Dr. Meyer's Marshallese subjects

402608

subject #	Sex	Age	Ht (cm)	Wt (kg)	TBW in L.	wt of fat kg	lean body wt kg	water (L)	water (kg)
822	M	16	160.	54.54	38.12	~~26.45~~	~~28.09~~		
832	F	24	147.3	46.36	24.95	12.23	34.13		
836	M	30	163.8	56.36	35.32	8.03	48.33		
838	M	30	162.6	66.13	41.72	9.05	57.08		
841	F	30	163.8	66.81	31.88	23.21	43.60		
873	M	44	175.3	61.36	43.22	2.23	59.13		
881	M	30	165.1	68.63	32.80	23.77	44.68		
882	M	29	160.0	54.77	39.90	0.19	54.58		
885	F	23	163.8	61.81	41.00	5.75	56.06		
895	F	33	151.1	55.90	29.22	15.92	39.98		
916	F	39	148.6	63.63	32.55	19.11	44.52		
928	F	50	157.5	57.27	29.35	17.12	40.15		
932	F	28	146.0	46.30	26.20	10.46	35.84		
938	F	24	142.2	40.00	21.98	9.95	30.05		
942	F	48	148.6	57.72	27.60	14.97	37.75		
959	F	14	151.1	60.00	32.15	16.02	43.98		
960	F	11	149.9	38.63	24.75	4.77	33.86		
1007	M	52	163.8	71.36	41.22	14.97	56.39		
1043	F	28	147.3	41.81	26.42	5.66	36.15		
1501	M	30	162.6	66.81	* 43.32	* 7.54	* 59.27		
Jeton	M	30	165.1	63.18	39.75	8.81	54.37		

* Done by ratio method – all others done by internal standard method.

Dr. Meyer's Marshallese subjects

Subject #	Sex	Age	Ht (cm)	Wt (kg)	TBW in L.	wt of fat kg	lean body wt kg	water (kg) / Total body wt
822	M	16	160.	54.54	38.12	26.45	28.09	68.84
832	F	24	147.3	46.36	24.95	12.23	34.13	53.01
836	M	30	163.8	56.36	35.32	8.03	48.33	61.74
838	M	30	162.6	66.13	41.72	9.05	57.08	62.15
841	F	30	163.8	66.81	31.88	23.21	43.60	46.99
873	M	44	175.3	61.36	43.22	2.23	59.13	69.39
881	M	30	165.1	68.63	32.80	23.77	44.68	47.07
882	M	29	160.0	54.77	39.90	0.19	54.58	71.75
885	F	23	163.8	61.81	41.00	5.75	56.06	65.30
895	F	33	151.1	55.90	29.22	15.92	39.98	51.50
916	F	39	148.6	63.63	32.55	19.11	44.52	50.38
928	F	50	157.5	57.27	29.35	17.12	40.15	50.48
932	F	28	146.0	46.30	26.20	10.46	35.84	55.74
938	F	24	142.2	40.00	21.98	9.95	30.05	54.10
942	F	48	148.6	57.72	27.60	19.97	37.75	47.10
959	F	14	151.1	60.00	32.15	16.02	43.98	52.78
960	F	11	149.9	38.63	24.75	4.77	33.86	63.11
1007	M	52	163.8	71.36	41.22	14.97	56.39	56.90
1043	F	28	147.3	41.81	26.42	5.66	36.15	62.25
1501	M	30	162.6	66.81	* 43.32	* 7.54	* 59.27	* 42.62
Jeton	M	30	165.1	63.18	39.75	8.81	54.37	61.96

* Done by ratio method – all others done by internal standard method.

