

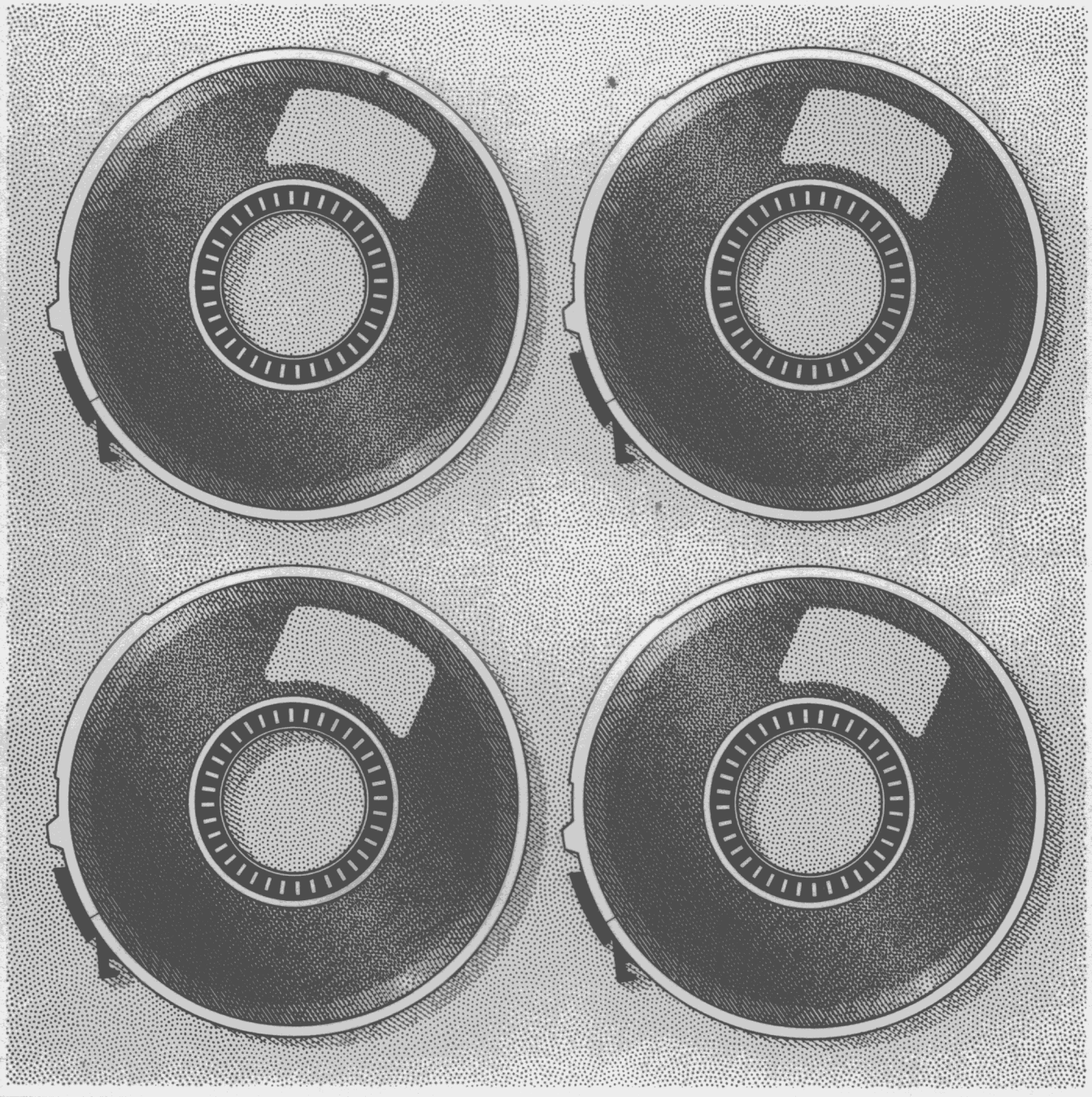
Public Use Data Tape Documentation



Physical Measurements
I Tape Number 1003

National Health Examination Survey, 1959-62

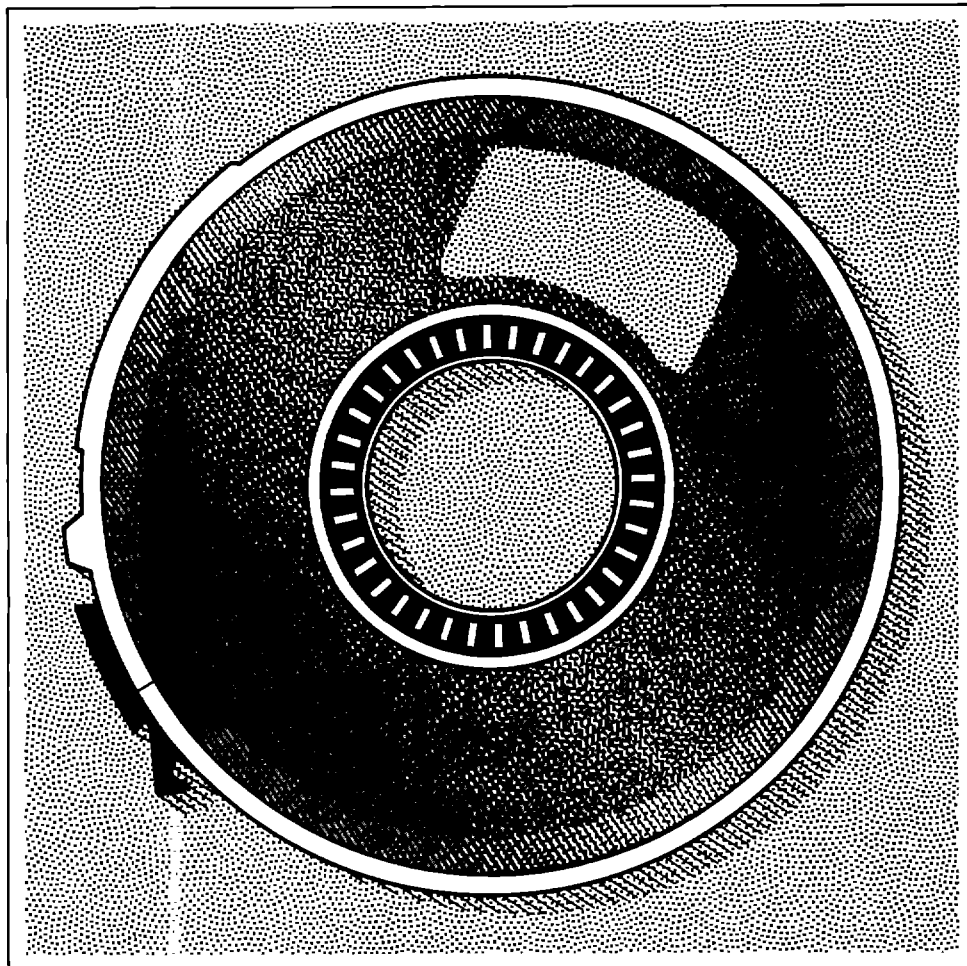
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES • Public Health Service • Office of Health Research, Statistics, and Technology • National Center for Health Statistics



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National Center for Health Statistics

Hyattsville, Maryland
May 1981

FILE CHARACTERISTICS

TITLE: User Data Set #3 - Physical Measurement
CONTENT: Physical Measurement Data by
File Sequence Number
CASE COUNT: 6672
RECORD COUNT: 6672
RECORDING MODE: FB
RECORD LENGTH: 132 Characters
RECS/BLOCK: 20 records
DENSITY: 1600-BPI
CHANNEL: 9-trk
LOCATION: North Carolina DP Facility
CREATED BY: DHES/NCHS/HSMHA
DATA SET NAME: HE003001.BODYMEAS
REEL NUMBER(S): 008274
COMMENTS: Copy of tape with same Dsname
on Reel #003930


Introduction

The overall plan of the Health Examination Survey (HES) was to conduct successive, separate cycles of examinations in specific segments of the national population. The data in this report refers to the survey for cycle 1.

The first cycle of the HES was the examination of a sample of adults. It was directed toward the collection of statistics on the medically defined prevalence of certain chronic diseases and of a particular set of dental findings and physical and physiological measurements. The probability sample consisted of 7,710 of all non-institutional civilian adults in the age range 18-79 years in the United States. Altogether, 6,672 persons were examined during the period from October 1959 to December 1962.

The tape contains data from the cycle I survey relating to the physical measurements of each examined person. There are 6,672 records of 132 characters each. The first 117 characters are coded numeric and represent forty-eight separate data items. The remaining 15 characters are filled with zeroes.

