes	1	No	18
1	 Does it bother you a lot to see someone case of the dirty work, leaving well how to manage?	1	No	19
10	 S. Have you found that, in general, porter is the provided of a thing?	1	No	20
1	9. Are you approved when people ten your thoughts f	1	No	21 22
	b. Do you get upset tatter is interest someone is reading ?"		No	All
4	 Are you ever bothered by the idea Cat someone is reasoning from the second secon	1	No	23
1 .	2. Do you have days in do you think the head of a lirm shows the second state of the s	1	No	24
1	 Generally speaking, do you think the head of a num. Generally speaking, do you think the head of a num. Yes ranks, that is, having worked his way up in the business?			
1-2	 3. Generally speaking, do you have been been been been been been been be	14.0		
	M. Are you melined to worry too long over and Copyright 1943 by Sheridan Supply Co., Beverly Hills, Calif. (Not to be reproduced in whole or in part without written permission of the copyright owner.)			
	What to be reproduced in whole or in part without written p			

Page 4

128.	Do you ever take the initiative to enliven a dull party?	Yes	?	No	128			eГ			
129.	being forced to be on the unpopular side while playing games) 7	Yes	,	No		1		Score	0	0.	
130.	Do you like to speak in public?	Yea	2		129	1		3	-		
131.	Do you feel physically inferior to your associates?	Yes		-	180	h	- 1	-			1000
132.	Would you rather be a dress designer than a forest ranger?	Yes	1		182	1			1.		
13 %.	Are you able to come back to a state of calm readily after an exciting situation is						1.1.1	3	97+	00	
	past? Do you like to bear responsibilities alone?	Yes	1		133			0	•	7 00	
134.	a state to a state of the solid of the man and the state of the state	Yes	1		134						
135.	the second of an evel do non nonally take an estimation	res	1	No	135	1	i				
136.	part in) elning out if needed?	Yes		N					+		
197	when you because apery, do you get over it rather quickly when the cause for anger			No	136			BY	56-1	55	
101.	is past?	Yes	1	No	137		1				
138.	Do you tend to prefer quiet rather than exciting amusements?	Yes	1	10223	138		1				
139.	Do you often wish your appearance were different than it is?	Yes	?	100000	139			1999			
140.	When you find that a piece of merchandise you have bought is defective, do you find it								+ 5	00	
1997	easy to demand an exchange or refund?	Yes	7		140			0	r	~ 0	
141.	Can you stick to a tiresome task for a long time without being prodded or encouraged?	Yes	1		141	1					
142.	Does it make you jittery to handle a loaded gun? Are you frequently afraid that other people will not like you?	Yes	1		142	1	i	-			
143.			1	1000	148			R.S.	+		
144.	Have you ever been regarded as a daredevil?		1	2020110	144			z	÷	9 9	
145.	When in a restaurant you are served stale or inferior food, do you usually make a	Ies	1	No	145				2,496,69	40	
146.	vigorous protest about it?	Yes	•	No	146	1 1					
147	Does your mind often wander so badly that you lose track of what you are doing?	Yes	;	10000	140		1				
148.	Does it annoy you to see a person biting his fingernails?		;	120798	148				#	~ 10	
149.	Are you easily discouraged when things become difficult?		,	1000	149			- 1	4	44	
150.		1.1	도문생		*13		111				
	go on with your regular activities?	Yes	1	No	150	i	1				
151.	Are you inclined to rush from one activity to another without pausing for rest?	Yes	?	No	151			1	10- + N	51 16 24	R
152.	Do you always stand up for your rights when they are endangered?	Yes	1	No	152			X	30-1	3	62
153.	Do your friends seem to have a better time than you do?	Yes	1	No	152		1.11			and the set	
154.	Does the sight of pus disgust you?	Yes	1	No	164	l i					
155.	Do you sometimes wish that you were more attractive than you are?	Yes	1	No	155		11		+		
156.	Do you ever experience a feeling of vague uneasiness without knowing the reasons?		1	No	156	1		<	35-1	33	
157.	Do you have any pervous habits like twitching your face, neck, or shoulders?	Yes	1	No	157	1					
158.	Are you disgusted at the sight of an unshaven man?	Yes	1	No	158		1				
159.	Are you able to play your best in a game or contest against an opponent who is much									Stor K. M	
	superior to you?	Yes	1	No	159			0	3	នន	
160.			1	No	160			0	R	nn	
161.			1	No	161				A personal		
162.	the second		1	No No	163 163	i i		H			
164.			-	12220	164		5.0	-	+	41.01 × 40	
165.	and and an an and an	Yes		No	165	1 1		~	ģ	22	
166.	the set of the set of the set of a set coment (Tes	2	No	166				Particular Me	and a start	
	Are you often so much "on the go" that sooner or later you wear yourself out?	Tes	24	NO	167	1 1					
168.	Does it annoy you to see a person clean his fingernalis in public?	Yes		No	168	1 1	1			a hadden	
	Are there times when you feel as if your nerves were raw or "on edge"?	ICS	1	1000000	169	1 1					
170.	Do people usually give you credit for having good judgment?	Ves		No	170	1		U			
171.	Do you often feel bubbling over with excess energy?	Ves		No	171		2015			Ch. Martin	
	Are you easily disturbed by distracting stimuli when doing mental work?	Ves	-	No	172	i i	i				
173.	Do you often feel reluctant to meet the most important person at a party or reception?	Yes		No	173			100		and March	
174.	Do other people regard you as a lively individual?			No	174		100		0 -	01 19	
175.	Do you have a strong dread of fire?	Yes		No	175		1.13				S
176.	Do you often feel that few obstacles can stand in the man of your seaching your final	Yes	1.114			1		11010			1
	Goomer stressessessessessessessessessessesses	Yes	?	No	176						
177.	As a child, did you often naturally fall into positions of leadership?	Yes	1	No	177				00	- 4	1000
178.	bo you ever have the feeling that there is nothing to live for?	Yes	1	No	178			-	-		
179.	Do you often and that you cannot make up your mind until the time for action is		E.S.		170	1	1	1.0.1			
100		Yes	?	No	179			See. S			
180.	bo you prefer going to a dance rather than to a prize fight?	Yes	?	No	180				C. St. Land M.	Service Const	194
181.	Lo you seek to avoid all troublesome situations?	Yes	1	No	181			S	0	- m	177
AUG.	bo you often snow yourself up to your own disadvantage?	Yes	1	No	182			1999			
183.	bo you become upset rather easily?	Yes	1	No	183 184		1				
185.	and you wanting to take a chance alone in a situation where the outcome is doubtful?	Yes	1	NO	185			2			
	fou neve any nestilation about calling down a nonnen whe down not slow fair?	Yes	T	No No	186		ö	C-Scon	2	0	
111	Do you resent being "kidded" about your peculiarities?	Yes	Ĩ	NO		Raw	C-Score	3	and the set		See.
	BE SURE YOU HAVE ANSWEPED EVERY QUESTION						0	1			