(2)

DR. L. MEYERS SUBJECTS

Subject	Sex	Age	Wt. kg	% Fat (2)	Wt. of fat in kg.	Lean body wt (kg)	Ht cm. (in × 2.54)
822	M	16	54.54	19.36	10.56	43.98	160.0
832	F	24	46.36	19.82	9.19	37.17	147.3
836	M	30	56.36	0	0	56.36	163.8
838	M	30	66.13	6.24	4.13	62.00	162.6
841	F	30	66.81	48.82	32.31	34.50	163.8
873	M	44	61.36	0	0	61.36	175.3
881	M	30	68.63	30.39	20.86	47.77	165.1
882	M	29	54.77	— 5%	0	54.77	160.0
885	M	23	61.81	0.18	0.11	61.63	163.8
895	F	33	55.90	26.58	14.86	29.32	151.1
916	F	39	63.63	24.38	15.51	48.12	148.6
928	F	50	57.27	23.21	13.29	43.98	157.5
932	F	28	46.3	16.01	7.41	38.89	146.0
938	F	24	40.00	18.26	7.30	32.70	142.2
942	F	48	57.72	29.61	17.09	40.63	148.6
959	F	14	60.00	21.29	12.77	47.23	151.1
960	F	11	38.63	3.86	14.91	23.72	149.9
1007	M	52	71.36	19.54	13.94	57.42	163.8
1043	F	28	41.81	9.70	4.06	37.75	147.3
1501	M	30	66.81	11.29	7.54	59.27	162.6
Seton	M	30	63.18	14.21	8.98	54.20	165.1

(2)

DR. L. MEYERS SUBJECTS

Subject	Sex	Age	Wt. Kg	% Fat	Wt. of fat in Kg.	Lean body wt (Kg)	Ht cm. (m x 2.54)
822	M	16	54.54	19.36	10.56	43.98	160.0
832 ✓	F	24	46.36	19.82	9.19	37.17	147.3
836 ✓	M	30	56.36	0	0	56.36	163.8
838 ✓	M	30	66.13	6.24	4.13	62.00	162.6
841 ✓	F	30	66.81	48.82	32.31	34.50	163.8
873 ✓	M	44	61.36	0	-0	61.36	175.3
881 ✓	M	30	68.63	30.39	20.86	47.77	165.1
882	M	29	54.77	- 5%	0	54.77	160.0
885	M	23	61.81	0.18	0.11	61.63	163.8
895	F	33	55.90	26.58	14.86	29.32	151.1
916	F	39	63.63	24.38	15.51	48.12	148.6
928	F	50	57.27	23.21	13.29	43.98	157.5
932	F	28	46.3	16.01	7.41	38.89	146.0
938	F	24	40.00	18.26	7.30	32.70	142.2
942	F	48	57.72	29.61	17.09	40.63	148.6
959	F	14	60.00	21.29	12.77	47.23	151.1
960 ✓	F	11	38.63	3.86	14.91	23.72	149.9
1007	M	52	71.36	19.54	13.94	57.42	163.8
1043 ✓	F	28	41.81	9.70	4.06	37.75	157.3
1501	M	30	66.81	11.29	7.54	59.27	162.6
Seton	M	30	63.18	14.21	8.98	54.20	165.1

Dr. Meyers subjects Recount

6/14/63

10 Min counts

Contents	Hole #	CPM	Ratio	Efficiency	Quench Correction	CPM - Bkg	Corrected to 2 cc of 1/25 0.05 st
A	A	10,100	0.75	14.97	2.67	10,069	26,688
B	B	6,666	0.76	15.01	2.66	6,635	17,649
C	39	6,086	0.75	14.97	2.67	6,055	16,167
D	40	8,015	0.73	14.00	2.86	7,984	22,834
E	41	5,968	0.74	14.94	2.68	5,937	15,911
F	42	7,825	0.75	14.97	2.67	7,794	20,81C
G	43	6,508	0.74	14.94	2.68	6,477	17,358
H	44	6,134	0.75	14.97	2.67	6,103	16,29:
I	45	8,622	0.74	14.94	2.68	8,591	23,02·
J	46	7,812	0.74	14.94	2.68	7,781	20,85:
K	47	8,556	0.74	"	"	8,525	22,84,
L	48	6,555	0.74	"	"	6,524	17,484
M	49	10,078	0.74	"	"	10,047	26,92
N	50	9,638	0.73	14.97	2.67	9,607	25,65.
O	51	11,535	0.74	14.94	2.68	11,504	30,83,
P	52	9,283	0.75	14.97	2.67	9,252	24,703
Q	53	7,886	0.74	14.94	2.68	7,855	21,05,
R	54	6,106	0.73	14.00	2.86	6,075	17,374
S	55	9,997	0.75	14.97	2.67	9,966	26,609
T	56	5,937	0.73	14.00	2.86	5,906	16,891
U	57	1,958	0.76	15.01	2.66	x3.33 6,423	17,085
Bkg V	59	31	1.94	—	—		
std. W1	59	10,456	0.73	14.00	2.86	10,425	29,81