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1. File Description
2. Detailed Description of Data Items
3. Appendix A: Special Case Coding Corrections
4. Appendix B: Glossary of Selected Terms 

File Description and Codes

ITEM	Tape POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SERIAL TAPE POSITION
	FROM	TO					
1	1	5	5	File Sequence Number (codes 20001-26672)			
2	6		1	Girdle worn Code 1 = Yes 2 = No 3 = Other 4 = Male	1377 2060 144 3091	HES-207 #6	350
3	7	12	6	Final Estimation Weight <u>PHYSICAL MEASUREMENTS OF EXAMINED PERSON</u> <u>(IN UNITS)</u>			26-31
4	13	15	3	Height XX.X inches		HES-207 #9	900-902
5	16	19	4	Weight XXX.X pounds		HES-207 #10	903-906
6	20	22	3	Biacromial diameter XX.X inches		HES-207 #2	907-909
7	23	25	3	Right Arm Girth XX.X inches		HES-207 #3	910-912
8	26	28	3	Chest Girth XX.X inches		HES-207 #4	913-915
9	29	31	3	Waist Girth XX.X inches		HES-207 #5	916-918
10	32	34	3	Sum of Skinfolts XX.X centimeters		HES-207 #7	919-921
11	35	37	3	(Weight) ^{1/3} X.XX pounds			922-924
12	38	40	3	Height/(Weight) ^{1/3} XX.X inches/pound			925-927
13	41	43	3	Chest Circumference/Stature .XXX			928-930
14	44	45	2	Biacromial Diameter/Stature .XX			931-932
15	46	48	3	Sitting Normal Height XX.X inches		HES-207 #11	935-937
16	49	51	3	Sitting Erect Height XX.X inches		HES-207 #12	938-940
17	52	54	3	Knee Height XX.X inches		HES-207 #13	941-943

ITEM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SRT TAPE POSITION	
	FROM	TO						
18	55	57	3	Popliteal Height XX.X inches		HES-207 #14	944-946	
19	58	60	3	Thigh Clearance Height XX.X inches		HES-207 #15	947-949	
20	61	63	3	Buttock - Knee Length XX.X inches		HES-207 #16	950-952	
21	64	66	3	Buttock - Popliteal Length XX.X inches		HES-207 #17	953-955	
22	67	69	3	Seat Breadth (across hips) XX.X inches		HES-207 #18	956-958	
23	70	72	3	Elbow to Elbow Breadth XX.X inches		HES-207 #19	959-961	
24	73	75	3	Elbow Rest Height XX.X inches		HES-207 #20	962-964	
25	76	78	3	Sitting Erect Height/Stature X.XX			965-967	
				<u>PHYSICAL MEASUREMENTS OF EXAMINED PERSON</u> <u>(RECODED)</u>				
26	79	80	2	Height Recode Code 01 = 46.3-48.6 in. 02 = 48.7-51.0 in. 03 = 51.1-53.4 in. 04 = 53.5-55.8 in. 05 = 55.9-58.2 in. 06 = 58.3-60.6 in. 07 = 60.7-63.0 in. 08 = 63.1-65.4 in. 09 = 65.5-67.8 in. 10 = 67.9-70.2 in. 11 = 70.3-72.6 in. 12 = 72.7-75.0 in. 13 = 75.1-77.4 in. 14 = 77.5-79.8 in.	1 0 2 10 102 553 1226 1553 1377 1162 524 145 11 6	recode of pos. 13-15	1285-1286	

FILE	ITEM POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	ITEM POSITION
	FROM	TO					
27	81	82	2	Weight Recode Code 01 = 057.0-079.9 lbs. Code 02 = 080.0-102.9 lbs. Code 03 = 103.0-125.9 lbs. Code 04 = 126.0-148.9 lbs. Code 05 = 149.0-171.9 lbs. Code 06 = 172.0-194.9 lbs. Code 07 = 195.0-217.9 lbs. Code 08 = 218.0-240.9 lbs. Code 09 = 241.0-263.9 lbs. Code 10 = 264.0-286.9 lbs. Code 11 = 287.0-309.9 lbs. Code 12 = 310.0-332.9 lbs. Code 13 = 333.0-355.9 lbs. Code 14 = 356.0-378.9 lbs.	2 158 1138 1909 1660 1086 501 154 36 17 7 3 0 1	recode of pos. 1287-1288 16-19	
28	83	84	2	Biacromial diameter Recode Code 01 = 09.9-09.9 in. Code 02 = 10.0-10.9 in. Code 03 = 11.0-11.9 in. Code 04 = 12.0-12.9 in. Code 05 = 13.0-13.9 in. Code 06 = 14.0-14.9 in. Code 07 = 15.0-15.9 in. Code 08 = 16.0-16.9 in. Code 09 = 17.0-17.9 in. Code 10 = 18.0-18.9 in. Code 11 = 19.0-19.9 in.	3 1 12 304 1596 1999 1725 881 141 6 4	recode of pos. 1289-1290 20-22	