		100			HAVE ANSWERED EVERY OUESTION
	AOT	NO	1	Yos	rour pccullarities?
	-	INC		Yes	a who does not pl
	400	NO	-	Yes	tion where the outcome i
	404	- TAC			
	183	25			own disadvantage7,
	100	20	0 -		struations7
	191	20	• •		than to a prize-fight?
	180	NO	• •		
	1 70	13	1		take up your mind until the time for action is
	178	No	-4 -		e is nothing to live for?
-	177	No	• •	Yes	
-	176	No	-	VAS	way of your reacting your an
					an signal in the way of some mashing worry final
	175	No	a -	IUS	
-	174	N'S	• •		i most important person at a party or reception i
	173	No	•••	100	s summin when doing mental works of searching
1	172	No	••	100	attmult when doing montal work?
14	171	3	• •	1 100	wing good juginent:
1	170	No	• •	Va.	or neives were raw or on euge
1	160	No		100	nis nngernaus in puone:
1	180	-		100	it sound of later you wear yourself out
14	167	NO	•	IEN	lis at which you are outstanding
100	180	No	• •	4 4	ict as a salesman) [
-	101	NO	• •	Tes	than the Average person in getting things done:
	163	NO	•	108	
	102	NO		Yes	ally stronger than you are?
	101	NO	• •	INS	d in group activities?
200	101	NO	• -	Ins	nerves. T
1	103	NO	• •	1 1	
100	120	5	4	1	ne or contest against an opponent who is much
100	158		1	Yes	tshaven man?
1000	167		• -	Tes	itching your face, neck, or shoulders
-	156	1	• -	Yes	hou
-	155	No	-	Yes	active than y
-	154		-	Yes	
-	153		-	Yes	me than you do?
	152	83	-	Yes	••••••
100	151	No	-	Yec	or
0	150		-	Yes	that you
	RET				
DATE	148	NO	• •	T Da	
Contraction of the local division of the loc	147		• •	Tes	hat you loze track of what you are doing
10	146		• •	Tes	
				1	od, do you usually mak
	145		-	Yes	
	144	No		Yes	
-	143		-	Yes	
	110		•	Yes	Hor and Areas and Areas a second and and and and and and and and and a
INC	140	e vo		Yos	the sthest hains modded or anonitaged?
				4	lae you have bought is defective, do you find it
	139		1	Yes	different than it is?
11-11	138	No	-	Yes	exciting amusements?
	137		-	Yes	al if think durant and and and and and
	136		1		- to eather outch's when the cause for anger
			•	Ym	to you usually take an acti
	185		2	Tes	a me?
1	134		-	Yes	
-	199	No	-	Yes	of calm readily alter an exciting situation to
	132		1	Xes	an a forest ranger?
6.7	131	No		YON	sociates?
	130		-	Yes	
	129	No	1	Yes	e while plowing games) i
4.1	128	NO		1.02	du
2000	2			1	1.2.51
	Statistics of the local division of the loca				