1958
31
1927

A N
37 N
10.00 N
58,096.00 N
43,406.00 N
101,000.00 N
5,809.60
4,340.60
10,100.00
74.71
B N
38 N
10.00 N
38,131.00 N
28,877.00 N
66,664.00 N
3,813.10
2,887.70
6,666.40
75.73
C N
39 N
10.00 N
34,952.00 N
26,258.00 N
60,865.00 N
3,495.20
2,625.80
6,086.50
75.12
D N
40 N
10.00 N
46,487.00 N
34,050.00 N
80,146.00 N
4,648.70
3,405.00
8,014.60
73.24
E N
41 N
10.00 N
34,451.00 N
25,529.00 N
59,675.00 N
3,445.10
2,552.90
5,967.50
74.10
F N
42 N
10.00 N
44,926.00 N
33,760.00 N
78,254.00 N
4,492.60
3,376.00
7,825.40
75.14
G N
43 N
10.00 N
37,587.00 N
27,840.00 N
65,079.00 N
3,758.70
2,784.00
6,507.90
74.06
H N
44 N
10.00 N
35,276.00 N
26,363.00 N
61,347.00 N
3,527.60
2,636.30

	74.06	
	H	N
	44	N
10	00	N
35,276	00	N
26,363	00	N
61,347	00	N
3,527	60	
2,636	30	
6,134	70	
74	73	
	I	N
	45	N
10	00	N
49,697	00	N
36,961	00	N
86,223	00	N
4,969	70	
3,696	10	
8,622	30	
74	37	
	J	N
	46	N
10	00	N
45,173	00	N
33,363	00	N
78,116	00	N
4,517	30	
3,336	30	
7,811	60	
73	85	
	K	N
	47	N
10	00	N
49,547	00	N
36,488	00	N
85,563	00	N
4,954	70	
3,648	80	
8,556	30	
73	64	
	L	N
	48	N
10	00	N
37,808	00	N
28,099	00	N
65,550	00	N
3,780	80	
2,809	90	
6,555	00	
74	32	
	M	N
	49	N
10	00	N
58,085	00	N
43,238	00	N
100,785	00	N
5,808	50	
4,323	80	
10,078	50	
74	43	
	N	N
	50	N
10	00	N
55,495	00	N
41,409	00	N
96,379	00	N
5,549	50	
4,140	90	
9,637	90	
74	61	
	O	N
	51	N
10	00	N
66,574	00	N
49,410	00	N
115,351	00	N
6,657	40	
4,941	00	
11,535	10	
74	21	
	P	N

