

CREW LOG

157 3/4 157 1/2 - 185 1/2 x 2

Day 208 / UVM5-0-038.0

100 ml 077.0

~1400

75. at start of next. v

V → 150 ml 250, 146.3

1635

1805 252 ml 502 261.2

2050 145 ml 1047 320.0 245 @ start

2250 95 ml 742 350.

209 0710 8348 #482

± 0164

start 050.5 0146 coll-

0915 100 ml 046.0 - 0460 045.5 s

1055 155 " 285 045.5 - 058.1

1238 157 " 442 058.1 140.8

1416 195 " 637. 136.0 - ?

1550 118 755. 232.1 284.1

1650 77 832. 282.8 309.1

2020 88 920 342.2

2320 132 495.

0400 500? 606.5

0700 90 0750

632 after receive

Bag #146

H₂O Guns - date?

C 1872 1872

S 0546 585

P 657 657

Vol. H₂O Gun

Pit-

$$682 - 689 = 7$$

#1 - 16.1

2 16.1

3 16.0

Spt -

$$627 - 624 = 3$$

#1 15.8

2 15.8

3 15.7

Cdr-

$$1907 - 1903 = 4$$

14.6

14.8

14.6

29.6 14.8

44.0 14.4

Rd - 1001 c F. hold - 6.5 #

Blu " " " 6.55

210 Blu - 1003 12.1

Rd 1003 14.6

210 - LVMS

Start ~~40~~ 41 -

1430 ~~z~~ ~100 ml. - 101.

1350 ? 345 ml. 245 " 221.5

1710 535 190 " 301.0

2010 762 227 " 390.0

2155 930 168 " 461.0

0215 1145 215 " 585.

0415 1330 185 " (550) 625.

0545 1585 255 725

0645 1935 350 840

final p recirc. 845

Fecal bags

~~108.6~~ 100.86 104.00 FC1541

A- 7 min 0-2 hr 29 min

1 12 "

2 1:51

3 1:40

12
3:21

3:

4 1:40

8

3

R- 8

141

2.51

T- 7.38

5

211

PLT S/N 814 1002 Z hold. 6.7 #
 " 1001 " 9.9
 Wt Red 1002 " 6.6

Sample #

wt - 130.6

Bag # 0104 wt 495

SPT Wh - 1002 7.9 #

C Rd 1001 11.8

UVMS

St -	064	061
1400	155	098
1800	375.220	207
2020	517.142	265
0050	784.267	379
0205	974.190	455
0400	1094.120	509
0625	1559.465	725
1200-1899	340	

After Recirc 700

Sample bag 444 - 120.6 gm

" " 091-

Bag #2 0178

start 0129

152

222

ID	Meas. Wt.	Rec. Wt.
FD 1808	96.10	95.64
07	98.82	98.49
06	96.30	95.70
04 05	96.25	95.89
04	97.38	96.94
03	99.80	99.22
02	97.04	96.53
01	99.67	99.36
00	101.85	101.67
FC 1502	98.05	98.20
01	100.49	109.90
00	97.02	97.30
FD 1848	98.75	99.00
47	96.62	96.90

Scale ck. cal wt. 100. vs 100.1

95.0 95.08

90.0 90.08 + 90.00

211

Bag	Wts	#	Meas. Mass	Recorded Mass
		FC 1528	99.81	100.00
		27	98.68	98.70
		26	100.95	100.20
		24	100.30	100.30
		25	100.50	100.50
		23	100.60 ↺	100.32
		22	100.70 ↺	100.48
		21	101.32	100.20
		20	99.31	99.20
		1499	99.50	99.60
		98	100.82	101.20
		97	101.0	101.30
		96	98.28	98.90
		95	98.75	99.10
		94	99.65	99.80
		FD 1738	98.70	98.90
		37	99.00	99.25
		36	99.75	100.30?
		35	100.25	100.60
		34	99.28	99.50
		1857	98.48	98.80
		59	97.44	99.78 ✓
		58	97.25	97.70
		56	96.30	96.68
		55	97.10	97.40
		54	100.24	100.06
		53	98.06	98.40
		51	97.57	97.90

211

W. pos

Meas

1

2.6

total

2

2.5

13.4

3

2.5

"

4

2.6

2.68 gm

5

2.65

2.57 gm

Blw 001 E handle 6.5

Rd " " " 6.5

212

~~1650~~

285

1720

220

505

1800

195

700

1930

140

840.

2110

140

980.

2250

345

1325.

0345

237

1562.

0600

453

2015.

0925

4525

2440.

213

ml

1350

55

1700

240

1752

30 F

2100

265

2319

75

? 0530

~~0430~~

130

0400

175?

0630

305

0900

450

1200

200

Started new tube toothpaste - 57.2 gm.

After meal C in distress from
gas

214

1500	145	
1630	60	F 205
1900	115	F 320
2310	210	530
0140	320	850
0425	155	1005
0545	90	1095
0600	115	1210
0020	575	1785
1200	150	1935

$$5 \times 150 = 750$$

$$5 \times 175 = 875 \quad 1625$$

$$5 \times 200 = 1000 \quad 2625$$

$$5 \times 225 = 1125 \quad 3750$$

$$5 \times 250 = 1250 \quad 5000$$

$$5 \times 275 = 1375 \quad 6375$$

$$5 \times 300 = 1500 \quad 7875$$

215

10% sample - 153 tot. Dial

0 - 032

1345 132 0 - 079.5

1430 155 28.7 156.0

1645 235 522 270.0

2 voids 0200 375 897 409.0

0500 75 972 439.

0750 420 1392 582

1205 210 1602 688

5 465 125.48 6.650 VDR after
B - 040 recirc.

Monark 70 RPM

150 $\rightarrow$ 250 in 25 W/min Ds.
42 mins 250 W-

216

UVM5 bag #141 Zero 054

ml.