cores														-
icore	s	T	D	c	R	G	•	M	1	N	0	Ag	Co	C-Sco
10	0	0 10	0 1	0 5	70+	24	35+	30+	48+	41+	71+	56+	97+	10
9	1 3	11 14	2 5	6 9	69 64	23 22	34 33	29 28	47 45	40 38	70 68	55 53	96 89	9
8	4	15 19	6 9	10 13	63* 58	21 20	32 30	27 26	44 43	37 35	67 62	52 47	88 81	8
7	7 11	20 25	10 13	14 18	57 51	19 17	29 26	25 24	42 40	34 32	61 55	46 42	30 72	7
6	12 17	26 31	?4 18	19 24	50 44	16 14	25 23	23 20	39 36	31 28	54 49	41 37	71 65	6
5	18 23	32 37	19 25	25 31	43 38	13	22 19	19 18	35 33	27 24	48 42	36 32	64 54	5
4	24 28	38 42	26 31	32 38	37 30	11 9	18 15	17 13	32 28	23 20	41 36	31 27	53 45	4
3	29 33	43 47	32 38	39 46	29 23	8 7	14 12	12 11	27 22	19 16	35 28	26 22	44 35	3
2	34 39	48 53	39 45	47 52	22 16	6 5	11 8	10 8	21 15	15 11	27 20	21 17	34 27	2
1	40 46	54 61	46 53	53 58	15 10	43	7 5	7 6	14 11	10 7	19 ?3	16 12	26	1
0	47+	52-(54-+-	59+	9	2	4	5 0	10 0	6 0	12 0	11 0	19 0	0

THE GUILFORD-MARTIN TEMPERAMENT PROFILE CHART

How to Use the Chart

For each trait indicated by the letter at the top of the column, find the class interval below in which the raw score for that particular trait fails and encircle in colored pencil or in ink the pair of scores representing that class interval. When all the traits are designated on the profile in this way, a live should be drawn connecting the circles for each neighboring pair of circles.

The C-scores (scaled scores) are indicated at the extreme left and right of the chart in an 11-point scale, 0 representing the lowert 1% of the 500 cases used in deriving these norms, I the nuxt 3%, 2 the next 7%, 3 the next 12%, 4 the next 17%, 5 (middle C-score) 20% of the cases, 6 the next 17%, 7 the next 12%, 8 the next 7%, 9 the next 3%, and 10 the highest 1% of the casus. Because the distribution of scores for trait M is bimodel, C-score 4 on the chart fr trait M represents 20% of the cases, C-score 5, 14%, and C-score 6, 20%.