3	9,9	1	5	.0	0	N	
9	2,8	3	3	.0	0	N	
	5,3	4	1	.0	0		
	3,9	9	1	.5	0		
	9,2	8	3	.3	0		
		7	4	.7	3		
						N	
				5	3	N	
		1	0	.0	0	N	
4	5,6	8	3	.0	0	N	
3	3,5	7	7	.0	0	N	
7	8,8	5	5	.0	0	N	
	4,5	6	8	.3	0		
	3,3	5	7	.7	0		
	7,8	8	5	.5	0		
		7	3	.4	9		
						N	
				5	4	N	
		1	0	.0	0	N	
3	5,3	7	3	.0	0	N	
2	5,9	9	5	.0	0	N	
6	1,0	5	6	.0	0	N	
	3,5	3	7	.3	0		
	2,5	9	9	.5	0		
	6,1	0	5	.6	0		
		7	3	.4	8		
						N	
				5	5	N	
		1	0	.0	0	N	
5	7,5	6	2	.0	0	N	
4	2,9	2	1	.0	0	N	
9	9,9	6	9	.0	0	N	
	5,7	5	6	.2	0		
	4,2	9	2	.1	0		
	9,9	9	6	.9	0		
		7	4	.5	6		
						N	
				5	6	N	
		1	0	.0	0	N	
3	4,5	4	6	.0	0	N	
2	5,1	2	5	.0	0	N	
5	9,3	7	0	.0	0	N	
	3,4	5	4	.6	0		
	2,5	1	2	.5	0		
	5,9	3	7	.0	0		
		7	2	.7	2		
						N	
				5	7	N	
		1	0	.0	0	N	
1	1,1	5	3	.0	0	N	
	8,5	4	2	.0	0	N	
1	9,5	8	2	.0	0	N	
	1,1	1	5	.3	0		
		8	5	4	.2	0	
	1,9	5	8	.2	0		
		7	6	.5	8		
						N	
				5	8	N	
		1	0	.0	0	N	
	1	0	7	.0	0	N	
	2	0	8	.0	0	N	
	3	1	2	.0	0	N	
		1	0	.7	0		
		2	0	.8	0		
		3	1	.2	0		
	1	9	4	.3	9		
						N	
				5	9	N	
		1	0	.0	0	N	
6	0,6	6	6	.0	0	N	
4	4,4	3	9	.0	0	N	
1	0 4,5	5	6	.0	0	N	
	6,0	6	6	.6	0		
	4,4	4	3	.9	0		
	1 0,4	5	5	.6	0		
		7	3	.2	5		

Counting water (H^3) distilled from urine by freeze drying. Channels Ratio

232 10,363 CPM — m^{2cc} H_2O from distilled urine
— 29 Bkg
10,334 CPM Ratio 0.76 eff. 15.01

I brought all samples to the same efficiency and the unquench H3 std is 40. For sample 232 this meant multiplying CPM by 2.66 = 27,488

My std was 2 cc of distilled H_2O containing 1/25,000 of the dose the subjects took.

(All corrected to 40% counting effic.) $\frac{\text{Std (CPM - Bkg)}}{\text{subject (CPM - Bkg)}}$ $\frac{29,904}{27,488} = 1.088$

X dilution factor of 25000 = 27200
this is now Total Body Water in cc
= 27,200 L.

L x 0.985 convert to kg H_2O = 26.792 kg

% H_2O = $\frac{\text{Kg } H_2O}{\text{Total body wt}} = \frac{26.792}{46.36} = 57.79\%$

% Fat in Human Body = $100 - \frac{\% H_2O}{0.72} = (80.26) = 19.74$

wt of fat = % Fat x Bd. Wt = 9.15
Lean Body WT = Total Body wt − Fat = 46.36 kg − 9.15 kg

int. std. method

% Fat × Body wt

Subject #	Male *	% Fat	Wt of fat (kg)	Lean body wt (kg)	Ht cm	Wt. kg	Sex	Age
822		4.89	26.45	28.09			M	16
32		26.32	12.23	34.13			F	24
36		14.25	8.03	48.33			M	30
38		13.24	9.05	57.08			M	30
41		34.74	23.21	43.60			F	30
73		3.63	2.23	59.13			M	44
81		34.65	23.77	44.68			M	30
82		0.35	0.19	54.58			M	29
85		9.31	5.75	56.06			M	23
95		28.24	15.92	39.98			F	33
916		30.03	19.11	44.52			F	39
928		29.89	17.12	40.15			F	50
932		22.51	10.46	35.84			F	28
38		24.87	9.95	30.05			F	24
42		34.59	19.97	37.75			F	48
59		26.70	16.02	43.98			F	14
60		12.35	4.77	33.86			F	11
1007		20.93	14.97	56.39			M	52
1043		13.55	5.66	36.15			F	28
1501							M	30
Jelen		13.95	8.81	54.37			M	30

Dr. Meyer's samples done with int std ¹B
the std was brought up to 2.2 cc c
H_2O so no water correction was made