1930 290 160 Zero 048.5

2122 705 415 316

0420 1060 355 448

0730 1375 315 563

1130 } ~~255~~

1200 } 1645 270 683

after recirc 670

#477 Sample 125.65 gm.

Bottle tare

115.45

145.12 + 2.9 ml

HR @ end 10,500 w/m +
+4 ~~148~~ 148

New tube toothpaste - old one
misplaced 56.3 gm.

217

Bag 00132

Zero 056

1500 270 2.31 173

1600 270 2.57 278

2000 210 1.37 363

Sam. 425 2330 200 2.35 448

123.5 gm. 0425 270 60^{2.21} 570

802 0530 1775 495 + 60 2.16 826

1150 2190 415 0-040

Bag# 0162 2.5#

2.47 224

Sample# 508

2.25 208 RC.

117.2

Astrand - bicycle eff = 20-25%

$$+ 1 W = 1.433 \times 10^{-2} \text{ Cal./min.}$$

$$\text{for } 10 \times 10^3 \text{ w/min} = \frac{4 \times 10^4}{1.433 \times 10^{-2}}$$

$$= 5.732 \times 10^2$$

$$6 \times 10^3 \text{ Kcal} \approx 1 \text{ Kg. fat tissue}$$

218

total 1547

Bag 0083 zero $\uparrow$ $\Delta\%$ 032

1800 305 2.13 175

1920 212 2.23 265

2100 345 2.40 409

0035 190 2.43 487

0310 Δ/Δ 305 2.47 6100500 2.31 190 692 692 - 684~~#000~~ sample #448 162.

		80	0052.5
1000 {	Δ/Δ	<u>480</u>	
	2.40	560	286-

Total 2107

Drinez holder 001 13.3 + 12.9

Exercise - Monark - $28 \times 70 = 260 \times 40 = 10,400$ Warmup $8 \times 150 = \frac{1,200}{11,600}$

205 1/2 prior to exercise 400 @ 260 W

203 after " $\downarrow$ 70 RPMHR @ $15 \times 30 + 40 = 4 \times 39 = 156 \pm 4$ Crip 17 min @ 150 w HR - $4 \times 37 = 148 \pm 4$ 70 $4 \times 37 = 148 \pm 4$ 18 $4 \times 38 = 152 \pm 4$

M-133 slight burning at temporal + forehead sites - initially started at ~ 0500 + awake 'til 0600 when D/C for ~ 1 hr. until Gls were over. Reconnected + awake for ~ 1/2 hr.

Day 5 menu 2 3 sugar cookies

219

Bag 283 A/A 050

	2.5	1515	318	198
523		1805	205	289
743		2152	220	370
943		0140	200	451

500

1.72

45

767

2.61

1203

265

858.5

Sample - 120.7g - #480

12.75

11.25

Calib. of Flasks

2° set

Small into large

50	497
+ 50	997
+ 50	1497
+ 50	1997
50	2497
50	2997

1° set

50	49.7
100	100
150	149.5
200	199.7

70 x 225

15750

70 RPM

3 x 250

750

3 x 275

825

2 x 300

600

1 x 400+

400

18,325

220 10%

	0	062	A/A
#175	283-1=2547165		2.476
	305-1=2745297		2.083
	455-1=4095464		2.449
	425-1=3825623		2.409
167.8	210-1=189709.5		2.185

12.6
155.2

6425 p recirc-

sample #439 122.85-13.1
10% " 286.76-119.4=167.36

#2 0112

start 105

215 ~140

after recirc[↑]

9.9

11.1

$$\text{Warmup} - 5 \times 150 + = 750$$

$$10 \times 275 = 2750$$

$$20 \times 250 = 5000$$

$$30 \times 225 = 6750$$

$$\underline{15,250}$$

221

* 0120

$\frac{4}{A}$ Zero 042

1830 $\frac{2.222}{2.222}$ 200 132

0210 $\frac{2.172}{2.172}$ 265 254

0410 $\frac{2.447}{2.447}$ 150

0745 $\downarrow$ 545 $\frac{695}{695}$ 538

1200 160

1320

$\bar{p}$ recirc 578

Sample #450 165.5 gm.

12.6

152.9

12.3

10.9

Exercise

105 150 W →

750

1:30 X 225 W

20,250

90

21,000

20,250

86 KW

3 #

222

.44314

1715 total

#168

A/D

0 -

055

1611

2325

400

227

1805

2.5

~~344~~

255

329

2100

2.47

430

503

0115

2.23

275

626

0410

1.860

160

712

0700

1.893

195

815

2.256

precirc -

774

Sample #422

179.08

12.6Finished 1st whole toothpaste

222-213 =

57.2

9

tare =

/day

#0174

1230

255

159

Wouldn't recirc.

Replaced shaver head

11.6

11.6

New tube T.P. 55 gms

223

T-003

F-8 1322 Ward Rm. LiOH on

25 " " " "

30 Over LiOH " "

33 " " " "

	1	2	3	Filt 8	
24 22	11	3	3		
25	16	3	2		
30	9	1	0		
35	8	0	1		
20 43	11	0	2	Wd	LiOH
45	11	0	0	Rm	Off

FD { Flap, Green tape, w/3 - 5.0
 1848 { Total 10.6 ← 5.5

48	43	3	3	
50	2322	4403	2	LiOH
	16	0	3	
Taped	2	0	0	
lolet	6	0	0	

223

Bag # 0194	Zero	053
.429387 2.619 1540	220	137
2.102 0200	370	313
2.458 0400	145	372
2.318 0900	320	510
2.464 1205	170	579
	<u>1225</u>	

Sam. # 487 1844.5 ^{gm} recirc. 558
12.6

Avg. Sample	<u>171.8 gm-</u>	171.8
bag wt.	166.5	166.5
Filled out-	<u>152.9</u>	152.9
side of	<u>491.2</u>	<u>155.2</u>
cabinet-	163.7	<u>161.6</u>

9.25
 12.00

1,977 gm / Liter

452 gm / #

4.37×10^{-3} # / Liter

7.1 # = 16.23×10^3 L

or $67.6 \text{ L} / \frac{\text{hr}}{24\text{hr}} = 2.775 \text{ L/min}$ occupied

Assume

2.7 L/min @ HR 140

2-3 ml
Kgm

90

Wt. inside strip 2.56

Flap covers 4.98

Ergometer

3 min @ 150	450
3 " " 175	525
23 " " 200	4600
8 " " 225	1800
35 " " 250	8750
	16125

Sample Tare WTs -

#495

13.1 gm.