Interpretation of the Scores on the 13 Temperament Traits

From Guilford's Inventory of Factors STDCR

- S -- Social Introversion-Extraversion .-- A high C-score indicates sociability, a tendency to seek social contacts and to enjoy the company of others. A low C-score indicates shyness, a tendency to withdraw from social situations and to be seclusive. A high C-score is more desirable for mental health than is a low C-score. A very low C-score on S indicates a need for guidance directed toward increased social narticipation.
- T Thinking Introversion-Sxtraversion.—A high C-score indicates a lack of introspectiveness and an extravertive orientation of the thinking processes. A low C-score indicates an inclination to meditative thinking, philosophizing, analyzing one's self and others, and an introspective disposition. The middle range of C-score is more desirable for mental health than either extreme on trait T. Cach extreme, however, may have its value for certain types of occupation.
- D Depression A Ligh C-score indicates freedom from depression, a cheerful, optimistic disposition. A low C-score indicates a chronic by depressed mood racluding feelings of unworthiness and guilt. The higher the C-score on trait D, the better is likely to be the emotional adjustment of the individual.
- C -- Cycloid Disposition -- A high C-score indicates stable emotional reactions and moods, and freedom from cycluid tendencies. A low C-score means the presence of cycloid tandeocies as shown in strong emutional reactions, fluctuations in mood, and a disposition toward flightiness and instability. The higher the 3-score on trait C, the better will be the emotional adjustment of the individual, except that scores that are too high may inficate a cole les, inert individual.
- R -- Rhathymia.--A high C-score indicates a happy-go-lucky or carefree disposition, liveliness, and impulsiveness. A low C-score indicates an inhibited dis-position and an overcontrol of the impulses. Both extremes of C-scores may represent psychological maladjustments and a C-score in the middle range is desirable for mental becith.

from the Guilford-Martin Inventory of Factors G A M I N

- G General Activity.- A higt C-score indicates a tendency to engage in vigorous overt action. A low C-score indicates a tendency to inertness and a disinclination for motor activity. An extremely high C-score on trait G may represent a manic tendency while as extremely low C-score may be an indication of a hypothyroid to dition or othet causes of inactivity. Thus, for good mental health a C-score on G in the middle range is usually most desirable.
- A -- Ascendance-Submission .--- A high C-score indicates social leadership and a low C-score social passiveness. The C-score of a person on trait A must be interpreted in the light of his other characteristics of temperament as shown on the profile chart, and ne general rule can be set forth as to what C-scores on trait A are most desirable for montal health. However, there is emphasis in our culture of the general desirability of a high C-score on trait A. Females tend to have distinctly lower C-scores on A than do males.
- M -- Nasculinity-Femininity, -- A high C-score on this trait indicates masculinity of emotional and temperamental make-up and a low C-score indicate, funininity. The C-scores of the majority of males are above 5 and the majority of females have C-scores below 5. Mates whose C-scores are very low are sometimes found either to lack their full quota of male hurmones or to have an oversupply of female horm ves.
- 1 -- Inferiority Feelings. -- A high C-score indicates self-confidence and a lack of inferiority feelings. A low C-score indicates a lack or confidence, underevaluation of one's self, and feelings of inadequacy and inferiority. The higher the C-score on trait I, the better for mental health, with the vicepilon of extremely high cases in which clinical investigation may reveal a superiority compensation for hidden interiority feelings. Many psychemeurotics have very low C-scores on trail 1.
- N -- Nervousness -- A high C-score indicates a tendency to be calm, unruffled, and relaxed; a low C-score indicates jumpiness, litteriness, and a tendency to be easily distracted, irritated, and annoyed. The ligher the C-score on troll N, the better for mental health unless there are clinical indications that an overly sluggish and torpid condition is the basis for an extremely high C-score. Extremely low C-scores in some cases may involve a lack of calcium in the blood. In many cases, a montal conflict may be the basis for the emotional tansion expressed in jitteriness and irritability.