ITEM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SET TAPE POSITION
	FROM	TO					
29	85	86	2	Girth-Right Arm Recode Code 01 = 07.1-08.0 in. 02 = 08.1-09.0 in. 03 = 09.1-10.0 in. 04 = 10.1-11.0 in. 05 = 11.1-12.0 in. 06 = 12.1-13.0 in. 07 = 13.1-14.0 in. 08 = 14.1-15.0 in. 09 = 15.1-16.0 in. 10 = 16.1-17.0 in. 11 = 17.1-18.0 in. 12 = 18.1-19.0 in. 13 = 19.1-20.0 in.	21 248 734 1437 1676 1392 756 255 116 22 8 5 2	recode of pos. 23-25	1291-1292
30	87	88	2	Chest Girth Recode Code 01 = 23.0-25.9 in. 02 = 26.0-28.9 in. 03 = 29.0-31.9 in. 04 = 32.0-34.9 in. 05 = 35.0-37.9 in. 06 = 38.0-40.9 in. 07 = 41.0-43.9 in. 08 = 44.0-46.9 in. 09 = 47.0-49.9 in. 10 = 50.0-52.9 in. 11 = 53.0-55.9 in. 12 = 56.0-58.9 in.	1 35 714 1685 1800 1437 744 212 33 10 0 1	recode of pos. 26-28	1293-1294

ITEM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SMY TAPE POSITION
	FROM	TO					
31	89	90	2	Waist Girth Recode Code 01 = 12.0-14.9 in. 02 = 15.0-17.9 in. 03 = 18.0-20.9 in. 04 = 21.0-23.9 in. 05 = 24.0-26.9 in. 06 = 27.0-29.9 in. 07 = 30.0-32.9 in. 08 = 33.0-35.9 in. 09 = 36.0-38.9 in. 10 = 39.0-41.9 in. 11 = 42.0-44.9 in. 12 = 45.0-47.9 in. 13 = 48.0-50.9 in. 14 = 51.0-53.9 in.	2 0 3 150 895 1399 1340 1231 908 461 181 78 15 9	recode of pos. 29-31	1295-1296
32	91	92	2	Right Arm Skinfold Recode Code 01 = 0.1-0.5 cm. 02 = 0.6-1.0 cm. 03 = 1.1-1.5 cm. 04 = 1.6-2.0 cm. 05 = 2.1-2.5 cm. 06 = 2.6-3.0 cm. 07 = 3.1-3.5 cm. 08 = 3.6-4.0 cm. 09 = 4.1-4.5 cm. 10 = 4.6-5.0 cm. 11 = 5.1-5.5 cm. 12 = 5.6-6.0 cm.	376 1420 1239 1374 934 707 326 181 68 31 11 5	recode of HES- 207 #7	

ITEM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SRT TAPE POSITION
	FROM	TO					
33	93	94	2	Right Infrascapular Skinfold Recode Code 01 = 0.1-0.5 cm. 02 = 0.6-1.0 cm. 03 = 1.1-1.5 cm. 04 = 1.6-2.0 cm. 05 = 2.1-2.5 cm. 06 = 2.6-3.0 cm. 07 = 3.1-3.5 cm. 08 = 3.6-4.0 cm. 09 = 4.1-4.5 cm. 10 = 4.6-5.0 cm. 11 = 5.1-5.5 cm. 12 = 5.6-6.0 cm. 13 = 6.1-6.5 cm.	98 2085 1472 1294 702 556 244 123 55 31 8 3 1	recode of HES-207 #8	1299-1300
34	95	96	2	Sum of Skinfolde Recode Code 01 = 00.5-00.9 cm. 02 = 01.0-01.0 cm. 03 = 02.0-02.9 cm. 04 = 03.0-03.9 cm. 05 = 04.0-04.9 cm. 06 = 05.0-05.9 cm. 07 = 06.0-06.9 cm. 08 = 07.0-07.9 cm. 09 = 08.0-08.9 cm. 10 = 09.0-09.9 cm. 11 = 10.0-10.9 cm. 12 = 11.0-11.9 cm.	54 1291 1702 1462 1044 585 295 156 51 21 7 4	recode of Pos. 32-34	1322-1323
35	97		1	Height/(Weight) ^{1/3} Recode Code 1 = 08.8-09.5 in./lb. 2 = 09.6-10.3 in./lb. 3 = 10.4-11.1 in./lb. 4 = 11.2-11.9 in./lb. 5 = 12.0-12.7 in./lb. 6 = 12.8-13.5 in./lb. 7 = 13.6-14.3 in./lb. 8 = 14.4-15.1 in./lb.	8 71 450 1641 2670 1571 253 8	recode of pos. 36-38	1317