12.9

12.6

12.8

12.6

12.6

224

.4 3764 Δ/Δ

200 Zero 052

2.53 1607 195 133+131

2.14 1920 175 212.5

3.13 2015 235 310.0

#

~~SE~~

0124 2.27 2215 460 512.

4-8.5 2.32 0200 130 568

2.39 0400 175 641

Inside box - 2.13 0600 405 831

Sample # 437

1780 ml.

128.4 Gm.

$\bar{p}$ recirc. 808

12.6

115.8

2nd bag

Zero 048

110

1200

485 ml. 260

1-9.0

232

S # 449

$\bar{p}$ rec- 232

125.8

12.6

113.2

11-1.4

C - 96.5 °F

B - 97.

T - 96.3

139

11.4

Grn Tapes Bag # FD1802

All less Flap + top most 2.8 gm

CO₂ monitor passed in

+ checked after 15 mins.

settled on 3 mm Hg - was 5 mm.
next morning

Exercise: Scale was corrected

2 M @ 150 300

2 M @ 175 350

2 M @ 200 400

70 ~~45~~ M @ 225 1575000

16750

225

A_t/A_r	Δ/Δ		Zero	38.5
14.29	3.22	1520	95	68.0
42.273	2.63	1830	95	131.0
	2.21	2010	175	210.0
	2.34	0045	220	304.0
	2.53	0455	190	379.0
00087	2.54	1100	345	
wt. 3 - 2.2		1200(?)	90	550.0
			1210✓	

$\bar{p}$ recit. 525.

Sample Bag # 507

133.0

12.8 gm

115

12-7

Tape wts. from FD 1803

All less top ring + Flap - 2.9

Flap - 5.0

Reweight(?) of fecal bags.

	Meas.	Recorded
FD 1790	97.87	99.90
88	97.00	99.10
87	96.4	97.30
86	96.18	99.70
85	95.25	95.65
84	97.78	100.03
83	97.28	99.58
1858	96.82	97.10
49	99.32	99.48
31	95.32	95.11
30	96.41	96.15
29	99.54	99.45
28	95.65	95.36
27	97.03	96.54
25	96.70	98.55
23		

Temp. on UTRA - SCI 1720 68.5 ext - 71.4

1730 72.2 ext. 71.1

Crip Temp - 97.6 1730

Bo's " 98.1 "

226

2 crs 038

Bag 129	1500	625	75 ml	050
	1935	193	305 "	208
	2100	240	245 "	310
4 th 5.002	2315	253	355 "	450
	0120	240	300 "	575
	0330	224	305 "	711
	0510	209	155 "	785

765

± 431 129.23

Tare 12.63

#2	0740	450	258
Bag-158	08100	455	
	01200	55	468

#495-125.35

precirc. 442

C-11 #2.

B-9 4

227

Asp	38.3	38.7	38.35	g m.
	<u>26.9</u>	<u>26.9</u>	<u>26.9</u>	
	11.4	11.8	11.45	g m.
	10.76	11.14	10.81	m/l.

Exercise -

2 X 150 -	300
2 X 175 -	350
2 X 200 -	400
15 X 250	3750
47 X 225	<u>10575</u>
	15,375

SG blood 1.059
38.62

H₂O Test, ASP 27.0
12.62

Exercise 7 X 300 = 2100

10 X 200 = 2000

1 X 100 = 100

1 X 200 = 200

1 X 250 = 250

4650

227

	10% A/A	Zero	474052
# 121	2.57 1910	215-1 = 193.5	135.5
	2.31 0210	350-1 = 315	272.0
	2.48 0200	400-1 = 360	417.0
	2.91	140-1 = 126	465.0

Sample# 118.08
479 12.75

10% 231.66
11 9.34
112.32
Corr. 015 110.66

12 15/16
10 10/16

228

Exercise 3 min X 150 450

4 min X 200 800

3 " " 225 775

2 - 120 16 " " 225 3600

4 - 128 2 " " 250 500

6 - 122 6125

8 - 124 5400

10 - 124 11525

12 - 130

14 - 124

16 124

18 124

20 125

22 130

24 124

26 126

28 122

30 122

5

40

45

50

55

60

180W

225W

228

Bag 220-4[#]202 Zero 046

prior to recirc. 741

Sample #429

127.4

~~pre~~

Gr Tape FD 1830 10.25 gm.

" 31 10.47 "

" 38 10.40

" 17.83 10.43

|| Pea soup 5x ||

" 17.87 10.48

11 # 10 02 1805 10.42

10 13

229

Noise meter

On bunk - lying

A - 58 db.

Lin - 72-75 db.

31.5 N 70-74

63 66

125 60

250 56

500 56

1000 55

2K 44

↓ less than

27.5/05.0

Crip heart Rate 150w

~~12~~ 12-140

25-4x38 = 152

UVM3

Press 1.7" H₂O

Δ " .06 "

.275 ~ CFM

5.61 .05

232

229

Zero

32.5

Leak (?)

