COMPARISON OF MEASURED AND CALCULATED WEIGHTS ON THE CP78 FABRICS

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INTRODUCTION

During the analysis of the central project 1978 data it was discovered that the actual fabric weight (gsm) measured in the laboratory was in some cases significantly different from the fabric weight obtainable using either of the following equations .....

EQUATION 1 Fabric weight (gsm) = 0.2 x Tex x Stitch Length x No. of stitches/sq cm

EQUATION 2 Fabric weight (gsm) = Calculated from % shrinkage and weight.

i.e. Weight B.W. calculated from weight A.W. and % shrinkage
Weight A.W. calculated from weight B.W. and % shrinkage

The object of this report is to look at all the available data and to see if any single cause is responsible for these errors between measured and calculated weights. The problem of finding a reason for these discrepancies is further enhanced by the fact that not all of measured weights were obtained using the same test method. The textimeter FH 465 Beta gauge was used to measure a proportion of the weights and the 5 1/4" cut and weigh method was used to measure the remainder.

FABRICS USED IN THIS INVESTIGATION

All of the data available is used and this consists of ....

Rib Fabric Processes 1 - 28 B.W./A.W. (Table 1)
Int Fabric Processes 1 - 28 B.W./A.W. (Table 2)

Each of the above fabric processes contains up to 16 different yarn count/stitch length constructions (Table 3). It should be noted that not all 16 constructions are available for each process.

ANALYSIS OF DATA

Tables 4 to 31 show all the weight data that is available as well as the percentage differences between the measured weight and each of the 2 calculated weights. The means of these percentage differences over each fabric process can be seen on tables 32 for rib and 33 for interlock.

The percentage differences between the measured fabric weight and the calculated weights are then plotted and a range of 1 standard deviation on either side of the mean is shown (see Figures 1-8).

GRAPHS 1 - 4 MEASURED WEIGHT VS CALCULATED WEIGHT BY EQUATION 1

We can see from graphs 1 to 4 that fabric 13 (JDX2) and fabric 14 (MJDX2) have consistently the highest percentage differences (with the exception of Int MJDX2 A.W.) over all 28 processes. We should also note that the percentage difference in fabric 1 (greige) after wash is higher than the percentage difference in greige before wash. The reason for this difference in calculated greige weights lies within the way equation 1 is calculated.

i.e. Fabric weight = 0.2 x Tex x Stitch Length x Stitches/cm.

The tex value is obtained from 590.54/yarn count (A.W.)
(The yarn count is not measured on fabrics before wash)

Thus the tex value A.W. is used to calculate weights both before and after wash. This is reasonable for the finished fabrics where the change in tex due to washing is insignificant. However in the case of greige fabrics there is a significant loss in weight due to the relaxation procedure (about 4%) so the use of tex A.W. in equation 1 would be expected to lead to an under estimate of greige weight B.W.

GRAPHS 5 - 8 MEASURED WEIGHT VS CALCULATED WEIGHT BY EQUATION 2

In general the calculated weights using equation 2 are closer to the measured weights than those calculated from equation 1. The weights measured using the β-Gauge are in such good agreement with the calculated that in the case of Rib,12 out of the 14 fabrics are within 1 standard deviation of the measured weight, the before wash

and after wash graphs for interlock and rib show a "Mirror Image" effect which is due to the fact that equation 2 calculates both before and after wash weights using the same percentage shrinkage value It is therefore reasonable to assume that there will be a relationship between the two based on shrinkage.

COMPARISON OF BETA GAUGE AND 5 1/4" CUT AND WEIGH METHOD

We have known for a long time that the beta gauge method of weighing fabric is not as accurate as the 5 1/4" cut and weigh method, but for reasons of speed it was decided at the beginning of the CP78 project to use it anyway. In research record 90 "Evaluation of the Beta Gauge" it was stated that:-

1) If a high degree of accuracy is required the cut and weigh method should be used.

2) Within the range 125gsm to 225gsm, the degree of accuracy between the Beta Gauge method and the cut and weigh method is quite good.

If we now look at the CP78 weights which were measured on the β Gauge we can see that a substantial number lie outside this 125 - 225gsm range. The following table shows the percentage of weights outside the above range ....

	B.W.	A.W.
RIB	16%	24%
INT	12%	49%

For these weights which make up over 1/4 of all β-Gauge weights measured, the cut and weigh method should have been used. However, note that for the fabrics which exhibit the greatest discrepancies between measured and calculated weights, all samples have measured weights within the acceptable range.

To compare β-Gauge and cut and weigh numerically we must break down the percentage difference into their respective groups. This is done on tables 34 - 49 in the form of frequency distributions.

The following table summarises the results found.

		% DIFFERENCE: (CALCULATED-MEASURED)				
		Before Wash		After Wash		
		$\bar{x}$	σ	$\bar{x}$	σ	N.
RIB						
BG	EQ1	5.85	6.46	5.0	5.12	158
	EQ2	-1.45	5.06	1.19	4.80	158
CUT & WEIGH	EQ1	-0.03	3.88	2.61	3.50	223
	EQ2	-4.52	3.29	4.23	2.95	223
INTERLOCK						
BG	EQ1	2.28	5.04	2.83	4.85	156
	EQ2	-2.24	4.56	1.98	4.38	156
CUT & WEIGH	EQ1	0.835	4.18	2.31	2.95	210
	EQ2	-3.5	6.7	3.33	2.41	210

From the above table we can make several observations.

1) EQ2 agrees consistently better with the β Gauge method than EQ1 on both before and after wash.

2) EQ1 agrees better with the cut and weigh method both before and after wash.

3) On the after wash fabrics both EQ1 and EQ2 are constantly calculating higher than the measured values (by between 1 and 5%).

4) Very few of these differences are significantly different from zero and only two of them (both EQ1, Rib, Beta gauge) are as great as 5%. The majority are less than $2\frac{1}{2}$%.

DISCUSSION

Both of the equations would be expected to be less reliable than direct measurement. Equation 1 depends upon the measured values of Tex, stitch length, courses and wales so any experimental errors are compounded. Equation 2 depends upon measured shrinkages which tend to have worse confidence limits than any other measured parameter. However, in these comparisons, we are averaging over relatively large numbers of samples and so there is a good chance that the discrepancies found are real ones and not due solely to chance.

If we take agreement to within ± 5% as criterion for acceptance then over the whole series there are very few problems.

For the beta gauge there is an indication that some drift in the instrument may have occurred, culminating in large errors for finishes 13 and 14. However the evidence is not unequivocal and it is possible that some other specific problem has arisen with these two sets of samples which would be difficult to identify at this stage.

In general it seems that the Rib data are less reliable than the Interlock and the BW data less reliable than AW.

On the whole, the cut and weigh method seems more reliable than the beta gauge but this is due mainly to a few wild results in the beta gauge set. It is as though the beta gauge is performing reasonably well most of the time but a disturbing influence is capable of throwing out a whole set of results over a short time period. Possibly this could be an operator effect (stretching the samples?) but is more likely to be short-term instrumental drift. This emphasises the need to make regular calibration checks.

Since, especially in the AW samples, the bulk of the data agree to within about ± 5%, there is little or no cause for concern in respect of the STARFISH equations.

TABLE : 1

*** RIB PROCESSING ROUTES ***

Weights Measured using Beta Guage

1.	G	Grey
2.	M	Mercerised
3.	WB	Winch Bleached
4.	WD	Winch Dyed
5.	JD	Jet Dyed
6.	WDH	Winch Dyed, H&M(Bestan) Compacted
7.	WBT	Winch Bleached, Tubetex Compacted
8.	JDH	Jet Dyed, H&M(Bestan) Compacted
9.	MWB	Mercerised, Winch Bleached
10.	MJD	Mercerised, Jet Dyed
11.	MWBT	Mercerised, Winch Bleached, Tubetex Compacted
12.	MJDH	Mercerised, Jet Dyed, H&M(Bestan) Compacted
13.	JDX2	Jet dyed, Crosslinked(2.5%)
14.	MJDX2	Mercerised, Jet dyed, Crosslinked(2.5%)

Weights Measured using Cut & Weigh

15.	JDX1	Jet dyed, Crosslinked(1.0%)
16.	MJDX1	Mercerised, Jet dyed, Crosslinked(1.0%)
17.	JDS	Jet dyed, pad softener, Stenter dried
18.	MJDS	Mercerised, Jet dyed, pad softener, Stenter dried
19.	EJD	Ecosoft Jet dyed, (second set)
20.	WD2	Winch dyed, (second set)
21.	JDX3	Jet Dyed, Crosslinked (1.75%)
22.	JDX3E	Jet Dyed, Crosslinked (1.75%) + Si Elastomer
23.	MJDX3	Mercerised, Jet Dyed, Crosslinked (1.75%)
24.	MJDX3E	Mercerised,Jet Dyed,X-Linked(1.75%)+Si Elastomer
25.	JDX4	Jet Dyed, Crosslinked (3.5%)
26.	MJDX4	Mercerised, Jet Dyed, Crosslinked (3.5%)
27.	JDX5	Jet Dyed, Crosslinked (5.0%)
28.	MJDX5	Mercerised, Jet Dyed, Crosslinked (5.0%)