ITEM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SET TAPE POSITION
	FROM	TO					
36	98	99	2	Chest Circumference/Stature Recode Code 01 = .108-.167 02 = .168-.227 03 = .228-.287 04 = .288-.347 05 = .348-.407 06 = .408-.467 07 = .468-.527 08 = .528-.587 09 = .588-.647 10 = .648-.707 11 = .708-.767 12 = .768-.827	0 0 0 0 2 135 1800 2784 1521 371 52 7	recode of pos. 39-41	1318-1319
37	100		1	Biacromial Diameter/Stature Recode Code 1 = .13-.14 2 = .15-.16 3 = .17-.18 4 = .19-.20 5 = .21-.22 6 = .23-.24 7 = .25-.26 8 = .27-.28	1 3 18 636 3679 2156 167 12	recode of pos. 42-44	1320-1321
38	101	102	2	Sitting Normal Height Recode Code 01 = 14.1-15.9 in. 02 = 16.0-17.8 in. 03 = 17.9-19.7 in. 04 = 19.8-21.6 in. 05 = 21.7-23.5 in. 06 = 23.6-25.4 in. 07 = 25.5-27.3 in. 08 = 27.4-29.2 in. 09 = 29.3-31.1 in. 10 = 31.2-33.0 in. 11 = 33.1-34.9 in. 12 = 35.0-36.8 in. 13 = 36.9-38.7 in.	1 0 0 0 0 2 15 83 843 2336 2527 792 73	recode of pos. 45-47	1301-1302

EM	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SRT TAPE POSITION
	FROM	TO					
9	103	104	2	Sitting Erect Height Recode Code 01 = 17.0-18.9 in. Code 02 = 19.0-20.9 in. Code 03 = 21.0-22.9 in. Code 04 = 23.0-24.9 in. Code 05 = 25.0-26.9 in. Code 06 = 27.0-28.9 in. Code 07 = 29.0-30.9 in. Code 08 = 31.0-32.9 in. Code 09 = 33.0-34.9 in. Code 10 = 35.0-36.9 in. Code 11 = 37.0-38.9 in. Code 12 = 39.0-40.9 in.	1 0 0 0 3 17 166 1262 2696 1946 561 20	recode of pos. 48-50	1303-1304
)	105	106	2	Knee Height Recode Code 01 = 15.0-15.9 in. Code 02 = 16.0-16.9 in. Code 03 = 17.0-17.9 in. Code 04 = 18.0-18.9 in. Code 05 = 19.0-19.9 in. Code 06 = 20.0-20.9 in. Code 07 = 21.0-21.9 in. Code 08 = 22.0-22.9 in. Code 09 = 23.0-23.9 in. Code 10 = 24.0-24.9 in. Code 11 = 25.0-25.9 in. Code 12 = 26.0-26.9 in.	3 13 213 846 1619 1735 1316 687 203 29 4 4	recode of pos. 51-53	1305-1306
	107	108	2	Popliteal Height Recode Code 01 = 09.0-09.9 in. Code 02 = 10.0-10.9 in. Code 03 = 11.0-11.9 in. Code 04 = 12.0-12.9 in. Code 05 = 13.0-13.9 in. Code 06 = 14.0-14.9 in. Code 07 = 15.0-15.9 in. Code 08 = 16.0-16.9 in. Code 09 = 17.0-17.9 in. Code 10 = 18.0-18.9 in. Code 11 = 19.0-19.9 in. Code 12 = 20.0-20.9 in. Code 13 = 21.0-21.9 in.	1 1 1 10 168 811 1369 2023 1513 544 199 29 3	recode of pos. 54-56	1307-1308