		S 6/14/63 CPM	Vol = 2cc CPM-Bkg	Vol 2.2cc samples + int std (← 6/18/63)	T-S 1.057 corrected	T-S 1.0042	Ratio	(S-B) corrected for quenching
A -	832	10,100	10069	19056	20,142	~~10,273~~	Ratio corr. wt 1.11	10431
B	836	6666	6635	16048	16 963	9382	1.11	7366
C	838	6086	6055	15281	16 152	10 ~~123~~ 098	1.03	6237
D	841	8015	7924	17153	18 131	10 178	1.022	8160
E	873	5968	5937	15298	16 170	10 264	1.014	6020
F	881	7825	7794	17013	17 982	10 219	1.018	7934
G.	882	6508	6477	15934	16 842	10 334	1.007	6522
H	885	6134	6103	15274	16 145	10 011	1.040	6347
I	895	8622	8591	17659	18 666	10 044	1.036	8900
J	916	7812	7781	16980	17 948	10 136	1.027	7991
K	928	8556	8525	17 565	18 566	10 010	1.040	8866
L	→ 922	6555	6524	15 618	16 508	9953	1.046	→ 6824
M	960	10,078	10,047	18951	20 031	9 953	1.046	10,50[illegible]
N	932	9638	9607	18640	19 702	10 064	1.034	9934
O	938	11 535	11,504	20481	21 648	10113	1.029	11 838
P	942	9283	9252	18446	19 497	10214	1.019	9428
Q	959	7886	7855	17024	17 994	10 108	1.030	8091
R	1007	6106	6075	15 250	16 119	10013	1.039	631[illegible]
S	1043	9997	9966	19429	20 536	10 539	0.988	9846
T	1501	5937	5906	~~12548~~	~~13 263~~	~~7 326~~	~~1.421~~	
U	Jeton	1958 (x3.33)	6417	11 504	12,160	10,202	1.020	6545
V	Bkg	31	31	28	—			
W*	std	made 10,456	19,425 ✡	9,847	10,408	—		
~~Z~~	std	2cc of 1/25,000 std		10,351				
W	std			10,440				

* same pnt as used to prepare patient dose
✡ brought up to 2.2cc H_2O c̄ dist H_2O

(2) Dr. Mayer's patients Int std method

Subject #	Ratio std cpm-BFG / subject cpm-BFG	Ratio x 2.5 x 10⁴	TBW in L	L x 0.985 = Kg Lean tissue	% H_2O = Kg H_2O / Kg Body wt	cal. % Fat = 100 − % H_2O / 0.72
822	1.585	38,125	38.12 L	37.55	68.84	95.11
32	0.998	24,950		24.58	53.01	73.65
36	1.413	35,325		34.80	61.74	85.75
38	1.669	41,725		41.10	62.15	86.31
41	1.275	31,875		31.40	46.99	65.26
73	1.729	43,225		42.58	69.39	96.37
81	1.312	32,800		32.31	47.07	65.37
82	1.516	37,900		39.30	71.75	99.66
85	1.640	41,000		40.38	65.30	90.69
85 —	1.169	29,225		28.79	51.50	71.52
916	1.302	32,550		32.06	50.38	69.97
28	1.174	29,350		28.91	50.48	70.11
32	1.048	26,200		25.81	55.74	77.41
38	0.879	21,975		21.64	54.16	75.22
42	1.104	27600		27.19	47.10	65.41
59	1.286	32150		31.67	52.78	73.31
60	0.990	24750		24.38	63.11	87.65
1007	1.649	41225		40.607	56.90	79.03
1043	1.057	26425		26.03	62.25	86.46
1501						
Jetton	1.590	39750		39.15	61.96	86.05