TABLE : 2

*** INTERLOCK PROCESSING ROUTES ***

Weights Measured using Beta Guage

1.	G	Grey
2.	M	Mercerised
3.	WB	Winch Bleached
4.	CB	Continuous Bleached
5.	WD	Winch Dyed
6.	JD	Jet Dyed
7.	CBT	Continuous Bleach,Tubetex Compacted
8.	WDH	Winch Dyed, H&M(Bestan) Compacted
9.	WBT	Winch Bleached, Tubetex Compacted
10.	JDH	Jet Dyed, H&M(Bestan) Compacted
11.	MJD	Mercerised, Jet Dyed
12.	MJDH	Mercerised, Jet Dyed, H&M(Bestan) Compacted
13.	JDX2	Jet dyed, Crosslinked(2.5%)
14.	MJDX2	Mercerised, Jet dyed, Crosslinked(2.5%)

Weights Measured using Cut & Weigh

15.	JDX1	Jet dyed, Crosslinked(1.0%)
16.	MJDX1	Mercerised, Jet dyed, Crosslinked(1.0%)
17.	JDS	Jet dyed, pad softener, Stenter dried
18.	MJDS	Mercerised, Jet dyed, pad softener, Stenter dried
19.	EJD	Ecosoft Jet dyed, (second set)
20.	WD2	Winch dyed, (second set)
21.	JDX3	Jet Dyed, Crosslinked (1.75%)
22.	JDX3E	Jet Dyed, Crosslinked (1.75%) + Si Elastomer
23.	MJDX3	Mercerised, Jet Dyed, Crosslinked (1.75%)
24.	MJDX3E	Mercerised,Jet Dyed,X-Linked(1.75%)+Si Elastomer
25.	JDX4	Jet Dyed, Crosslinked (3.5%)
26.	MJDX4	Mercerised, Jet Dyed, Crosslinked (3.5%)
27.	JDX5	Jet Dyed, Crosslinked (5.0%)
28.	MJDX5	Mercerised, Jet Dyed, Crosslinked (5.0%)

Table : 3

Stitch Length & Yarn Count Combinations

1	Rib 26/350	Interlock 34/377
2	Rib 26/326	Interlock 34/359
3	Rib 26/306	Interlock 34/340
4	Rib 26/285	Interlock 34/324
5	Rib 26/267	Interlock 34/307
6	Rib 30/350	Interlock 38/377
7	Rib 30/326	Interlock 38/359
8	Rib 30/306	Interlock 38/340
9	Rib 30/285	Interlock 38/324
10	Rib 30/267	Interlock 38/307
11	Rib 34/350	Interlock 42/377
12	Rib 34/326	Interlock 42/359
13	Rib 34/306	Interlock 42/340
14	Rib 34/285	Interlock 42/324
15	Rib 34/267	Interlock 42/307
16	Rib 34/248	

Table : 4

Comparison of Measured and Calculated Weights.

Fabric Code :R/G Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	159.4	162.0	147.0	194.8	222.0	211.0	1.6	-8.4	12.3	7.7
2	167.4	172.0	156.0	218.0	237.0	235.0	2.7	-7.3	8.0	7.2
3	182.8	172.0	172.0	241.8	254.0	257.0	-6.3	-6.3	4.8	5.9
4	172.8	185.0	171.0	250.8	261.0	254.0	6.6	-1.1	3.9	1.3
5	185.2	187.0	180.0	274.0	281.0	282.0	1.0	-2.9	2.5	2.8
6	139.6	147.0	131.0	173.0	185.0	184.0	5.0	-6.6	6.5	6.0
7	137.2	150.0	138.0	191.6	201.0	190.0	8.5	0.6	4.7	-0.8
8	149.4	153.0	136.0	198.8	205.0	219.0	2.4	-9.9	3.0	9.2
9	158.0	153.0	146.0	216.0	225.0	234.0	-3.3	-8.2	4.0	7.7
10	162.6	160.0	150.0	229.3	236.0	248.0	-1.6	-8.4	2.8	7.5
11	142.4	125.0	116.0	143.4	158.0	176.0	-13.9	-22.8	9.2	18.5
12	137.2	123.0	113.0	152.0	173.0	184.0	-11.5	-21.4	12.1	17.4
13	124.4	131.0	119.0	172.8	185.0	181.0	5.0	-4.5	6.6	4.5
14	126.8	138.0	122.0	185.4	204.0	193.0	8.1	-3.9	9.1	3.9
15	130.4	132.0	127.0	194.0	208.0	200.0	1.2	-2.7	6.7	3.0
16	148.2	152.0	140.0	220.2	221.0	233.0	2.5	-5.9	0.4	5.5
						Mean	0.5	-7.5	6.0	6.7

Fabric Code :R/M Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	202.8	205.0	187.0	222.0	241.0	241.0	1.1	-8.4	7.9	7.9
2	217.2	216.0	212.0	248.3	252.0	254.0	-0.6	-2.5	1.5	2.2
3	241.6	237.0	236.0	272.0	278.0	278.0	-1.9	-2.4	2.2	2.2
4	268.1	255.0	255.0	291.6	293.0	306.0	-5.1	-5.1	0.5	4.7
5	288.8	276.0	272.0	305.6	309.0	325.0	-4.6	-6.2	1.1	6.0
6	170.2	181.0	167.0	198.1	206.0	202.0	6.0	-1.9	3.8	1.9
7	192.5	183.0	172.0	198.2	218.0	222.0	-5.2	-11.9	9.1	10.7
8	212.2	209.0	200.0	231.8	243.0	246.0	-1.5	-6.1	4.6	5.8
9	225.0	216.0	218.0	247.8	249.0	256.0	-4.2	-3.2	0.5	3.2
10	235.8	229.0	231.0	262.8	262.0	268.0	-3.0	-2.1	-0.3	1.9
11	155.8	162.0	152.0	177.8	174.0	182.0	3.8	-2.5	-2.2	2.3
12	162.9	167.0	158.0	188.4	189.0	194.0	2.5	-3.1	0.3	2.9
13	184.0	179.0	175.0	204.2	211.0	215.0	-2.8	-5.1	3.2	5.0
14	195.2	193.0	183.0	211.2	216.0	226.0	-1.1	-6.7	2.2	6.5
15	208.2	203.0	195.0	224.6	231.0	240.0	-2.6	-6.8	2.8	6.4
16	233.4	216.0	219.0	246.0	243.0	263.0	-8.1	-6.6	-1.2	6.5
						Mean	-1.7	-5.0	2.2	4.8

Table : 5

Comparison of Measured and Calculated Weights.

Fabric Code :R/WB Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	158.0	164.0	152.0	193.0	195.0	200.0	3.7	-3.9	1.0	3.5
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	175.6	189.0	173.0	214.6	220.0	218.0	7.1	-1.5	2.5	1.6
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	143.4	146.0	126.0	174.4	177.0	199.0	1.8	-13.8	1.5	12.4
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	164.2	168.0	161.0	200.4	204.0	204.0	2.3	-2.0	1.8	1.8
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	122.6	133.0	121.0	153.4	162.0	155.0	7.8	-1.3	5.3	1.0
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	144.8	155.0	140.0	176.8	183.0	182.0	6.6	-3.4	3.4	2.9
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	4.9	-4.3	2.6	3.8

Fabric Code :R/WD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	154.7	160.0	155.0	190.2	189.0	190.0	3.3	0.2	-0.6	-0.1
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	183.8	181.0	182.0	218.2	215.0	221.0	-1.5	-1.0	-1.5	1.3
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	132.0	143.0	140.0	173.6	177.0	163.0	7.7	5.7	1.9	-6.5
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	165.0	168.0	162.0	199.4	202.0	203.0	1.8	-1.9	1.3	1.8
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	124.4	128.0	121.0	155.0	161.0	159.0	2.8	-2.8	3.7	2.5
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	142.8	148.0	142.0	175.6	183.0	177.0	3.5	-0.6	4.0	0.8
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	2.9	-0.1	1.5	0.0

Table : **6**

Comparison of Measured and Calculated Weights.