Sample 438

624.

Tare wt.

144.60

precise. 60%.

bladder -

126.2

#102

11 1/2 oz

10#14oz

8# 9oz

SLE 90.150W 70RPM

5 X 150 = 750

3 120

5 X 175 = 825

5 118

5 X 200 = 1000

10 112

30 X 225 = 6750

15 112

HR 140-144 9325

1820 110

BPM

25 112

9325

25 118

3806 W/M

Monark 150W 70RPM

13131

3

6625

5 116

19756

10 114

15 118

25 X 150 =

3750

20 114

25 112

72 175 W/M 875

0 122

200 5200 1000

5 136

0 138

8
8
8

152

3+ min @ 300 W/M = 1000

230

Poly B E Mono L

|||| 1

1

||||| ||

|||

|||| ||

|||| ||

|||| 1

|||| ||

|||| 1

$$5 \times 150 = 750$$

$$5 \times 175 = 875$$

$$5 \times 200 = 1000$$

$$65 \times 225 = \underline{14625}$$

$$17250$$

230

S. Bag # 432-11672

Zero 052

1283 gm.

735

 $\bar{p}$ recirc. 720

Bladder 198

4# 1/2 oz.

3 5.5, 3 + 375 $\rightarrow$ 1491,

Zero 040

 $\sim$ 230 ml. 141No sample or
recirc.

1# 4 oz.

Hgb - Rye ~~11.8~~

L - 13.6

13.0

14.0

13.1

14.0

3.5

13.2

L - 13.8

121

2° 13.2

13.7

13.1

13.4

13.2

13.13

13.35

 $\bar{c}$ glasses 13.6

13.0

12.8

76875

9# 7 1/2 oz $\rightarrow$ 1302.

14.6 Tare WT.

12# 8 " $\rightarrow$ 2653.

TPaste - 58.6g

New tube = 58.6

$$5M \times 150 = 750$$

$$5M \times 175 = 875$$

$$5M \times 200 = 1000$$

$$5M \times 225 = 1125$$

$$" \times 250 = 1250$$

$$" \times 275 = 1375$$

$$\underline{7375}$$

$$5 \times 150 = 750$$

$$5 \times 175 = 875$$

$$5 \times 200 = 1000$$

$$\underline{2625}$$

$$50 \times 225 = 11250$$

$$3 \times 300 = 900$$

$$\underline{14775}$$

$$\underline{7375}$$

$$22,140$$

231

Bag # 0094

3 # 302

↓

2.5 # → 1115.

Zero 040

$\bar{p}$ recir. 525

Sample 131.86 gm
460

B 10 # 102 4375 → 1733.

C 11 # 14502 90625 → 2388

Total wt. green tape

FD1806 ~~95~~ 10.31

? 10.35

? 10.35

46 10.50

5X150 - 750

5X175 - 875

5X200 - 1000

5X225 - 1125

5X250 - 1250

5X275 1375

7175

5X150 - 750

5X175 - 875

5X200 - 1000

45X225 - 10125

10850

7175

19025

232

bag # 116 - 4# 1 1/2 oz.

Zero

042

735

p recirc. 708

Sample # 46 1 29.45

T 1306

10# 6 1/2 oz

2100

$$1\text{ gm} = 2.22046 \times 10^{-3} \text{ \#}$$

$$1\text{ gm} = 3.55264 \times 10^{-2} \text{ oz}$$

Wipes -	074	073	
Tare	5.02	5.02	+ 5 1/2.02
#065	2#0.02	= 1#11.02	= 27=760
066	13.02	= 8.02	
068	1#7.02	= 1#2.02	= 18
077	2#2.02	= 1#13.02	= 29
073	1#4 1/2 "	15 1/2.02	
007	1#12 "	1#7.02	= 23
			<u>235</u>
			12.32

Wt 16 wipes - 44.05 gm
 As = 2.753 gm 2.715189873

gm/oz. = 28.14808 28.349523

1233

28.14808 g

13.02 - 5.02 = 8.02

45 x 225 10,125

5 x 250 1,250

5 x 150 750

" 175 875

200 1000

14000

2625

233

Bag #160

Zero = 025

Bag separated from c.f. outlet &
~.8 L. spill-

T 9# 2 oz

C 12# 9 1/2" .59375 → 2695

B 10# 15 1/2" .96875 → 1970

3391(16)

44

Exercise

Arms - 50-75 W ~ 400 W

$$\begin{array}{r} 100 W \quad \sim 600'' \\ \hline 1045 \end{array}$$

Legs

$$70 \text{ RPM} \quad 5 \times 150 - \quad - \quad 750$$

$$\text{Menark} \quad 5 \times 175 - \quad 875$$

$$5 \times 200 - \quad 1000$$

$$5 \times 225 - \quad 1225$$

$$5 \times 250 - \quad 1250$$

$$5 \times 275 - \quad \underline{1375}$$

$$6620,$$

$$45 \times 225 \quad 10,125$$

$$5 \times 150 \quad 750$$

$$" \times 175 \quad 875$$

$$" \times 225 \quad \underline{1000}$$

$$12,750$$

$$\underline{6620}$$

$$19,370$$

235

T- 10# 15 1/2 oz .36875 - 197 ml.

C- 11# 15 oz 2402 ml.

B- 10# 2 1/2 oz .15625 → 1608.