4	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SRT TAPE POSITION
	FROM	TO					
	109		1	Thigh Clearance Height Recode Code 1 = 03.0-03.9 in. 2 = 04.0-04.9 in. 3 = 05.0-05.9 in. 4 = 06.0-06.9 in. 5 = 07.0-07.9 in. 6 = 08.0-08.9 in. 7 = 09.0-09.9 in. 8 = 10.0-10.9 in.	53 1436 3522 1487 152 17 3 2	recode of pos. 57-59	1309
	111		1	Buttock - Knee Length Record Code 1 = 17.0-18.9 in. 2 = 19.0-20.9 in. 3 = 21.0-22.9 in. 4 = 23.0-24.9 in. 5 = 25.0-26.9 in. 6 = 27.0-28.9 in. 7 = 29.0-30.9 in.	13 453 3280 2663 251 12 0	recode of pos. 60-62	1310
	111	112	2	Buttock - Politeal Length Record Code 01 = 14.0-14.9 in. 02 = 15.0-15.9 in. 03 = 16.0-16.9 in. 04 = 17.0-17.9 in. 05 = 18.0-18.9 in. 06 = 19.0-19.9 in. 07 = 20.0-20.9 in. 08 = 21.0-21.9 in. 09 = 22.0-22.9 in. 10 = 23.0-23.9 in. 11 = 24.0-24.9 in.	6 25 190 897 1838 2088 1142 388 80 14 4	recode of pos. 63-65	1311-1312
5	113		1	Seat Breadth Recode Code 1 = 09.2-10.6 in. 2 = 10.7-12.1 in. 3 = 12.2-13.6 in. 4 = 13.7-15.1 in. 5 = 15.2-16.6 in. 6 = 16.7-18.1 in. 7 = 18.2-19.6 in. 8 = 19.7-21.1 in. 9 = 21.2-22.6 in.	7 200 2173 2971 1024 228 56 7 6	recode of pos. 66-68	1313

M	TAPE POSITION		NUMBER OF POSITIONS	ITEM DESCRIPTION & CODES	CONTROLS COUNTS	SOURCE	SRT TAPE POSITION
	FROM	TO					
6	114		1	Elbow-to-Elbow Breadth Recodes Code 1 = 08.0-09.0 in. 2 = 10.0-11.9 in. 3 = 12.0-13.9 in. 4 = 14.0-15.9 in. 5 = 16.0-17.9 in. 6 = 18.0-19.9 in. 7 = 20.0-21.9 in. 8 = 22.0-23.9 in. 9 = 24.0-25.9 in.	1 77 1120 2424 1985 828 204 22 11	recode of pos. 69-71	1314
7	115	116	2	Elbow Rest Height Recode Code 01 = 02.0-02.9 in. 02 = 03.0-03.9 in. 03 = 04.0-04.9 in. 04 = 05.0-05.9 in. 05 = 06.0-06.9 in. 06 = 07.0-07.9 in. 07 = 08.0-08.9 in. 08 = 09.0-09.9 in. 09 = 10.0-10.9 in. 10 = 11.0-11.9 in. 11 = 12.0-13.9 in.	1 0 4 40 142 652 1692 2342 1317 402 80	recode of pos. 72-74	1315-1316
8	117		1	Sitting Erect Height/Stature Recode Code 0 = .37-.39 1 = .40-.42 2 = .43-.45 3 = .46-.48 4 = .49-.51 5 = .52-.54 6 = .55-.57 7 = .58-.60 8 = .61-.63 9 = .64-.66	1 0 4 89 2103 4186 283 5 0 1	recode of pos. 75-77	1324-1325

DETAILED DESCRIPTION
OF DATA ITEMS ON
THE PHYSICAL MEASUREMENT TAPE

Eighteen measurements of body size were taken and recorded on form HES-207, the Health Examination Survey Physical Measurement Data Sheet. These measurements include biacromial diameter, right arm girth, chest girth, waist girth, right arm skinfold, right infrascapular skinfold, height, weight, sitting normal height, sitting erect height, knee height, popliteal height, thigh clearance height, buttock-knee length, buttock-popliteal length, seat breadth (across hips), elbow-to-elbow breadth and elbow rest height. These body dimensions other than weight are the scale readings recorded to the nearest millimeter. When the body dimensions were measured with the upper sections of the anthropometer, the length of the base section which was not used was later subtracted mechanically. The base section length was subtracted from the normal sitting height, erect sitting height, knee height, popliteal height and thigh clearance height measurements. All linear measurements, other than skinfolds, were converted from centimeters to inches.