Fabric Code :R/JD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	159.8	165.0	153.0	193.2	197.0	202.0	3.2	-4.4	1.9	4.4
2	163.6	169.0	167.0	211.4	211.0	208.0	3.2	2.0	-0.2	-1.6
3	180.8	187.0	184.0	226.6	227.0	223.0	3.3	1.7	0.2	-1.6
4	191.8	204.0	196.0	241.0	237.0	236.0	6.0	2.1	-1.7	-2.1
5	199.8	219.0	217.0	259.8	258.0	239.0	8.8	7.9	-0.7	-8.7
6	134.0	131.0	126.0	164.4	169.0	175.0	-2.3	-6.3	2.7	6.1
7	141.2	150.0	139.0	179.5	187.0	182.0	5.9	-1.6	4.0	1.4
8	149.6	155.0	149.0	190.6	199.0	192.0	3.5	-0.4	4.2	0.7
9	163.0	174.0	166.0	207.2	210.0	204.0	6.3	1.8	1.3	-1.6
10	176.4	187.0	180.0	220.8	220.0	216.0	5.7	2.0	-0.4	-2.2
11	115.8	113.0	109.0	145.8	147.0	154.0	-2.5	-6.2	0.8	5.3
12	122.8	126.0	122.0	155.0	164.0	157.0	2.5	-0.7	5.5	1.3
13	131.6	131.0	124.0	163.2	169.0	173.0	-0.5	-6.1	3.4	5.7
14	145.0	150.0	142.0	175.6	168.0	179.0	3.3	-2.1	-4.5	1.9
15	151.4	156.0	154.0	191.4	195.0	189.0	2.9	1.7	1.8	-1.3
16	167.8	169.0	164.0	198.0	197.0	203.0	0.7	-2.3	-0.5	2.5
						Mean	3.1	-0.7	1.1	0.6

Fabric Code :R/WDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	142.6	144.0	137.0	193.4	202.0	202.0	1.0	-4.1	4.3	4.3
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	177.0	191.0	179.0	226.0	236.0	223.0	7.3	1.1	4.2	-1.3
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	143.0	147.0	144.0	192.8	195.0	191.0	2.7	0.7	1.1	-0.9
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	162.4	170.0	166.0	208.8	209.0	204.0	4.5	2.2	0.1	-2.4
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	128.0	128.0	120.0	159.8	174.0	171.0	0.0	-6.7	8.2	6.5
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	147.4	156.0	148.0	186.2	191.0	185.0	5.5	0.4	2.5	-0.6
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	3.5	-1.1	3.4	0.9

Table : 7

Comparison of Measured and Calculated Weights.

Fabric Code :R/WBT Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	155.4	179.0	161.0	187.0	191.0	181.0	13.2	3.5	2.1	-3.3
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	194.2	199.0	188.0	211.6	221.0	218.0	2.4	-3.3	4.3	2.9
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	141.0	148.0	143.0	165.6	173.0	163.0	4.7	1.4	4.3	-1.6
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	167.8	171.0	169.0	195.0	203.0	194.0	1.9	0.7	3.9	-0.5
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	129.0	149.0	135.0	155.8	161.0	149.0	13.4	4.4	3.2	-4.6
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	148.0	162.0	154.0	173.2	184.0	166.0	8.6	3.9	5.9	-4.3
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	7.4	1.8	3.9	-1.9

Fabric Code :R/JDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	149.2	162.0	148.0	187.4	204.0	189.0	7.9	-0.8	8.1	0.8
2	172.2	184.0	161.0	203.0	217.0	217.0	6.4	-7.0	6.5	6.5
3	167.4	182.0	172.0	222.0	226.0	216.0	8.0	2.7	1.8	-2.8
4	183.0	200.0	195.0	242.4	244.0	227.0	8.5	6.2	0.7	-6.8
5	202.2	216.0	213.0	257.8	250.0	245.0	6.4	5.1	-3.1	-5.2
6	137.0	132.0	124.0	162.6	177.0	180.0	-3.8	-10.5	8.1	9.7
7	139.8	157.0	146.0	182.2	185.0	174.0	11.0	4.2	1.5	-4.7
8	144.8	157.0	144.0	185.6	198.0	187.0	7.8	-0.6	6.3	0.7
9	150.6	169.0	160.0	203.8	211.0	192.0	10.9	5.9	3.4	-6.1
10	175.8	192.0	182.0	222.2	226.0	215.0	8.4	3.4	1.7	-3.3
11	107.2	112.0	108.0	140.9	150.0	140.0	4.3	0.7	6.1	-0.6
12	118.8	126.0	123.0	153.6	149.0	148.0	5.7	3.4	-3.1	-3.8
13	126.4	130.0	125.0	161.5	164.0	163.0	2.8	-1.1	1.5	0.9
14	131.8	145.0	137.0	177.8	189.0	171.0	9.1	3.8	5.9	-4.0
15	140.2	150.0	145.0	187.6	190.0	181.0	6.5	3.3	1.3	-3.6
16	163.0	169.0	163.0	202.2	210.0	202.0	3.6	0.0	3.7	-0.1
						Mean	6.5	1.2	3.1	-1.4

Table : 8

Comparison of Measured and Calculated Weights.

Fabric Code :R/MWB Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	157.0	165.0	148.0	205.0	222.0	217.0	4.8	-6.1	7.7	5.5
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	205.1	201.0	190.0	244.6	242.0	264.0	-2.0	-7.9	-1.1	7.3
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	154.7	162.0	146.0	196.0	208.0	208.0	4.5	-6.0	5.8	5.8
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	158.6	166.0	165.0	218.6	225.0	210.0	4.5	3.9	2.8	-4.1
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	138.5	146.0	134.0	181.6	192.0	188.0	5.1	-3.4	5.4	3.4
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	160.3	162.0	164.0	211.2	209.0	206.0	1.0	2.3	-1.1	-2.5
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	3.0	-2.9	3.3	2.6

Fabric Code :R/MJD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	167.6	187.0	168.0	225.0	241.0	224.0	10.4	0.2	6.6	-0.4
2	178.0	201.0	185.0	240.0	260.0	231.0	11.4	3.8	7.7	-3.9
3	207.3	210.0	214.0	265.6	267.0	257.0	1.3	3.1	0.5	-3.3
4	223.8	220.0	225.0	281.6	269.0	281.0	-1.7	0.5	-4.7	-0.2
5	229.0	241.0	231.0	291.4	286.0	289.0	5.0	0.9	-1.9	-0.8
6	142.2	151.0	141.0	197.0	204.0	199.0	5.8	-0.9	3.4	1.0
7	159.4	168.0	150.0	201.0	212.0	214.0	5.1	-6.3	5.2	6.1
8	172.5	177.0	170.0	222.2	237.0	225.0	2.5	-1.5	6.2	1.2
9	188.4	185.0	188.0	245.0	239.0	245.0	-1.8	-0.2	-2.5	0.0
10	211.9	216.0	203.0	258.0	251.0	270.0	1.9	-4.4	-2.8	4.4
11	117.6	134.0	121.0	170.0	175.0	165.0	12.2	2.8	2.9	-3.0
12	144.2	145.0	135.0	182.2	192.0	194.0	0.6	-6.8	5.1	6.1
13	140.4	148.0	143.0	193.8	200.0	190.0	5.1	1.8	3.1	-2.0
14	154.6	162.0	156.0	204.2	212.0	202.0	4.6	0.9	3.7	-1.1
15	173.4	185.0	169.0	221.2	225.0	226.0	6.3	-2.6	1.7	2.1
16	201.8	208.0	199.0	251.0	239.0	254.0	3.0	-1.4	-5.0	1.2
						Mean	4.5	-0.6	1.8	0.5

Table : 9

Comparison of Measured and Calculated Weights.

Fabric Code :R/MWBT Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	166.6	191.0	169.0	199.0	219.0	196.0	12.8	1.4	9.1	-1.5
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	203.6	223.0	217.0	243.4	248.0	229.0	8.7	6.2	1.9	-6.3
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	173.2	184.0	169.0	187.2	201.0	192.0	5.9	-2.5	6.9	2.5
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	190.6	211.0	192.0	215.2	233.0	214.0	9.7	0.7	7.6	-0.6
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	162.2	173.0	157.0	173.8	190.0	179.0	6.2	-3.3	8.5	2.9
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	181.2	194.0	178.0	200.8	206.0	204.0	6.6	-1.8	2.5	1.6
16	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
						Mean	8.3	0.1	6.1	-0.2

Fabric Code :R/MJDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
2	193.2	215.0	202.0	247.2	257.0	236.0	10.1	4.4	3.8	-4.7
3	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
4	249.4	255.0	242.0	285.3	290.0	294.0	2.2	-3.1	1.6	3.0
5	246.6	255.0	247.0	289.6	292.0	289.0	3.3	0.2	0.8	-0.2
6	149.0	161.0	146.0	191.2	207.0	195.0	7.5	-2.1	7.6	1.9
7	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
8	172.6	190.0	181.0	224.4	238.0	214.0	9.2	4.6	5.7	-4.9
9	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
10	199.0	222.0	216.0	256.8	258.0	237.0	10.4	7.9	0.5	-8.4
11	121.0	139.0	131.0	173.1	179.0	159.0	12.9	7.6	3.3	-8.9
12	134.0	150.0	143.0	182.6	192.0	172.0	10.7	6.3	4.9	-6.2
13	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
14	168.6	177.0	171.0	211.4	216.0	209.0	4.7	1.4	2.1	-1.1
15	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
16	205.8	213.0	202.0	243.4	254.0	248.0	3.4	-1.9	4.2	1.9
						Mean	7.4	2.5	3.5	-2.8