After filter change UVMS
meas. .05 "ΔP + 6.8 " static press-
" = H₂O

263

T-8-13.5

B 8-14.5

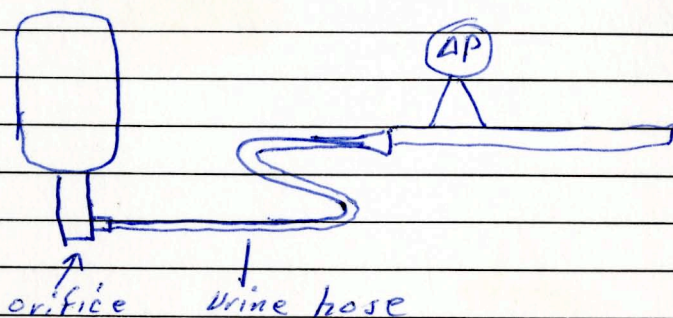
C- 12-0

Centrifuge - loads up when blower
is on -

No load 30

Centri- 30.

Removed Vacuum cleaner + Flow restricter



orifice open .08 .09

.29 ft³/min .327

.14

236

Zero

039

Bladder #101

1500

80 mt

bladder separated @ side
passed out centrifuge -

Exercise -

5 X 150 - 750

5 X 175 875

5 X 200 1000

5 X 225 1225

3850

Arms - 1 min 50

" 75

1 " 125

X min 100

Total 1090
4940

Temp = 77°F

5 X 150 750

5 X 175 875

5 X 200 1000

45 X 225 10,125

17,690

HR = 140 @ 20 min
= 142 @ 40 min

237

T- 8[#] 7 oz. + ~ 200 ml

B- 8[#] 11⁶⁸⁷⁵ oz. 953.

C- 11[#] 8 oz. 2207.

Exercise -

Arms

50 158 100

11 70

5. 150

750

5. 175

875

5. 200

1000

45 x 225

10 125

13920

7

Exercise

Arms

450

\$ 150

750

\$ 175

875

\$ 200

1000

60' 225

13500

15,675

238

B # 173

Zero 040

.219

1530

112

C - 11 $\downarrow$ 3 $\frac{1}{2}$ $\rightarrow$ 2082.

Final

486

T - 8th 11 $\frac{1}{2}$ $\rightarrow$ 967

p. recirc. 465

B - 9th 3 $\frac{1}{2}$ $\rightarrow$ 1190

2# 1302

S - # 511

Gr - 127.43

T - 13.32g

O₂

CO₂ RH₄ $\frac{V}{E}$

N.T. 1 - 0.264 0.254 0.96 13.4

1 ~~2~~ - 1.277 1.012 0.792 39.3

2 ~~3~~ - 2.098 1.986 .947 70.5

4 - 2.712 3.034 1.119 114.4

B R - .433 .226 .522 11.1

1.063 0.85 .79 30.8

1.638 1.267 .835 44.9

2.294 1.937 .844 60.0

Douglas Bags

O_2 CO_2 Q $\dot{V}_E$

Ba-Cal

Rest		.347	.313	.902	12.1
60	1	1.097	.833	.759	28.1
120	2	1.598	1.383	.865	42.0
180	3	2.068	2.049	.99	60.3
		3.025	2.686	.887	99.3

W.T. Cal

Rest		3.51	3.92	1.116	18.4
100	1	1.37	1.143	.834	43.6
180	2	2.325	2.198	.945	81.8
260	3	3.539	3.145	.888	125.3
	3'				

Work	5.150	750
	5.175	875
10	10 200	2000
	10.225	2250
	5.250	1250
		<u>7125</u>

239

Bag #093

Zero

046

2#1202-11 = 2#102

490

~50cc, air

470

C- 10#⁶²⁵1002, → 1817.

T- 320.

B- 9#002, → 1092

5#435- 131g

Finished #3 Toothpaste Tare 14.38

#4 " gross 57.52

Bag Tare ~1102

watch failed completely

$$M = 1.58 \cdot 064355 \tau^2 - 622.477916$$

240

#147 Zero - 031

S^o 490 130.3

- 848

13 gm.

precirc. 754

C - 12[#] 602 → 2653.

B - 9[#] 902 → 1343

F.

#062 Zero 068

#147

427

4[#] 09 1/2 02

precirc.

2^o wouldn't recirc

#062

wt =

5[#]
2 412 12.75 g

241 .5625

B - 916 902 } URINE 1343.

C - 1116 202 } 2040.
.125

Collins Spirometer

	#1	#2	#3
Spt -	475-3	492-3	472-3
"	493-3	483.	

Pit. 483 -5 475 -5

Crip 400 -5 380 -5 400 -5
Temp - 67.8.

Cal. e Pump

	5.	1.5	2.5	3.5	3.5
2m .03	.03	.03	.03	.05	0.5
.57	1.56	2.5	3.45		3.4 slow
1.05	2.99	4.93	.05		3.2 very slow
1.55	4.40		3.88	Fast	3.55 13 sec stroke
2.07	5.80		.05		3.5 5 " "
2.60			3.33	slow	3.55 3 " "
3.18			.05		3.85 1 " "
3.60			3.80	Fast	
4.08					
4.55					

5.00 ← 5.05

see next page back

241

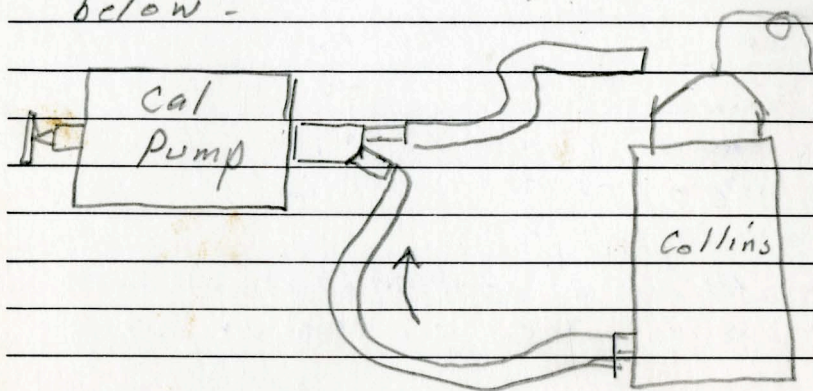
Exercise:

S.L. ergom-

30 min @ 80 RPM (7@300W) 6655

" 75- " " (3@ ") 8045

The NASA valve inlet is pulled open by neg. press. developed by the inertia of the gas column at high rates - This was confirmed by connecting the spirometer as below -



Stroke Vol. Time Error Vol.