From the Guilford-Martin Personnel Investory I

- 0 Objectivity .- A log C-score on Wis trait indicates a tendency to view one's self and surmundings objectively and dispassionately. A low C-scrw indicates a tendency to take everything personally and subjectively and to be hypervensitive. The higher the C-score on trait O, the better for mental health. Pathelogical cases may develop paranoid ideas of reference and delusions of persecution.
- Cooperativeness .-- A high C-source indicates a willingness to accept things and people as they are and a generally tolerant attitude. A low C-score indicates an overcriticalness of pecale and things and an intolerant cititude. The higher the C-score on trait Co, the better for mental health unless the C-score on G or clinical signs in dicate a torpid and all intolerant contract. The basis of the lack of criticalness. Ovorcriticalness is often a compensation Cofor hidden forlings of inedequacy. Pathological cases may exhibit a paranoid projection of their conflicts and impulses.
- Ag--Agreeableness. -- A high C-sc ve indicates an agreeable lack of musirelsomeness and a lack of domineering qualities. A low C-score indicates a beligerent, domineering s'titude and an cyerreadiness to fight over trifles. Very low scores on trait Ag indicate an extreme craving for superiority as an red in itself developed as a compensation for some chronic frustration and in pathological cases may lead to paranoid delusions of grandeur. It is possible that a sadistic component may occur in some of the pathological cases. Further investigation should be made of the psychological structure of extremely low C-scores on traits Q, Co, and Ag, as the paranoid area of temperament which they cover is predisposing toward troublemaking behavior in industry. marriage, and other social situations.

. Page 8

	and the state of the	200000	
9. Do you feel that many young people get ahead today because they have "pull"1 Yes 1 M	le	69	
		70	
		71 72	
12. Do a lot of people you have known tend to form "enques" of desend to defend	1	SIL	
 Do a lot of people you have known tend to form chiques of closed groups	No	73	
a 1 that managed in it wont a thing done right you must do it voursell i. I the	No	74	
		192	
75. Can a person get ahead by his own entries if he does not not out for ministry. Yes 1 every turn 1	NO	75 76	
		10	
77 Do you think your generation has as many opportunities for success an your yes 1	No	77	
generation had	No	78	
78. Do other people pay more attention to your comings and goings that more showing the second dull do you feel the urge to stir up some excitement f	No	79	
	No	80	
so. Do you think the concentration was a second to be a second to		81	
respects ?		1984	
99 Have you ever found out that a person who was support	No	82	
know as much as you did about solution and mould like to see behind prison barst. Yes	No	83	
83. Is there anyone you know personally whom you would nike to sour manner of living if 84. Are there important changes you would make immediately in your manner of living if 95. The there important changes you would make immediately in your manner of living if	No	84	
34. Are there important changes you would make immediately in your manner of items. Yes you could have a substantial increase in income?	No	85	6646919
you could have a substantial increase in income?	in I		
The most gituations is it all right to concern the	No	86	6
to a friend T tod having friends or members of your family give you	No	87	7
87. Have you very much resented having mends of measure they are deserved 1	No	117712	10000
	No	8	9
OG TA MAATIO TEALING UNAN ANTOTING INLUNOU DEAL IS ANTOTING INLUNOU DEAL IS ANTOTING INLUNOU DEAL IS ANTOTING INLUNOU DEAL IS ANTONIO INLINOU DEAL IS ANTONIO DEAL IS	No	, 9	0
 85. Are you as queuently talk about you behind your back	10.01	1	1
 90. Is it almost unbearable for you to see a close friend or relative suitering the sector of the sector	No	SPECIAL PROPERTY	91 92
nimself once in a white the food!' individuals personally !	No		93
92. Have you known many "two-lac-a" inclusion of the people do as you want 93. Can most people be trusted completely f	NY CL	- 4	
93. Can most people be truschle satisfaction from making other people do as you	I N	0 1	94
94. Do you derive considerable saturation and the source of the source o			95
i i il mablic office noivers source	t N		
 95. Do you believe that all public once and more the management of private interests first?	1 N	0	96
interests first	1 N	0	97
pushtes outly hurt			98
97. Are your feelings rather easily leve that people use a veneer of pointenant	213/200	lo lo	99
no what is usually "cutthroat" competition the blame when this is go wrong its		V	T
 98. Generally speeking, do you believe that perperture at the perperture of the blame when things go wrong?Yes up what is usually "cuthroat" competition?Yes 99. Do you usually get more than your share of the blame when things go wrong?Yes 90. Are there many kinds of work that you would not consider doing because they are Yes 100. Are there many kinds of work that you would not consider doing the they are Yes 	1 1	No 1	100
100. Are there many kinds of work that you would have in order to gain_	tine i		101
vencati journe exaggerate their	122.00.000	Sector Sector	101
101. Do you think that a lot of people care in the some reason f	0.00332-0		103
shing selfish, and with the better of you it it	and the second	1.	100
103. Have you often felt that cer. Il persons are secretly interesting to an easy one that is	1	No	104
102. Do people ever accuse you of being solarly secretly trying to get the outer on that is 103. Have you often felt that cer, in persons are secretly trying to get the outer on that is 104. Would you prefer a hard job that is very interesting to an easy one that			105
money of portes and money of portes	1	No	105
 104. Would you prefer a hard job that is uninteresting?		No	106
	2000-23	No	107
 106. Have you frequently become involved in commentation of the second second			10
members of your family?	1	No	10
108. If you could have your way about it would you and			
nature f			