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDX2 Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	140.5	160.0	132.0	159.8	186.0	170.0	12.2	-6.4	14.1	6.0
2	140.5	169.0	150.0	178.6	198.0	168.0	16.9	6.3	9.8	-6.3
3	152.0	188.0	151.0	177.4	207.0	179.0	19.1	-0.7	14.3	0.9
4	182.0	200.0	188.0	217.8	230.0	211.0	9.0	3.2	5.3	-3.2
5	188.0	214.0	190.0	217.6	239.0	215.0	12.1	1.1	9.0	-1.2
6	109.5	125.0	107.0	132.2	152.0	136.0	12.4	-2.3	13.0	2.8
7	127.0	147.0	122.0	146.8	165.0	153.0	13.6	-4.1	11.0	4.1
8	124.5	148.0	123.0	149.0	178.0	151.0	15.9	-1.2	16.3	1.3
9	153.0	173.0	140.0	164.2	201.0	179.0	11.6	-9.3	18.3	8.3
10	158.0	180.0	160.0	183.4	202.0	181.0	12.2	1.3	9.2	-1.3
11	97.0	104.0	95.0	118.4	129.0	121.0	6.7	-2.1	8.2	2.1
12	104.5	123.0	103.0	126.6	145.0	128.0	15.0	-1.5	12.7	1.1
13	110.5	125.0	114.0	136.8	148.0	133.0	11.6	3.1	7.6	-2.9
14	115.0	143.0	113.0	137.2	169.0	140.0	19.6	-1.8	18.8	2.0
15	137.5	152.0	134.0	159.0	182.0	163.0	9.5	-2.6	12.6	2.5
16	144.5	158.0	141.0	169.0	188.0	173.0	8.5	-2.5	10.1	2.3
						Mean	12.9	-1.2	11.9	1.2

Fabric Code :R/MJDX2 Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	150.0	171.0	147.0	177.6	215.0	182.0	12.3	-2.0	17.4	2.4
2	165.5	198.0	166.0	203.6	240.0	203.0	16.4	0.3	15.2	-0.3
3	174.5	201.0	188.0	225.8	245.0	210.0	13.2	7.2	7.8	-7.5
4	195.0	234.0	198.0	240.4	276.0	236.0	16.7	1.5	12.9	-1.9
5	212.0	241.0	210.0	253.2	277.0	255.0	12.0	-1.0	8.6	0.7
6	123.5	155.0	124.0	149.4	178.0	149.0	20.3	0.4	16.1	-0.3
7	149.5	166.0	130.0	157.0	196.0	181.0	9.9	-15.0	19.9	13.3
8	155.0	191.0	150.0	182.0	221.0	188.0	18.8	-3.3	17.6	3.2
9	166.0	189.0	167.0	202.6	232.0	201.0	12.2	0.6	12.7	-0.8
10	185.0	219.0	181.0	219.2	248.0	224.0	15.5	-2.2	11.6	2.1
11	108.5	128.0	124.0	148.6	163.0	130.0	15.2	12.5	8.8	-14.3
12	116.5	138.0	121.0	149.8	170.0	144.0	15.6	3.7	11.9	-4.0
13	126.0	163.0	132.0	161.6	192.0	154.0	22.7	4.5	15.8	-4.9
14	139.5	170.0	142.0	171.6	196.0	168.0	17.9	1.8	12.4	-2.1
15	156.0	188.0	159.0	192.4	216.0	189.0	17.0	1.9	10.9	-1.8
16	184.0	240.0	175.0	212.8	242.0	223.0	23.3	-5.1	12.1	4.6
						Mean	16.2	0.4	13.2	-0.7

Table : \\

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDX1 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	158.9	162.0	151.0	191.5	196.0	202.0	1.9	-5.2	2.3	5.2
2	175.4	173.0	163.0	206.3	213.0	222.0	-1.4	-7.6	3.1	7.1
3	186.7	192.0	177.0	216.0	229.0	227.0	2.8	-5.5	5.7	4.8
4	210.6	213.0	199.0	239.6	245.0	253.0	1.1	-5.8	2.2	5.3
5	224.9	223.0	213.0	252.0	251.0	266.0	-0.9	-5.6	-0.4	5.3
6	129.6	129.0	122.0	158.9	162.0	169.0	-0.5	-6.2	1.9	6.0
7	145.9	147.0	140.0	177.0	189.0	185.0	0.7	-4.2	6.3	4.3
8	159.2	163.0	143.0	178.1	194.0	198.0	2.3	-11.3	8.2	10.1
9	170.4	171.0	161.0	199.8	211.0	211.0	0.4	-5.8	5.3	5.3
10	190.7	195.0	184.0	220.9	226.0	228.0	2.2	-3.6	2.3	3.1
11	116.6	113.0	103.0	138.7	138.0	157.0	-3.2	-13.2	-0.5	11.7
12	122.8	116.0	110.0	144.2	155.0	161.0	-5.9	-11.6	7.0	10.4
13	131.4	131.0	125.0	159.3	160.0	168.0	-0.3	-5.1	0.4	5.2
14	146.9	146.0	137.0	172.4	179.0	185.0	-0.6	-7.2	3.7	6.8
15	156.3	154.0	142.0	174.3	184.0	192.0	-1.5	-10.1	5.3	9.2
16	173.7	171.0	168.0	204.0	206.0	210.0	-1.6	-3.4	1.0	2.9
						Mean	-0.3	-7.0	3.4	6.4

Fabric Code :R/MJDX1 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	187.7	181.0	182.0	226.7	235.0	234.0	-3.7	-3.1	3.5	3.1
2	203.8	197.0	196.0	247.4	245.0	257.0	-3.5	-4.0	-1.0	3.7
3	218.9	221.0	213.0	263.6	271.0	271.0	1.0	-2.8	2.7	2.7
4	236.5	236.0	232.0	281.2	285.0	286.0	-0.2	-1.9	1.3	1.7
5	259.2	259.0	251.0	292.2	298.0	302.0	-0.1	-3.3	1.9	3.2
6	157.0	157.0	148.0	188.1	192.0	200.0	0.0	-6.1	2.0	6.0
7	177.8	179.0	168.0	206.2	213.0	218.0	0.7	-5.8	3.2	5.4
8	192.1	190.0	181.0	228.1	236.0	242.0	-1.1	-6.1	3.3	5.7
9	201.4	196.0	192.0	241.4	243.0	253.0	-2.8	-4.9	0.7	4.6
10	217.2	215.0	212.0	255.0	255.0	261.0	-1.0	-2.5	0.0	2.3
11	131.6	129.0	127.0	168.8	171.0	175.0	-2.0	-3.6	1.3	3.5
12	143.2	145.0	135.0	175.1	187.0	186.0	1.2	-6.1	6.4	5.9
13	163.6	158.0	152.0	191.5	194.0	206.0	-3.5	-7.6	1.3	7.0
14	169.2	169.0	168.0	205.8	204.0	208.0	-0.1	-0.7	-0.9	1.1
15	185.4	185.0	180.0	223.8	225.0	231.0	-0.2	-3.0	0.5	3.1
16	213.9	209.0	205.0	249.5	248.0	260.0	-2.3	-4.3	-0.6	4.0
						Mean	-1.1	-4.1	1.6	3.9

Table : 12

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDS Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	163.5	162.0	156.0	192.9	206.0	203.0	-0.9	-4.8	6.3	5.0
2	177.0	176.0	168.0	210.1	224.0	221.0	-0.6	-5.3	6.2	4.9
3	190.1	188.0	189.0	234.2	240.0	236.0	-1.1	-0.6	2.4	0.8
4	206.4	213.0	206.0	248.7	254.0	250.0	3.1	-0.2	2.1	0.5
5	226.5	227.0	217.0	261.3	265.0	273.0	0.2	-4.4	1.4	4.3
6	135.6	130.0	124.0	163.1	169.0	178.0	-4.3	-9.4	3.5	8.4
7	153.4	145.0	137.0	178.3	190.0	200.0	-5.8	-12.0	6.2	10.8
8	158.1	152.0	149.0	191.0	201.0	202.0	-4.0	-6.1	5.0	5.5
9	178.1	168.0	161.0	202.1	212.0	223.0	-6.0	-10.6	4.7	9.4
10	189.3	185.0	156.0	222.3	226.0	269.0	-2.3	-21.3	1.6	17.4
11	116.9	115.0	106.0	140.9	150.0	155.0	-1.6	-10.3	6.1	9.1
12	125.1	119.0	121.0	154.6	122.0	160.0	-5.1	-3.4	-26.7	3.4
13	135.4	136.0	129.0	162.1	172.0	171.0	0.5	-4.9	5.8	5.2
14	147.0	148.0	143.0	183.6	189.0	189.0	0.7	-2.8	2.9	2.9
15	163.9	161.0	155.0	191.8	198.0	203.0	-1.8	-5.7	3.1	5.5
16	176.5	175.0	170.0	207.0	221.0	214.0	-0.8	-3.8	6.3	3.3
						Mean	-1.9	-6.6	2.3	6.0

Fabric Code :R/MJDS Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	173.2	183.0	169.0	226.8	228.0	232.0	5.3	-2.5	0.5	2.2
2	204.0	204.0	190.0	247.3	256.0	266.0	0.0	-7.3	3.4	7.0
3	220.8	209.0	210.0	264.4	264.0	278.0	-5.6	-5.1	-0.1	4.9
4	238.5	233.0	232.0	285.7	284.0	294.0	-2.4	-2.8	-0.6	2.8
5	257.4	245.0	245.0	297.9	302.0	313.0	-5.1	-5.1	1.4	4.8
6	158.0	152.0	148.0	195.4	207.0	208.0	-3.9	-6.7	5.6	6.1
7	174.4	168.0	164.0	208.7	212.0	222.0	-3.8	-6.3	1.6	6.0
8	187.1	179.0	181.0	230.7	235.0	238.0	-4.5	-3.3	1.8	3.1
9	200.1	200.0	194.0	245.3	250.0	252.0	-0.1	-3.2	1.9	2.7
10	219.4	210.0	209.0	255.0	262.0	268.0	-4.5	-5.0	2.7	4.8
11	131.7	133.0	123.0	168.5	170.0	181.0	1.0	-7.1	0.9	6.9
12	146.7	156.0	133.0	184.6	194.0	204.0	6.0	-10.3	4.8	9.5
13	159.5	162.0	155.0	198.7	202.0	205.0	1.5	-2.9	1.6	3.1
14	169.3	171.0	167.0	213.6	217.0	217.0	1.0	-1.4	1.6	1.6
15	192.1	187.0	183.0	229.3	236.0	241.0	-2.7	-5.0	2.9	4.9
16	215.7	215.0	207.0	248.0	249.0	259.0	-0.3	-4.2	0.4	4.2
						Mean	-1.1	-4.9	1.9	4.7

Table : 13

Comparison of Measured and Calculated Weights.