				3.40
		3.5	1 sec	3.20
W.T.	2 gravity	"	"	317-300
Valv	normal to "	"	"	270-297
	"	"	"	265-250
	"	"	2	240-235
	"	"	7	232-225
PIT	"	"	1	220
Vlv.			1	215-245
	"	"	1	240-230
	"	"	1	220-210
	"	"	1	350-228
	"	"	1	225

Spiro-Contd

FEV

$$5.05 \times 1.15 = 5.81$$

W.T. 4.82 5.07 5.10 5.10 - .05

BD 4.45 4.68 4.95 4.80 4.93

Crip - 4.48 4.45 ↓ 4.90 ↓ 4.89

5.09 ← 4.43 ← 4.40 5.635 5.62

$$28,317 \text{ cm}^3 = 1 \text{ ft}^3$$

$$24 \text{ L/min}$$

Using Factor of 1.2: $5.05 \cdot 1.2 = 6.06$

$$4.43 \cdot 1.2 = 5.32 \quad 4.4 \cdot 1.2 = 5.28 \quad 4.9 \cdot 1.2 = 5.88$$

$$4.89 \cdot 1.2 = 5.868$$

Comparison of BP Coffs.

7022099 (C11592)

7099524

20

20.5

40

40

60

60

80

80

100

100

120

120

140

140

160

140.5

180

180.5

200

201.

4.95

Fecal Bags

S. N.	Meas. Wt.	Indic. Wt.
FD1824	96.30	96.00
23	97.48	97.06
21	95.73	95.52
20	95.95	95.50
19	97.65	97.37
18	98.00	97.59
17	96.70	96.23
16	96.85	96.54
1781	97.45	97.17
80	96.00	95.83
79	96.90	96.84

New Soap Bar

Sent out Elec. Ans Sheet - 1. #18 incl M-1, 2103pi

Exercise: 8550 f.L. ~ 275 2m @ 300w

Monark 10x150 1500

10 x 175 1750

35 x 200 7000

5 x 225 1125

500w 500 arms @ 100w

20425

HR @ ~ ~~27~~ 27 156 BPM

2109.
4.737

242

C - 11[#] 4^{1/2} oz ~~4.73~~ Zero - 58

T - 11[#] 4²⁵ 4.7 → 2096.

B - 9[#] 9 oz 3.35 → 1494.
.56 → 2096.

B[#] 486 1751 220 - 10% — 145

0100 245 " 238

0340 110 277

0545 ~~445~~ 455 453

0800 295 1354.5 571

1200 180 586

Est. 50-100 ml. } p recirc. 585
A.V. ↓

S - [#] 478 134.2

T 12.8 1505

10% Sam'l Gross 272.0

Tare + 22 ml. 142.55

B - 9[#] 2 oz.

C - 13[#] 6^{1/2} "

Exercise - S.L. ergom. 8742 W/M/30min
(~ 25 min @ 300 W) 156 BPM

Monark - 160 W · 10 M 1600
10342

243

#474

Zero

078

6[#] 2 1/2 oz.

348

Added extra liquid

5[#] 514

VDR sticks -

2° UVMS collection hose failed
at Funnel-hose junction

3° couldn't be put on

4° " " " "

C. 12[#] 10 oz

B. 11[#] 2 1/2 oz

Heart rates from earpiece = 160 vs 200+ palp.
on Bobko

Exer:

Arms, last min 150 W. - 525 W.M.

S.L. ergometer 7,682

30 min - 15 @ 250

HR: 140 @ 10 min

+ 143 @ 20 "

5 min @ 275 HR - 152

5 " @ 300 - HR - 148(?)

Monark

35 M x 200 W

7,000

15,207

244

T.W. # 493 - 11.502.

Zero

42

VDR hung —

S # 433

493

Bag leaked at ferrule -
lost most of sample -

2 old style hoses wouldn't go on inlet

C - 11 # 7 1/2 oz.

B - 10 # 4 oz.

Ear piece HR - 197 palp - Bo 250 w
Ind. " - 165 after readjustment
was 110

	200	vs	163	ear piece
200 w -	180	"	160	"
	168	"	145	"

Exercise -

Mon. Warmup - ~5 min ~200 w 1000

S.L. 300 w

Unit Failed @ 29:20 8806

Monark 30 min @ 150 w 4500

14306

245

~~Zero~~ ~~036~~

~~+425~~ ~~102~~

B-² 444

S² 424

T. 4² 14 1/2

C-14² 102

B-11²

Blood electrolytes

Glucose	84	98 ± 7
Chol	134	188 ± 37
BUN	16	17.7 ± 3.3
uric	5.4	6.0 ± 1.6
AspK.ph.	16	21.4 ± 5
SGOT	14	16 ± 5
LDH	235	185 ± 50
Creat	1.4	
Na	139	
K	3.9	$4.2 \pm .4$
Ca	1.01	$.96 \pm .6$
Mg	2.3	$2.2 \pm .3$

246

S #430

zero

036

134.3 gm

Bladder # 490

T - 6 #702

C - 11 #8 1/202

B - 11 #9 1/2 "

Blue - 6 #9 1/202 Tare

Exer:

S.L. organ.

Arms

50, 75, 100, 150

1308

Monark

5.150

750

5.175

875

5.200

1000

40.225

9000

12933

1308

11,625

247

B# 460 (3)

zero 095

overflow

S# 509 - 125.34 - T 13.22

C - 13#002.

T - 10#15 oz.