Page 4

	· · ·		in the	
109.	Are many of your supposed friends really insincere?		No	109
			No	110
111.	Does everything that happens seem to have a relationship to your own into yes			
112.	experience?		No	
			No	
			No	114
115.	When criminals make a daring escape from prison do you sometime		No No	2010/00/00/00
116.			No	
			110	ш
118.	Do you often feel that you are left out of things, perhaps uninteresting yes	1	No	118
119.	activities?	1	No No	All and the
120.	vise to their intentions f		110	140
121.	Does the United States Government one cital property lying around as much to blame Is the person who carelessly leaves valuable property lying around as much to blame as the person who appropriates it for his own use?	1 1	000000	121 122
122.	Have some people criticized you unjustly to others		12.205	123
123.	seril	1	No	ON THE OWNER
124.				
125.	Are you deserving of things far better than is your present someone of either in the for Do you think no one would keep to the "straight and narrow path" were it not for the fear of being caught?	1	No	125
126.		1	No	126
137	. Do you think that most people who allow themselves to come under interint of Yes	1	No	127
128.	dictator are to blame for their plight	1	32.01	128 129
129	Were you ever seriously double-crossed f	1	140	143
130	Do you believe the parole system works more to the advantage of the process. Yes	1		130 131
131	Do you tend to let people run over you more than you should for your own good 1 1es	1		132
100	The man frequently fait like telling "nosey" beople to mind their own business		Ne	10. BH 10.
100	Harry new often found it necessary to stand up for what you believe to be right it's	1 0		134
104	The man newally seek to become an officer 13 any organization to which you beiong		744	Aux
135	. Were you ever so deeply in debt that you did not know where the money was coming	1	No No	135 136
126	In group undertakings do you usually manage to have your own plans put into effect. It's	1	N	1883 A.
137	Do other people often blame you for things unfairly ?			1
138	3. In most cases is it important to get what you want even if you have to corde into conflict with other people in order to get it?			o 138 o 139
139). Have other people been too ready to accept credit which rightfully belongs to you? Yer		N	200448
140). Do you sometimes feel sorry for all the people in the world ?		N	
141	Have you had more than your share of hard luck?		N	R. Contractor
145	Do other people often try to put things over on you when you are not watching T Yes		N	
14:	3. Is there any person whom you would particularly like to "put in his (or her) place". Ies		N	2255 C 122 C 124 C 12
14-	1 Do you believe that most people require someone to tell them what to do?		252343	io 145
14	5. Is there any piece of music that usually makes you weep when you hear it ?		12.378	10 146
14	6. Are people in general out to get more than they give !			0
	 Do you often find it necessary to return merchandise to a store because it turns out to be not as represented fYes 		1 N	lo 141
14	8. Do people near you sometimes whisper or look knowingly at one another when they	1.10		To 148
	think you are not noticing them f Ies		e .	To 149
14	9. If someone rudely crowds ahead of you in line, do you tell him where he belongs ? Yes	and a		
15	0. Have you marked an answer ("Yes," "1," or "No") for every one of the above questions?		1 1	Vo 150

Author Baehr Melany Erna Name of thesis An Investigation Into The Determinants Of Temperament. 1987

PUBLISHER:

University of the Witwatersrand, Johannesburg ©2013

LEGAL NOTICES:

Copyright Notice: All materials on the University of the Witwatersrand, Johannesburg Library website are protected by South African copyright law and may not be distributed, transmitted, displayed, or otherwise published in any format, without the prior written permission of the copyright owner.

Disclaimer and Terms of Use: Provided that you maintain all copyright and other notices contained therein, you may download material (one machine readable copy and one print copy per page) for your personal and/or educational non-commercial use only.

The University of the Witwatersrand, Johannesburg, is not responsible for any errors or omissions and excludes any and all liability for any errors in or omissions from the information on the Library website.