Fabric Code :R/EJD Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	143.5	148.0	138.0	198.2	208.0	207.0	3.0	-4.0	4.7	4.3
2	154.2	157.0	146.0	213.9	223.0	225.0	1.8	-5.6	4.1	4.9
3	167.5	172.0	166.0	226.6	233.0	229.0	2.6	-0.9	2.7	1.0
4	183.3	186.0	181.0	243.3	252.0	246.0	1.5	-1.3	3.5	1.1
5	198.7	205.0	198.0	261.4	269.0	262.0	3.1	-0.4	2.8	0.2
6	125.0	127.0	117.0	170.4	186.0	183.0	1.6	-6.8	8.4	6.9
7	129.4	137.0	126.0	184.7	190.0	189.0	5.5	-2.7	2.8	2.3
8	142.4	152.0	140.0	193.4	206.0	197.0	6.3	-1.7	6.1	1.8
9	156.4	160.0	152.0	210.5	217.0	217.0	2.3	-2.9	3.0	3.0
10	166.4	177.0	166.0	224.3	229.0	225.0	6.0	-0.2	2.1	0.3
11	102.5	109.0	97.0	147.8	157.0	155.0	6.0	-5.7	5.9	4.6
12	110.0	114.0	107.0	157.3	167.0	162.0	3.5	-2.8	5.8	2.9
13	121.4	125.0	119.0	169.1	173.0	173.0	2.9	-2.0	2.3	2.3
14	135.8	140.0	133.0	185.8	192.0	190.0	3.0	-2.1	3.2	2.2
15	143.8	146.0	139.0	192.9	198.0	199.0	1.5	-3.5	2.6	3.1
16	156.8	160.0	156.0	207.9	210.0	209.0	2.0	-0.5	1.0	0.5
						Mean	3.3	-2.7	3.8	2.6

Fabric Code :R/WD2 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	147.4	153.0	142.0	194.7	210.0	202.0	3.7	-3.8	7.3	3.6
2	160.3	166.0	152.0	211.1	221.0	222.0	3.4	-5.5	4.5	4.9
3	169.0	177.0	167.0	224.9	238.0	228.0	4.5	-1.2	5.5	1.4
4	192.5	194.0	190.0	244.5	242.0	248.0	0.8	-1.3	-1.0	1.4
5	207.3	214.0	204.0	258.1	261.0	262.0	3.1	-1.6	1.1	1.5
6	119.4	127.0	120.0	170.5	178.0	169.0	6.0	0.5	4.2	-0.9
7	130.7	136.0	127.0	178.9	193.0	183.0	3.9	-2.9	7.3	2.2
8	145.7	155.0	145.0	193.5	200.0	195.0	6.0	-0.5	3.3	0.8
9	162.6	167.0	158.0	206.8	209.0	212.0	2.6	-2.9	1.1	2.5
10	173.3	178.0	171.0	222.3	218.0	225.0	2.6	-1.3	-2.0	1.2
11	108.8	110.0	102.0	143.6	160.0	153.0	1.1	-6.7	10.3	6.1
12	113.0	116.0	114.0	157.3	157.0	156.0	2.6	0.9	-0.2	-0.8
13	126.1	131.0	124.0	169.5	171.0	172.0	3.7	-1.7	0.9	1.5
14	135.5	136.0	130.0	180.0	180.0	188.0	0.4	-4.2	0.0	4.3
15	144.2	150.0	144.0	190.5	191.0	191.0	3.9	-0.1	0.3	0.3
16	162.1	164.0	158.0	207.4	210.0	213.0	1.2	-2.6	1.2	2.6
						Mean	3.1	-2.2	2.7	2.0

Table : 14

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDX3 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	150.2	150.0	143.0	178.8	187.0	188.0	-0.1	-5.0	4.4	4.9
2	153.7	163.0	150.0	187.1	199.0	191.0	5.7	-2.5	6.0	2.0
3	171.7	171.0	162.0	202.4	207.0	214.0	-0.4	-6.0	2.2	5.4
4	200.6	197.0	187.0	222.6	227.0	239.0	-1.8	-7.3	1.9	6.9
5	210.5	212.0	201.0	241.5	253.0	253.0	0.7	-4.7	4.5	4.5
6	126.1	124.0	115.0	148.8	154.0	164.0	-1.7	-9.7	3.4	9.3
7	135.4	135.0	126.0	161.8	167.0	174.0	-0.3	-7.5	3.1	7.0
8	136.8	148.0	141.0	173.2	180.0	168.0	7.6	3.0	3.8	-3.1
9	159.0	160.0	151.0	187.0	195.0	197.0	0.6	-5.3	4.1	5.1
10	179.7	178.0	171.0	203.3	207.0	214.0	-1.0	-5.1	1.8	5.0
11	104.2	105.0	98.0	128.3	133.0	136.0	0.8	-6.3	3.5	5.7
12	109.3	114.0	108.0	138.7	141.0	140.0	4.1	-1.2	1.6	0.9
13	120.0	124.0	119.0	146.6	150.0	148.0	3.2	-0.8	2.3	0.9
14	136.8	134.0	131.0	161.7	164.0	169.0	-2.1	-4.4	1.4	4.3
15	140.1	143.0	135.0	166.9	177.0	173.0	2.0	-3.8	5.7	3.5
16	164.8	154.0	154.0	186.3	189.0	199.0	-7.0	-7.0	1.4	6.4
						Mean	0.6	-4.6	3.2	4.3

Fabric Code :R/JDX3E Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	156.7	155.0	152.0	186.7	192.0	192.0	-1.1	-3.1	2.8	2.8
2	161.5	164.0	158.0	195.7	196.0	200.0	1.5	-2.2	0.2	2.2
3	177.3	183.0	174.0	209.2	211.0	214.0	3.1	-1.9	0.9	2.2
4	211.4	213.0	202.0	230.9	231.0	242.0	0.8	-4.7	0.0	4.6
5	218.9	214.0	211.0	244.0	248.0	253.0	-2.3	-3.7	1.6	3.6
6	127.1	129.0	127.0	154.3	155.0	154.0	1.5	-0.1	0.5	-0.2
7	146.3	152.0	142.0	169.5	173.0	174.0	3.8	-3.0	2.0	2.6
8	146.3	153.0	145.0	176.1	181.0	177.0	4.4	-0.9	2.7	0.5
9	166.9	165.0	163.0	195.5	191.0	200.0	-1.2	-2.4	-2.4	2.3
10	177.9	180.0	172.0	206.3	215.0	214.0	1.2	-3.4	4.0	3.6
11	108.1	107.0	99.0	129.4	132.0	141.0	-1.0	-9.2	2.0	8.2
12	115.6	119.0	114.0	142.8	145.0	145.0	2.9	-1.4	1.5	1.5
13	130.7	131.0	127.0	153.5	154.0	158.0	0.2	-2.9	0.3	2.8
14	136.0	135.0	131.0	163.6	169.0	169.0	-0.7	-3.8	3.2	3.2
15	148.7	149.0	145.0	175.2	176.0	180.0	0.2	-2.6	0.5	2.7
16	169.6	172.0	168.0	196.3	199.0	198.0	1.4	-1.0	1.4	0.9
						Mean	0.9	-2.9	1.3	2.7

Table : 15

Comparison of Measured and Calculated Weights.