B - 5#10 oz

Finished Toothpaste - Old tare 14.8g.

New Gross 58.7g.

New style funnel tare at support -

248 - 0045 p.m. 05

V.C.B - 4.5 - 4.45

C 4.35 4.40

T 4.95 4.90

Exer.

S.L. 1384 WM - Arms 75-150 w/m

Mark 5.150 750

5.175 875

5.200 1000

5.250 3750

5.275 1375

1384

9,134

7750

S.L.

S

530 g.m

248

S# 474	Zero		45.5
123.65	0330 ¹⁵	283-10%	152.0
B# 115	0330 ¹⁰	210- "	238.0
	1855	325- "	356.0
10% bottle tare	0100	340- "	489.0
113.78g.	0330	205 "	566.0
G. 323.3	0600	300 "	678.0
	1000	400 "	760.0

$\bar{p}$ recirc 758.0

zero 052

#2 - 105 ~ 1100 280 - 164

C- 12# 8oz

B- 10# 8 1/2 oz

T-

1530 -

V.C.

5.28

5.304

- .05

C - 4.35

4.40

4.42

Amb -

B - 4.82

4.75

4.82 - 5.784

4.97[#]

T - 5.08

5.06

5.13

68.5°F

6.096

6.156

X 1.2 (sawin)

Exercise -

1250	5 min warm up	1000
6	30 min 250 w/m	7500
7500	5 L Arms	1750

249 *

Zero

046

748

$\bar{p}$ recirc.

748

S# 442 - 128.07

C - 12# 8oz.

B - 11#

T - 4# 9oz. #139

Funnel had small leak - new -
clip wouldn't work

Exercise

Monark 200.5 1000

35.250 8750

S.L. arms 1004125 x2 1428

11,178

250

zero

048

New Bag split at rear - interference ~500 ml. spill

Replaced $\bar{e}$ new Flt. bag zero 070

S# 491 -

pre $\bar{p}$ recirc 495

$\bar{p}$ " 460

C-11^{II} 15 1/2 oz.

B-10^{II} 1/2 oz

T-#514 - 2# 14 1/2 oz.

sample wouldn't completely fill

1- 157.467950

621.914285

Indic. Temp -

2, 157.595043

621.559152

Act -

3- 157.554116

621.775263

Monark - 40 x 250 w/m

.0006

251

Bag 510

zero - 043

S # 466 - 102.75

520

$\bar{p}$ recirc 628

C - 14# 3 1/2 oz

B - 11# 1 "

T - 3# 10 "

251

Bag 510

zero - 043

S # 466 - 102.75

520

$\bar{p}$ recirc 628

C - 14# 3 1/2 oz

B - 11# 1 "

T - 3# 10 "

Mon Ex - $40 M \times 250 WM = 10^4$

S.L. Arms to 200 WM

2.1×10^3

~~10~~ 140 HR

Full box wipes 1# 9 1/2 oz. 2 ends

1# 9 oz. 3 "

Empty box

5 1/2 oz.

252

#428 12134 gm

Zero -

040

B #471

1410

105 ml

073

1500

285 "

219

1555 (2) 165 "

289

over Fill

C - 13#0

B - 11#3 oz.

T - 5#5 oz.

253

B# 470

S# 473 - 132.88

overfill

C - 11# $3\frac{1}{2}$ oz.

B - 9# 15 oz.

T - 5# 13 oz.

254

Installed #507 Zero ml. 055

B# 488 125.85 1500 95 064

T- 12.81 1835 388 252

2040 498 461

2145 290 586

Wouldn't recirc 2240 295 721

0200 280 855

Crip #1 bag 5# 02 - ~~02~~ p recirc 830

#182 - sample 489 108.5 4# 8 02

Net - 4.718 #

4 23.5 #2

11.5

SN - 219 Tare 11.526

2^o Bag 487

Zero ml. 095

0310 130 104

5# 456 0430 200 192

144.91 - 0640 285 315

~ 0350 510 538

~ 1200 250 660

p recirc. 635

CRIP URINE - SAMPLE 74.0 gm

B# 219-2 #8 1/207

B# - 1013 02.

Exer. Mon - 30 x 225 6750

30 x 225 6750

10 x 250 2500

16000

255

Bag #504	Zero	ML-10%	048 044
5# 446 3#1402	1900	171 -	106.5
	2000	250 } 450 -	
Tare 10% bottle	2200	200	
278.8	0645	225 -	
119.43	0545	120 -	
next pg. for	0700	520 -	604
Rest of this	1000		
days wts.	1200	65	642
Crips Samples	p recirc would not recirc -		
# 464	28.73		
# 493	65.2		

255 CONT

URINE

CRIPPEN #467 2# 11 oz

#103 4# 3 1/2 oz

B- 10# 1 1/2 oz

256

B# 511

4# 15 1/2 oz

VOR 856

Crip B# 451 - 4# 1 oz, B# 475 - 1# 15 oz

① 5-453 - 121.3

② 5-446 - 126.2

THORNTON B# 511

5-433 - 135.65

BO - 9# 130z

257

CRIP # 463

Bill # 134

Vital Cap - X1.202

CRIP - 461 - .05

4.62

Bo 4.97

4.85

WT 465

466

Exercise - 171 + 450 w/m

Mon. - 50 x 225 11,250

S.L. Arms 125 w/m - 6,800

~~18,050~~

11,930

S.L. URINE Sys TIME

sample + new bag 20 min

Bag change (avg) - 10 min

30 min

Bag # 134

257

	Zero		052
5 th 55 505-	1530	150 ml.	101
10 T.1	1880	195 "	190
	2000	365 "	349
	0140	155 "	420
	0600 ~	150 "	492
	1200 ~	520	662