Dr Meyer's subjects

5/27/63

Bott	Bottle #	Machine Hole #	CPM		Ratio	efficiency ~~Quench~~ correction	Quench correction	corrected counts (corrected to 2cc 1/25,000 std)
832	A	21	10,363	[illegible]	0.76	15.01%	2.66	27,488
836	B	22	6,746	6717	0.76	15.01	2.66	17,867
838	C	23	6,227	[illegible]	0.76	15.01	2.66	16,487
841	D	24	8,187	[illegible]	0.75	14.97	2.67	21,782
873	E	25	6,170	[illegible]	0.75	14.97	2.67	16,396
881	F	26	8,044	[illegible]	0.75	[illegible]	[illegible]	21,400
882	G	27	6,681	[illegible]	0.76	15.01	2.66	17,694
885	H	28	6,213	[illegible]	0.74	14.94	2.6[illegible]	16,573
895	I	29	8,738	[illegible]	0.73	14.[illegible]	2.[illegible]	24,908
916	J	30	8,019	[illegible]	0.76	15.[illegible]	2.66	21,248
928	K	31	8,737	[illegible]	0.75	14.[illegible]7	2.67	23,250
822	L	32	6,801	6772	0.75	[illegible]	2.67	18,081
960	M	33	10,336	[illegible]	0.75	[illegible]	2.67	27,520
932	N	34	9,875	[illegible]	0.74	[illegible]	2.671	[illegible]
938	O	35	11,742	[illegible]	0.74	[illegible]	2.67	[illegible]
942	P	36	9,490	[illegible]	0.76	15.01	2.66	25,166
959	Q	37	8,136	[illegible]	0.75	14.[illegible]7	[illegible]67	21,646
1007	R	38	6,253	6224	0.73	14.[illegible]	2.86	17,801
1043	S	39	10,128	[illegible]	0.74	[illegible]	2.65	27,0[illegible]
1501	T	40	6,060	[illegible]	0.73	14.00	2.86	17,249
*JETON	U	41	1,942 x 3.33 = 6370	1913	0.72	13.50	2.[illegible]	18,855
BKG	V	42	29	–	2.22			
Std 1/25,000	W	43	10,540	[illegible]511	0.76	15.01	2.66	27,959
1/25,000 ✡	W'	109	10,485	10,456	0.73	14.00%	2.86	29,904

* Jeton only 0.6cc distilled H_2O from urine – so I added 1.4 cc distilled H_2O to equate all quenchings – The CPM of 0.6cc H_2O should be multiplied by 3.33 to bring it in line

DR MEYER'S CASES

5/27/63

RATIO

Case #	Bottle #	Hole #	CPM	CPM - BKg	RATIO	Eff	Quench correction Ratio (to bring all up to 40%)	CPM - BKg x QCF
822	L	32	6801	6772	.75	14.97	2.67	18081
32	A	21	10363	10,334	.76	15.01	2.66	27488
36	B	22	6746	6717	.76	15.01	2.66	17867
38	C	23	6227	6198	.76	15.01	2.66	16487
41	D	24	8187	8158	.75	14.97	2.67	21782
73	E	25	6170	6141	.75	14.97	2.67	16396
81	F	26	8044	8015	.75	14.97	2.67	21400
82	G	27	6681	6652	.76	15.01	2.66	17694
85	H	28	6213	6184	.74	14.94	2.68	16573
95	I	29	8738	8709	.73	14.00	2.86	24908
916	J	30	8017	7988	.76	15.01	2.66	21248
28	K	31	8737	8708	.75	14.97	2.67	23250
32	N	34	9875	9846	.74	14.94	2.68	26289
38	O	35	11742	11713	.74	14.94	2.68	31274
42	P	36	9490	9461	76	15.01	2.66	25166
59	Q	37	8136	8107	.75	14.97	2.67	21646
60	M	33	10336	10307	.75	14.97	2.67	27520
1007	R	38	6253	6224	.73	14.00	2.86	17801
1043	S	39	10128	10,099	.74	14.94	2.68	27066
1501	T	40	6060	6031	.73	14.00	2.86	17249
Jeton	U	41	1942 +333 6370	1913 6370	.72	13.50	2.96	18855
Bkg	V	42	29	—	2.22			
Std *	W	109	10,485	10456	.73	14.00	2.86	29904
Std	W	43	10540	10511	.76	15.01	2.66	27959