Fabric Code :R/MJDX3 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	168.3	164.0	156.0	207.6	217.0	224.0	-2.6	-7.9	4.3	7.3
2	191.3	187.0	177.0	227.0	228.0	245.0	-2.3	-8.1	0.4	7.3
3	205.1	201.0	192.0	242.7	247.0	260.0	-2.0	-6.8	1.7	6.7
4	224.9	225.0	214.0	262.9	279.0	276.0	0.0	-5.1	5.8	4.7
5	239.8	240.0	231.0	276.5	281.0	287.0	0.1	-3.8	1.6	3.7
6	145.9	145.0	131.0	173.9	189.0	193.0	-0.6	-11.4	8.0	9.9
7	165.7	165.0	153.0	188.1	197.0	204.0	-0.4	-8.3	4.5	7.8
8	171.5	173.0	161.0	203.3	218.0	217.0	0.9	-6.5	6.7	6.3
9	183.6	186.0	176.0	220.0	220.0	229.0	1.3	-4.3	0.0	3.9
10	203.3	202.0	192.0	234.7	237.0	248.0	-0.6	-5.9	1.0	5.4
11	121.6	124.0	109.0	147.4	166.0	164.0	1.9	-11.6	11.2	10.1
12	133.6	133.0	123.0	163.4	166.0	177.0	-0.5	-8.6	1.6	7.7
13	147.2	149.0	135.0	176.7	186.0	193.0	1.2	-9.0	5.0	8.4
14	160.6	159.0	151.0	189.7	203.0	202.0	-1.0	-6.4	6.6	6.1
15	179.3	177.0	168.0	206.2	216.0	220.0	-1.3	-6.7	4.5	6.3
16	202.9	193.0	192.0	232.5	229.0	245.0	-5.1	-5.7	-1.5	5.1
						Mean	-0.7	-7.3	3.8	6.7

Fabric Code :R/MJDX3E Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	159.6	167.0	164.0	213.0	223.0	207.0	4.4	2.7	4.5	-2.9
2	189.6	199.0	186.0	234.9	247.0	240.0	4.7	-1.9	4.9	2.1
3	202.4	206.0	202.0	248.1	253.0	249.0	1.7	-0.2	1.9	0.4
4	236.7	235.0	232.0	276.5	285.0	282.0	-0.7	-2.0	3.0	2.0
5	243.7	243.0	242.0	285.6	289.0	288.0	-0.3	-0.7	1.2	0.8
6	150.1	147.0	145.0	188.5	190.0	195.0	-2.1	-3.5	0.8	3.3
7	169.6	168.0	162.0	200.3	210.0	210.0	-1.0	-4.7	4.6	4.6
8	177.7	180.0	175.0	217.0	219.0	221.0	1.3	-1.5	0.9	1.8
9	189.4	185.0	183.0	224.2	239.0	232.0	-2.4	-3.5	6.2	3.4
10	207.6	209.0	205.0	245.6	255.0	249.0	0.7	-1.3	3.7	1.4
11	118.6	123.0	113.0	159.0	169.0	167.0	3.6	-5.0	5.9	4.8
12	132.9	135.0	128.0	167.9	178.0	175.0	1.6	-3.8	5.7	4.1
13	151.1	147.0	146.0	184.0	191.0	190.0	-2.8	-3.5	3.7	3.2
14	165.0	172.0	162.0	199.2	205.0	203.0	4.1	-1.9	2.8	1.9
15	177.3	172.0	171.0	209.7	210.0	218.0	-3.1	-3.7	0.1	3.8
16	199.3	202.0	199.0	232.8	239.0	234.0	1.3	-0.2	2.6	0.5
						Mean	0.7	-2.2	3.3	2.2

Table : 16

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDX4 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	148.5	149.0	148.0	173.8	177.0	175.0	0.3	-0.3	1.8	0.7
2	148.9	161.0	155.0	183.2	184.0	176.0	7.5	3.9	0.4	-4.1
3	169.7	174.0	166.0	195.9	199.0	200.0	2.5	-2.2	1.6	2.1
4	187.7	194.0	188.0	213.8	216.0	214.0	3.2	0.2	1.0	0.1
5	215.1	202.0	203.0	229.5	230.0	243.0	-6.5	-6.0	0.2	5.6
6	121.2	127.0	119.0	144.8	151.0	148.0	4.6	-1.8	4.1	2.2
7	138.0	142.0	137.0	157.2	163.0	158.0	2.8	-0.7	3.6	0.5
8	142.7	145.0	142.0	167.4	172.0	169.0	1.6	-0.5	2.7	0.9
9	155.9	163.0	158.0	179.1	187.0	176.0	4.4	1.3	4.2	-1.8
10	175.6	177.0	176.0	199.9	202.0	200.0	0.8	0.2	1.0	0.1
11	112.2	112.0	104.0	123.1	129.0	132.0	-0.2	-7.9	4.6	6.7
12	114.6	117.0	112.0	134.2	140.0	137.0	2.1	-2.3	4.1	2.0
13	115.1	123.0	119.0	140.7	145.0	136.0	6.4	3.3	3.0	-3.5
14	136.0	132.0	131.0	152.5	153.0	159.0	-3.0	-3.8	0.3	4.1
15	142.8	148.0	142.0	163.8	169.0	165.0	3.5	-0.6	3.1	0.7
16	164.2	166.0	158.0	182.6	189.0	190.0	1.1	-3.9	3.4	3.9
						Mean	1.9	-1.3	2.4	1.3

Fabric Code :R/MJDX4 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	172.3	182.0	167.0	202.0	214.0	208.0	5.3	-3.2	5.6	2.9
2	200.3	197.0	185.0	223.4	233.0	241.0	-1.7	-8.3	4.1	7.3
3	214.9	214.0	200.0	242.3	251.0	261.0	-0.4	-7.4	3.5	7.2
4	232.1	241.0	224.0	261.7	271.0	272.0	3.7	-3.6	3.4	3.8
5	260.2	269.0	245.0	279.0	304.0	296.0	3.3	-6.2	8.2	5.7
6	157.6	176.0	143.0	176.9	190.0	194.0	10.5	-10.2	6.9	8.8
7	168.7	181.0	153.0	186.3	201.0	206.0	6.8	-10.3	7.3	9.6
8	179.4	181.0	173.0	208.2	223.0	216.0	0.9	-3.7	6.6	3.6
9	192.7	193.0	185.0	214.1	222.0	223.0	0.2	-4.2	3.6	4.0
10	218.5	229.0	217.0	238.5	243.0	240.0	4.6	-0.7	1.9	0.6
11	132.2	132.0	122.0	152.5	154.0	165.0	-0.2	-8.4	1.0	7.6
12	142.6	136.0	131.0	158.7	182.0	173.0	-4.9	-8.9	12.8	8.3
13	150.5	145.0	145.0	174.2	172.0	181.0	-3.8	-3.8	-1.3	3.8
14	171.9	172.0	162.0	191.0	197.0	203.0	0.1	-6.1	3.0	5.9
15	183.4	173.0	176.0	204.3	206.0	213.0	-6.0	-4.2	0.8	4.1
16	206.7	198.0	189.0	222.8	234.0	244.0	-4.4	-9.4	4.8	8.7
						Mean	0.9	-6.2	4.5	5.7

Table : 17

Comparison of Measured and Calculated Weights.

Fabric Code :R/JDX5 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	149.3	149.0	145.0	166.2	161.0	171.0	-0.2	-3.0	-3.2	2.8
2	161.4	148.0	148.0	171.7	180.0	187.0	-9.1	-9.1	4.6	8.2
3	171.7	155.0	161.0	183.3	193.0	196.0	-10.8	-6.6	5.0	6.5
4	191.3	193.0	185.0	206.2	205.0	214.0	0.9	-3.4	-0.6	3.6
5	205.9	210.0	200.0	219.1	206.0	226.0	2.0	-2.9	-6.4	3.1
6	122.3	110.0	114.0	135.8	133.0	146.0	-11.2	-7.3	-2.1	7.0
7	135.3	142.0	131.0	152.2	158.0	157.0	4.7	-3.3	3.7	3.1
8	144.0	131.0	136.0	158.4	163.0	167.0	-9.9	-5.9	2.8	5.1
9	156.6	155.0	158.0	176.9	176.0	175.0	-1.0	0.9	-0.5	-1.1
10	176.9	161.0	164.0	185.8	188.0	200.0	-9.9	-7.9	1.2	7.1
11	104.4	105.0	99.0	116.3	117.0	122.0	0.6	-5.5	0.6	4.7
12	109.6	104.0	108.0	127.8	134.0	130.0	-5.4	-1.5	4.6	1.7
13	128.8	126.0	117.0	137.6	143.0	152.0	-2.2	-10.1	3.8	9.5
14	131.8	136.0	129.0	148.3	135.0	151.0	3.1	-2.2	-9.9	1.8
15	146.6	122.0	137.0	157.8	159.0	168.0	-20.2	-7.0	0.8	6.1
16	164.2	157.0	158.0	172.9	153.0	180.0	-4.6	-3.9	-13.0	3.9
						Mean	-4.6	-4.9	-0.5	4.6

Fabric Code :R/MJDX5 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	168.1	179.0	157.0	192.6	205.0	206.0	6.1	-7.1	6.0	6.5
2	190.8	196.0	179.0	213.1	222.0	228.0	2.7	-6.6	4.0	6.5
3	208.3	211.0	197.0	232.0	235.0	246.0	1.3	-5.7	1.3	5.7
4	227.0	213.0	215.0	246.4	247.0	261.0	-6.6	-5.6	0.2	5.6
5	243.5	242.0	235.0	266.8	271.0	277.0	-0.6	-3.6	1.5	3.7
6	150.5	149.0	140.0	169.5	173.0	182.0	-1.0	-7.5	2.0	6.9
7	168.6	152.0	157.0	182.8	190.0	196.0	-10.9	-7.4	3.8	6.7
8	176.0	178.0	167.0	198.9	211.0	209.0	1.1	-5.4	5.7	4.8
9	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
10	210.2	206.0	195.0	223.8	230.0	242.0	-2.0	-7.8	2.7	7.5
11	120.3	120.0	114.0	141.5	150.0	149.0	-0.2	-5.5	5.7	5.0
12	134.2	130.0	123.0	149.8	156.0	163.0	-3.2	-9.1	4.0	8.1
13	149.5	146.0	139.0	165.7	171.0	178.0	-2.4	-7.6	3.1	6.9
14	161.2	162.0	151.0	178.0	187.0	191.0	0.5	-6.8	4.8	6.8
15	178.0	158.0	165.0	190.4	190.0	205.0	-12.7	-7.9	-0.2	7.1
16	199.3	187.0	186.0	211.3	209.0	226.0	-6.6	-7.2	-1.1	6.5
						Mean	-2.3	-6.7	2.9	6.3

Table : 18

Comparison of Measured and Calculated Weights.