All measurements were made with the examinee stripped to the waist and without shoes, but wearing paper slippers and a lightweight knee-length examining gown.

Detail Note #1

File Sequence Number

This five digit code represents two identifying numbers. The first is the number 'two' which is given to every record. This number identifies the tape as being a physical measurements tape. The last four digits sequentially number all of the records (from 0001 to 6672) on the tape.

Detail Note #3

Final Estimate Weight

This data item is the final weighting factor that will adjust the sampled person to the PSU selection technique and to the post-stratification by age and sex for the final national estimates. In addition this number was adjusted so that the biasing effect of non-response would be minimized.

Detail Note #4 & #26

Height

The examinee stood erect on a horizontal platform with his back against a vertical measuring scale 3 inches wide, looking straight ahead with his head in the Frankfurt horizontal plane. A 1 1/2 inch wide horizontal measuring bar was brought down snugly on top of his head. An adhesive strip with the examinee's case number was attached to the scale's pointer support and the position of the pointer on the scale was photographed. For examinees too tall to be photographed (over 75 inches) height was measured with an anthropometer. The anthropometer was held perpendicular to the floor in the midline of the examinee's back and the movable bar was brought down into firm contact with the top of the head. Height was recorded in millimeters and then converted mechanically to measurements in tenths of an inch.

Detail Note #5 & #27

Weight

The examinee stood without support on the platform of an automatic balancing scale. His weight was immediately reproduced on his record which was inserted in the scale's automatic printer. The value was then read off the record to the nearest half pound. A small study of representative clothing showed the weight of men's clothing worn in the examination to be slightly over two pounds and that of women's clothing to be slightly less than two pounds. The values for weight were not corrected for clothing.

Detail Note #6 & #28

Biacromial Diameter

The observer stood behind the examinee who was standing without support, placed his hands on the examinee's shoulder, asked him to roll his shoulders slightly forward, and assisted him in doing so. The observer located the outermost edges of the acromion by following the scapular spines laterally and forward. The location of the acromial process was marked with a ballpoint pen or skin-marking pencil without distorting the position of the skin over the acromion. The measurement was taken with the bars of the anthropometer held short, fingers at the tips of the bars, and palms on the rod. The movable bar was adjusted to measure the width between the most lateral surfaces of the acromion with firm contact. The reading was taken at the inner edge of the movable bar, without changing the position of the movable bar, on the scale that increased downward from the fixed bar.

Detail Note #7 & #29

Right Arm Girth

The examinee stood and held his right forearm at a right angle to the upper arm. The observer measured the distance from the acromion (at the shoulder) to the olecranon (at the elbow) on the outer side of the arm using a steel tape. The midpoint of the acromion-olecranon distance was marked with a ballpoint pen or skinmarking pencil on both sides of the tape. The biceps circumference was measured at this level, while the arm was extended, with a steel tape held in contact without deforming the contours of the arm.

Detail Note #8 & #30

Chest Girth

This measurement was taken while the examinee was standing relaxed, breathing normally, with his arms slightly raised. On men, a steel centimeter tape was applied without deforming the skin contours, in the horizontal plane around the chest at the nipple line. The women were measured without a brassiere. A steel centimeter tape was applied in the horizontal plane at the uppermost part of the axillary fold, without deforming the skin contours.

Detail Note #9 & #31

Waist Girth

The steel tape was applied horizontally at the natural indentation of the waistline or at a level midway between the iliac crests and the lower edge of the rib cage, if no indentation was present.

Detail Note #10 & #34

Sum of Skinfolts

The measurement is the sum of the right upper arm skinfold and the right infrascapular skinfold. The skinfolts were measured with the standard caliper developed by Oscar Lange of the University of Kentucky in Lexington, Kentucky, manufactured by the Cambridge Scientific Instruments, Cambridge, Maryland. When a skinfold was difficult to measure an indication of "tight skin" was recorded next to the measurement to be taken into consideration when analyzing the data. Refer to the detailed descriptions of Upper arm skinfold (Item 32) and Infrascapular skinfold (Item 33).