(2) DR. L. MEYERS SUBJECTS

Subject	Sex	Age	Wt. Kg	% Fat (2)	Wt. of fat in Kg.	Lean body wt (Kg)	HT. in x 2.54 cm
822	M	16	54.54	~~19.56~~ 0	[illegible]	43.98	160.0
832	F	24	46.36	19.82	9.19	37.17	147.3
836	M	30	56.36	0	0	56.36	163.8
838	M	30	66.13	6.24	4.13	62.00	168.6
841	F	30	66.81	48.82	32.31	34.50	163.8
873	M	44	61.36	0	0	61.36	175.3
881	M	30	68.63	30.39	20.86	47.77	165.1
882	M	29	54.77	− 5%	0	54.77	160.0
885	M	23	61.81	0.18	0.11	61.63	163.8
895	F	33	55.90	26.58	14.86	29.32	151.1
916	F	39	63.63	24.38	15.51	48.12	148.6
928	F	50	57.27	23.21	13.29	43.98	157.5
932	F	28	46.3	16.01	7.41	38.89	146.0
938	F	24	40.00	18.26	7.30	32.70	142.2
942	F	48	57.72	29.61	17.09	40.63	148.6
959	F	14	60.00	21.29	12.77	47.23	151.1
960	F	11	38.63	3.86	14.91	23.72	149.9
1007	M	52	71.36	19.54	13.94	57.42	163.8
1043	F	28	41.81	9.70	4.06	37.75	147.3
1501	M	30	66.81	11.29	7.54	59.27	162.6
Seton	M	30	63.18	14.21	8.98	54.20	165.1

(3)

Subject #	Ratio Std / Subject 1.654	R×25000 41,350 ~~32,150~~ ~~27,175~~	TBW in L 41.350 ~~32.150~~ ~~27.175~~	L×0.985 Liters converted to kg ~~40.150~~ ~~31.668~~	% H_2O Kg H_2O / Kg body wt ~~74.68~~ ~~58.06~~ ~~54.00~~	% Fat ① 100 − % H_2O / 0.72 ~~80.64~~ = 103%
~~828~~	~~1.886~~	~~27,175~~				
832	1.087	27,175	27.175	26.767	57.73	80.18
836	1.673	41,825		41.198	73.09	101.51
838	1.813	45,325		~~44.645~~	67.51	93.76
841	1.372	25,000		24.625	36.85	51.18
873	1.823	45,575		44.891	73.16	101.61
881	1.397	34,925		34.401	50.12	69.61
882	1.690	42,250		41.616	75.98	105.53
885	1.804	45,100		44.424	71.87	99.82
895	1.200	30000		29.550	52.86	73.42
916	1,407	35175		34.647	54.45	75.62
928	1.286	32150		31.668	55.29	76.79
~~939~~	1.137	28425		27.999	60.47	83.99
938	0.956	23900		23.542	58.85	81.74
942	1.188	29700		29.255	50.68	70.39
~~959~~	~~1.381~~	34525		34.007	56.67	78.71
~~960~~	1.086	27150		26.743	69.22	96.14
~~1007~~	1.679	41975		41.345	57.93	80.46
~~1043~~	1.104	27600		27.186	65.02	90.30
1501	1,733	43325		42.675	63.87	88.71
Jeton	1,585	39625		39.031	61.77	~~85.79~~

TITLE

~~[redacted] Method~~

#832 S 10,100 cpm in 2cc distilled H_2O

− 31 Bkg

(S-b) 10,069 cpm

+ int std (200λ) — of $\frac{1}{25}$ cc dose

T 19,056 cpm → this is corrected back to 2cc since the 200λ std have caused some quenching

T = 20,142

T-S = − 10,042 ← this activity is from the int std

The std is 2cc ~~[redacted]~~ int std + 200λ ~~water std~~ H_2O the counts corrected back to 2cc —

Std 10,408 cpm (all due to int std)

correction for quenching

std T 10,408 / subject T 10042 = 1.036.

(S-b) × 1.036 = 10,431 cpm

$\frac{\text{Std cts}}{\text{subject counts}} = \frac{10408}{10431} = 0.998$ × dilution factor of std.

0.998 × 25000 = 24950 cc = Total Body Water

Convert to Kg H_2O = 24.58 Kg

% H_2O = $\frac{24.58}{46.36}$ = 53.02

% Fat $100 - \frac{\%\ H_2O}{0.72} = 100 - 73.64 = 26.36$ %

Kg of Fat = 12.22 kg