Fabric Code : I/G Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	182.4	187.0	172.0	236.8	250.0	251.0	2.5	-6.0	5.3	5.7
2	189.0	190.0	171.0	241.2	270.0	267.0	0.5	-10.5	10.7	9.7
3	184.4	180.0	173.0	253.2	265.0	270.0	-2.4	-6.6	4.5	6.2
4	189.4	194.0	178.0	265.8	276.0	283.0	2.4	-6.4	3.7	6.1
5	201.9	209.0	195.0	277.0	288.0	287.0	3.4	-3.5	3.8	3.5
6	168.6	172.0	144.0	205.4	244.0	240.0	2.0	-17.1	15.8	14.4
7	158.2	170.0	150.0	215.6	236.0	227.0	6.9	-5.5	8.6	5.0
8	167.6	173.0	156.0	227.6	245.0	245.0	3.1	-7.4	7.1	7.1
9	164.8	181.0	162.0	238.0	263.0	243.0	9.0	-1.7	9.5	2.1
10	184.6	182.0	172.0	249.6	257.0	268.0	-1.4	-7.3	2.9	6.9
11	163.8	160.0	146.0	200.2	228.0	225.0	-2.4	-12.2	12.2	11.0
12	152.0	155.0	134.0	199.0	225.0	225.0	1.9	-13.4	11.6	11.6
13	147.2	149.0	138.0	208.8	226.0	222.0	1.2	-6.7	7.6	5.9
14	149.2	153.0	148.0	226.6	227.0	229.0	2.5	-0.8	0.2	1.0
15	154.0	159.0	151.0	230.6	243.0	235.0	3.1	-2.0	5.1	1.9
						Mean	2.2	-7.1	7.2	6.5

Fabric Code : I/M Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	248.6	234.0	233.0	266.1	266.0	284.0	-6.2	-6.7	0.0	6.3
2	254.0	232.0	239.0	279.6	275.0	298.0	-9.5	-6.3	-1.7	6.2
3	272.4	248.0	248.0	291.4	286.0	320.0	-9.8	-9.8	-1.9	8.9
4	277.0	256.0	261.0	303.0	299.0	322.0	-8.2	-6.1	-1.3	5.9
5	304.2	274.0	278.0	318.4	321.0	348.0	-11.0	-9.4	0.8	8.5
6	214.0	197.0	207.0	242.6	226.0	251.0	-8.6	-3.4	-7.3	3.3
7	240.8	224.0	215.0	253.2	258.0	283.0	-7.5	-12.0	1.9	10.5
8	242.6	228.0	230.0	266.6	266.0	281.0	-6.4	-5.5	-0.2	5.1
9	264.3	244.0	241.0	276.1	281.0	303.0	-8.3	-9.7	1.7	8.9
10	270.6	249.0	249.0	282.6	281.0	307.0	-8.7	-8.7	-0.6	7.9
11	201.4	200.0	190.0	221.2	219.0	234.0	-0.7	-6.0	-1.0	5.5
12	207.6	198.0	202.0	228.0	233.0	235.0	-4.8	-2.8	2.1	3.0
13	231.8	212.0	209.0	236.2	240.0	262.0	-9.3	-10.9	1.6	9.8
14	238.0	223.0	213.0	243.0	243.0	272.0	-6.7	-11.7	0.0	10.7
15	250.0	234.0	238.0	261.2	262.0	275.0	-6.8	-5.0	0.3	5.0
						Mean	-7.5	-7.6	-0.4	7.0

Table : 19

Comparison of Measured and Calculated Weights.

Fabric Code :I/WB Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	163.1	165.0	157.0	222.1	230.0	230.0	1.2	-3.9	3.4	3.4
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	184.7	181.0	175.0	239.8	243.0	253.0	-2.0	-5.5	1.3	5.2
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	150.1	155.0	147.0	210.0	214.0	215.0	3.2	-2.1	1.9	2.3
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	166.8	168.0	162.0	227.6	235.0	235.0	0.7	-3.0	3.1	3.1
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	147.0	144.0	137.0	196.2	204.0	210.0	-2.1	-7.3	3.8	6.6
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	161.8	164.0	153.0	217.6	229.0	230.0	1.3	-5.8	5.0	5.4
						Mean	0.4	-4.6	3.1	4.3

Fabric Code :I/CB Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	156.2	159.0	148.0	214.2	221.0	226.0	1.8	-5.5	3.1	5.2
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	170.0	168.0	166.0	235.6	234.0	242.0	-1.2	-2.4	-0.7	2.6
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	150.6	150.0	141.0	203.5	211.0	217.0	-0.4	-6.8	3.6	6.2
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	159.4	163.0	157.0	224.0	227.0	228.0	2.2	-1.5	1.3	1.8
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	138.2	142.0	131.0	195.0	204.0	205.0	2.7	-5.5	4.4	4.9
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	149.4	150.0	143.0	205.0	214.0	214.0	0.4	-4.5	4.2	4.2
						Mean	0.9	-4.4	2.6	4.2

Table : 20

Comparison of Measured and Calculated Weights.

Fabric Code :I/WD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	155.4	157.0	154.0	213.8	220.0	215.0	1.0	-0.9	2.8	0.6
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	183.5	181.0	178.0	243.0	230.0	250.0	-1.4	-3.1	-5.7	2.8
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	157.0	155.0	150.0	210.6	207.0	221.0	-1.3	-4.7	-1.7	4.7
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	165.0	179.0	168.0	228.8	230.0	225.0	7.8	1.8	0.5	-1.7
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	142.4	148.0	139.0	193.6	197.0	198.0	3.8	-2.4	1.7	2.2
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	163.8	164.0	152.0	210.2	213.0	227.0	0.1	-7.8	1.3	7.4
						Mean	1.7	-2.8	-0.2	2.7

Fabric Code :I/JD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	166.4	175.0	164.0	222.4	228.0	225.0	4.9	-1.5	2.5	1.2
2	175.0	187.0	167.0	224.8	232.0	236.0	6.4	-4.8	3.1	4.7
3	190.6	187.0	185.0	241.2	236.0	248.0	-1.9	-3.0	-2.2	2.7
4	196.8	204.0	190.0	252.0	254.0	260.0	3.5	-3.6	0.8	3.1
5	213.0	216.0	210.0	265.8	259.0	269.0	1.4	-1.4	-2.6	1.2
6	149.4	155.0	148.0	207.6	211.0	209.0	3.6	-0.9	1.6	0.7
7	163.8	165.0	157.0	210.8	213.0	220.0	0.7	-4.3	1.0	4.2
8	168.2	167.0	165.0	223.0	207.0	227.0	-0.7	-1.9	-7.7	1.8
9	180.4	169.0	167.0	220.0	222.0	237.0	-6.7	-8.0	0.9	7.2
10	186.6	193.0	189.0	244.6	230.0	241.0	3.3	1.3	-6.3	-1.5
11	141.8	143.0	135.0	184.9	190.0	194.0	0.8	-5.0	2.7	4.7
12	152.4	161.0	145.0	194.6	193.0	205.0	5.3	-5.1	-0.8	5.1
13	158.6	159.0	152.0	202.3	208.0	211.0	0.3	-4.3	2.7	4.1
14	161.8	168.0	153.0	208.0	209.0	220.0	3.7	-5.8	0.5	5.5
15	174.0	173.0	166.0	214.8	215.0	225.0	-0.6	-4.8	0.1	4.5
						Mean	1.6	-3.6	-0.3	3.3

Table : 21

Comparison of Measured and Calculated Weights.

Fabric Code :I/CBT Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	167.4	169.0	159.0	209.0	215.0	220.0	0.9	-5.3	2.8	5.0
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	183.6	188.0	180.0	226.0	234.0	231.0	2.3	-2.0	3.4	2.2
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	155.0	164.0	148.0	194.6	214.0	203.0	5.5	-4.7	9.1	4.1
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	171.2	171.0	170.0	216.0	214.0	217.0	-0.1	-0.7	-0.9	0.5
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	151.2	155.0	143.0	185.2	198.0	196.0	2.5	-5.7	6.5	5.5
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	160.8	176.0	157.0	196.6	216.0	202.0	8.6	-2.4	9.0	2.7
						Mean	3.3	-3.5	5.0	3.3

Fabric Code :I/WDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	158.6	162.0	158.0	220.2	225.0	222.0	2.1	-0.4	2.1	0.8
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	172.2	174.0	174.0	235.2	240.0	232.0	1.0	1.0	2.0	-1.4
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	145.8	151.0	146.0	203.8	214.0	203.0	3.4	0.1	4.8	-0.4
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	168.4	169.0	167.0	221.6	223.0	223.0	0.4	-0.8	0.6	0.6
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	146.2	144.0	138.0	193.8	198.0	205.0	-1.5	-5.9	2.1	5.5
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	165.0	166.0	156.0	208.6	219.0	220.0	0.6	-5.8	4.7	5.2
						Mean	1.0	-2.0	2.7	1.7

Table : 22

Comparison of Measured and Calculated Weights.