Detailed Note #11

(Weight) 1/3

Refer to the detailed description of Weight (Item 4).

Detailed Note #12 & #35

Height/(Weight)^{1/3}

This measurement is defined as the ponderal index. Refer to the detailed descriptions of Height (Item 3) and Weight (Item 4).

Detailed Note #13 & #36

Chest Circumference/Stature

Refer to the detailed descriptions of Chest Girth (Item 7) and Height (Item 3).

Detailed Note #14 & #37

Biacromial Diameter/Stature

Refer to the detailed descriptions of Biacromial diameter (Item 5) and Height (Item 3).

Detailed Note #15 & #38

Sitting Normal Height

The examinee sat normally relaxed, hands in lap, looking straight ahead with head in the Frankfort horizontal plane. The anthropometer was held vertically along the middle of the back, and the measuring bar was brought down into firm contact with the top of the head, in the midline.

Detailed Note #16 & #39

Sitting Erect Height

The examinee sat erect, looking straight ahead, head in the Frankfort horizontal plane, knees together, elbows at sides, forearms at right angles, hands open, palms facing each other. The anthropometer was held vertically along the middle of the back, and the measuring bar was brought down into firm contact with the top of the head, in the midline.

Detailed Note #17 & #40

Knee Height

The examinee sat erect, heels and knees together. The anthropometer was held vertically and the measurement was made from the top of the footboard to the top of the right knee just in back of the knee cap, with the horizontal bar in light contact with the leg.

Detailed Note #18 & #41

Popliteal Height

The examinee sat relaxed. The measurement was made with an anthropometer from the top of the footboard to the top of the sitting surface on the examinee's right side.

Detailed Note #19 & #42

Thigh Clearance Height

The examinee sat erect, knees together, heels together, right hand on left shoulder. The measurement was made with an anthropometer, from the top of the sitting surface to the junction of the abdomen and thigh on the right side with the crossbar in firm contact to compress the clothing.

Detailed Note #20 & #43

Buttock-Knee Length

The examinee sat erect, knees together, hands in lap, popliteal fossae at the front edge of the sitting board. The measurement was made between the bars of the anthropometer, from the most posterior protrusion of the sacral area to the foremost edge of the patella on the examinee's right side.

Detailed Note #21 & #44

Buttock-popliteal length

The examinee sat erect, hands on knees, popliteal fossae at the edge of the sitting board. The measurement was made with an anthropometer from the inner edge of a backboard, which was held in light contact with the examinee's back at right angles to the sitting board, to the front edge of the sitting surface on the right side.

Detailed Note #22 & #45

Seat Breadth

The examinee sat erect, knees together, hands on knees. The measurement was made with an anthropometer, across the greatest lateral protrusion on each side of the buttocks, using light but sure contact to compress the clothing but not the body.

Detailed Note #23 & #46

Elbow-to-Elbow Breadth

The examinee sat erect, knees together, forearms at right angles, hands open, palms facing each other, and elbows held as tightly as possible to the sides. The measurement was made with an anthropometer, across the lateral projections of the elbows with firm pressure.

Detailed Note #24 & #47

Elbow Rest Height

The examinee sat erect, shoulders relaxed, both elbows at right angles, fingers straight. The measurement was made with an anthropometer held vertically from the sitting surface to the lowest portion of the elbow, on the right side, using light contact only.

Detailed Note #25 & #48

Sitting Erect Height/Stature

Refer to detailed descriptions of Sitting Erect Height (Item 16) and Height (Item 4).

Detailed Note #32

Right Arm Skinfold

The upper arm skinfold was measured over the back of the right arm, parallel to the long axis of the arm and 1 centimeter over the midpoint mark where the arm girth measurement was taken.

Detailed Note #33

Infrascapular Skinfold

The infrascapular skinfold measurement was taken 1 centimeter below the tip of the right scapula. The skinfold was angled about 45 degrees from the horizontal, going medially upward and laterally downward.

APPENDIX A

Special Case Coding Corrections

The following seventeen cases were coded as Male in the Girdle worn category, SRT position 350, and as Female in the Sex category, SRT position 880. Therefore, the code was changed from '4' (Male) to '3' (other) in the girdle worn category.

Case Numbers

01165	26085
02136	28075
03072	31061
03132	31097
04117	34076
10180	38019
14165	29131
14166	92088
23190	