CRIP BAG # 465 - 3# 9.5^{oz} p rec. 660
#512 - 3# 3 1/2^{oz}

CRIP-SAMP BAG 481 - 101.3 gm

S # 454 = 80.45

Ba - 10# 9 oz

T - 3# 15 1/2 oz

Ø

C - 72,2	2,02	25,68	3,407
72,4	1,72	25,83	3,436

258

Bag # ~~318~~-180^v

Zero MI. 055

1600 260 138

1800 235 246

2100 515 458

0240 415 6361425T-Can 7[#]14 1/2 oz (3 clip)B- " 11[#]10 oz

Unm Time

A.M. 30 min

Spill 55 MIN

CRIPPLE

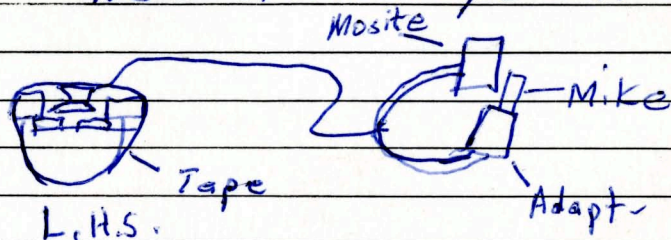
BAG # 503 5[#]10z

BAG #

516 - 1[#]13 ozSAMPLE # ⁴⁴¹132.9SAMPLE # ⁴⁴⁵71.5

THORNTON (SPILL)

258 Stethoscope Cal-



wouldnt fit lower level mike -
Used upstairs & downstairs pre Amp

Freq.	Bell	Diaphragm	Background-Dia	
34	84	36-38	47-48	34-36
63	92	46?	54-56	42
125	88.7	62.5	47-48	43-44
250	78.6	63.7	34	33
500	82.4	74.4	25	27
1000	70.0	70.0	11	14.5
2000	78.0	70.0 69.5	9	9.

Ergom. 171 run #8

Start run - HR 99 End - 102 (5 bags)

259

URINE TIME / (CONT entry)

A.M. - 10 min

EVEN - 5 min

Crippen Bag 494 5¹⁰ 10 oz

SAMPLE #472 88.6 gm

BAG 477

SAMPLE 497 79.4

Bo 10/6 20g

Bill ~~10/6~~ 10/6 13 oz

M171 Special Run #8

CABIN AIR PORT	%O ₂	%H ₂ O	%CO ₂	GAS PRESS
(0) BAG 1	48.75	7.67	19.41	4.655
(5) BAG 2	56.08	7.44	12.51	4.658
(10) BAG 3	59.16	7.35	9.38	4.558
(20) BAG 4	61.55	8.32	6.80	4.569
(40) BAG 5	62.33	8.93	5.31	4.541

EXHAUST PORT

BAG 1	48.39	8.39	19.13	4.670
BAG 2	55.97	7.43	12.57	4.678
BAG 3	58.86	7.58	9.47	4.673
BAG 4	60.98	9.02	6.84	4.675
BAG 5	62.07	9.06	5.43	4.679

Response Time

CO₂ Mon

start 1 mm Hg. - 0

1.5 " 5 min

2 " 6.5 73°F

2.25 " 9.5 "

3.0 14.5 min

Blood Wt

MMD Temp Rise

Na 140 0 74-5

K 4.1 1 "

Ca 9.4 2 75

Mg 2.2 3 "

Cl 4 "

Glucose 86 5 75

Chol 131 6 75

BUN 17 7 75-76

UA 5.7 8 "

AlkP 13 9 "

Creat 6.1 ^{Rwr.} _{off} → 7.10 "

15 "

Replacement tissues

63 tissues wt 176.3 gm.

1" = 2.7555

Box 191

2200 by wt

Tissue + Box 1#76 oz

4.0 "

1.225 #

~~1.225~~

Crip - 13[#]5oz.

W.T. - 10[#]0-

Bo - 11[#]10oz

261

C - 12[#] 6 oz.

B - 11[#] 10 oz.

T - 10[#] 2 oz.

Vital Cap

5.02 PSIA + 88.5

Crip.

4.6 4.75 4.778^{↓?}

Bo. 5.15, 5.10, 5.10

W.T. 5.12502 5.12
6.144

263

C - 10# 13½ oz.

T - 11# 5 oz.

B - 9# 3 oz.

263

WASHCLOTHES

TOWELS

CRIP

68

19

BILL

63

11

BO

66

10

82 BIOCIDE IN HEAD

263

C - 14th 302

T - 11" 1 "

B - 11" 2 "

Singular

1st Person I Я — -Y (oo)

~~2nd " You (Thee) Tbl -to~~

2nd " You (Thee) Tbl e шb

3rd " He, She, It ~~one on, on, on~~

OH OHO OHA

eT

Plural

1^o We MDI eM

2^o You bi eTe

3^o They OHU YT, HOT

1 oz. = 29.574 cu. cm.

W.T.

Friday Sept. 29

R

L

Calf R - $16\frac{3}{8}$ L - $16\frac{1}{8}$

Forearm $11\frac{3}{8}$ $11\frac{1}{4}$

Heeps $12\frac{1}{2}$ $12\frac{1}{2}$

chest 37_{in} 40 $\frac{1}{8}$ ex

W 34 $\frac{3}{4}$

Thigh 22 $\frac{1}{2}$ 21 $\frac{1}{2}$

$16\frac{5}{8}$

$16\frac{3}{8}$ calf

Dr. T. Thornton

	T+0	T+1	T+5
Ca	9.8	9.3	9.3
Mg	2.2	2.2	2.0
P ₀₄	4.0	3.9	3.6
Na	141	141	144
K	3.9	4.1	4.1
Cl	109	104	108
old	142	149	<u>188</u>
Trigly	85	71	80

1 #
 1/2 butter
 wk

(Good Do)