Fabric Code :I/WBT Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	169.0	174.0	167.0	209.8	216.0	212.0	2.9	-1.2	2.9	1.0
2	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
3	186.2	205.0	187.0	226.6	232.0	226.0	9.2	0.4	2.3	-0.3
4	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
5	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
6	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
7	169.2	170.0	163.0	205.6	216.0	214.0	0.5	-3.8	4.8	3.9
8	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
9	178.6	196.0	177.0	216.8	217.0	219.0	8.9	-0.9	0.1	1.0
10	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
11	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
12	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
13	154.6	154.0	157.0	195.2	193.0	193.0	-0.4	1.5	-1.1	-1.1
14	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)	(n.a.)
15	176.4	172.0	173.0	210.0	206.0	214.0	-2.6	-2.0	-1.9	1.9
						Mean	3.1	-1.0	1.2	1.1

Fabric Code :I/JDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	161.4	168.0	154.0	215.8	227.0	226.0	3.9	-4.8	4.9	4.5
2	166.8	168.0	166.0	226.8	228.0	228.0	0.7	-0.5	0.5	0.5
3	176.2	186.0	176.0	234.4	247.0	234.0	5.3	-0.1	5.1	-0.2
4	194.0	195.0	188.0	243.0	254.0	251.0	0.5	-3.2	4.3	3.2
5	197.2	204.0	199.0	256.2	262.0	254.0	3.3	0.9	2.2	-0.9
6	144.0	149.0	142.0	205.2	212.0	208.0	3.4	-1.4	3.2	1.3
7	145.4	156.0	149.0	210.0	218.0	205.0	6.8	2.4	3.7	-2.4
8	164.8	172.0	159.0	216.4	225.0	224.0	4.2	-3.6	3.8	3.4
9	166.0	176.0	172.0	227.4	230.0	219.0	5.7	3.5	1.1	-3.8
10	181.2	185.0	181.0	233.2	235.0	234.0	2.1	-0.1	0.8	0.3
11	131.6	137.0	128.0	188.8	197.0	195.0	3.9	-2.8	4.2	3.2
12	131.6	142.0	135.0	195.8	203.0	190.0	7.3	2.5	3.5	-3.1
13	141.6	149.0	141.0	198.4	204.0	199.0	5.0	-0.4	2.7	0.3
14	154.6	161.0	152.0	206.2	210.0	210.0	4.0	-1.7	1.8	1.8
15	167.2	171.0	164.0	214.4	215.0	219.0	2.2	-2.0	0.3	2.1
						Mean	3.9	-0.8	2.8	0.7

Table : 23

Comparison of Measured and Calculated Weights.

Fabric Code :I/MJD Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	198.9	200.0	187.0	258.0	262.0	274.0	0.6	-6.4	1.5	5.8
2	184.4	201.0	199.0	275.0	270.0	255.0	8.3	7.3	-1.9	-7.8
3	209.9	207.0	205.0	282.6	277.0	289.0	-1.4	-2.4	-2.0	2.2
4	233.2	213.0	217.0	287.2	283.0	308.0	-9.5	-7.5	-1.5	6.8
5	233.9	241.0	233.0	307.0	302.0	308.0	2.9	-0.4	-1.7	0.3
6	168.4	168.0	167.0	236.6	239.0	238.0	-0.2	-0.8	1.0	0.6
7	175.2	179.0	177.0	247.8	243.0	245.0	2.1	1.0	-2.0	-1.1
8	186.4	185.0	191.0	254.0	247.0	248.0	-0.8	2.4	-2.8	-2.4
9	199.0	192.0	201.0	270.2	269.0	267.0	-3.6	1.0	-0.4	-1.2
10	205.4	208.0	208.0	275.2	269.0	271.0	1.3	1.3	-2.3	-1.5
11	164.4	171.0	154.0	209.0	218.0	224.0	3.9	-6.8	4.1	6.7
12	174.2	164.0	169.0	229.0	227.0	235.0	-6.2	-3.1	-0.9	2.6
13	173.4	179.0	173.0	235.0	239.0	236.0	3.1	-0.2	1.7	0.4
14	187.2	193.0	184.0	245.6	241.0	250.0	3.0	-1.7	-1.9	1.8
15	198.8	209.0	199.0	256.0	261.0	256.0	4.9	0.1	1.9	0.0
						Mean	0.6	-1.1	-0.5	0.9

Fabric Code :I/MJDH Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	193.4	192.0	186.0	253.4	262.0	264.0	-0.7	-4.0	3.3	4.0
2	194.0	201.0	206.0	274.5	259.0	259.0	3.5	5.8	-6.0	-6.0
3	206.0	212.0	217.0	284.0	278.0	269.0	2.8	5.1	-2.2	-5.6
4	205.0	211.0	223.0	283.4	271.0	260.0	2.8	8.1	-4.6	-9.0
5	229.2	235.0	234.0	301.2	295.0	294.0	2.5	2.1	-2.1	-2.4
6	159.0	176.0	177.0	235.4	240.0	211.0	9.7	10.2	1.9	-11.6
7	175.6	186.0	183.0	244.0	243.0	234.0	5.6	4.0	-0.4	-4.3
8	186.2	196.0	192.0	255.6	259.0	248.0	5.0	3.0	1.3	-3.1
9	199.2	204.0	209.0	270.8	268.0	258.0	2.4	4.7	-1.0	-5.0
10	205.4	218.0	215.0	272.8	273.0	260.0	5.8	4.5	0.1	-4.9
11	153.0	167.0	152.0	203.8	216.0	205.0	8.4	-0.7	5.6	0.6
12	155.0	166.0	166.0	221.6	223.0	207.0	6.6	6.6	0.6	-7.1
13	174.6	178.0	177.0	240.3	228.0	237.0	1.9	1.4	-5.4	-1.4
14	193.0	186.0	184.0	235.4	242.0	247.0	-3.8	-4.9	2.7	4.7
15	188.0	192.0	198.0	249.6	242.0	237.0	2.1	5.1	-3.1	-5.3
						Mean	3.6	3.4	-0.6	-3.8

Table : 24

Comparison of Measured and Calculated Weights.

Fabric Code :I/JDX2 Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	142.2	148.0	136.0	167.5	186.0	175.0	3.9	-4.6	9.9	4.3
2	153.8	164.0	154.0	183.5	202.0	183.0	6.2	0.1	9.2	-0.3
3	157.6	174.0	159.0	191.0	212.0	189.0	9.4	0.9	9.9	-1.1
4	164.4	180.0	163.0	196.0	215.0	197.0	8.7	-0.9	8.8	0.5
5	184.2	197.0	176.0	209.5	250.0	219.0	6.5	-4.7	16.2	4.3
6	125.6	141.0	122.0	150.5	177.0	155.0	10.9	-3.0	15.0	2.9
7	124.8	143.0	131.0	160.5	183.0	153.0	12.7	4.7	12.3	-4.9
8	145.8	154.0	141.0	169.0	187.0	175.0	5.3	-3.4	9.6	3.4
9	154.6	174.0	147.0	173.5	206.0	182.0	11.1	-5.2	15.8	4.7
10	164.8	177.0	159.0	185.0	210.0	192.0	6.9	-3.6	11.9	3.6
11	109.8	123.0	110.0	133.0	158.0	133.0	10.7	0.2	15.8	0.0
12	113.4	128.0	118.0	142.0	169.0	137.0	11.4	3.9	16.0	-3.6
13	122.0	138.0	120.0	146.5	171.0	149.0	11.6	-1.7	14.3	1.7
14	137.4	153.0	135.0	159.5	182.0	162.0	10.2	-1.8	12.4	1.5
15	137.7	156.0	142.0	170.0	201.0	165.0	11.7	3.0	15.4	-3.0
						Mean	9.2	-1.1	12.8	0.9

Fabric Code :I/MJDX2 Method of Weighing : Beta Gauge

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	171.4	186.0	182.0	218.2	220.0	206.0	7.8	5.8	0.8	-5.9
2	180.6	191.0	182.0	219.8	227.0	218.0	5.4	0.8	3.2	-0.8
3	196.0	206.0	194.0	227.4	239.0	230.0	4.9	-1.0	4.9	1.1
4	199.4	214.0	197.0	231.8	251.0	234.0	6.8	-1.2	7.6	0.9
5	221.2	238.0	234.0	271.6	267.0	257.0	7.1	5.5	-1.7	-5.7
6	174.0	172.0	161.0	195.4	199.0	212.0	-1.2	-8.1	1.8	7.8
7	170.8	184.0	170.0	202.8	207.0	204.0	7.2	-0.5	2.0	0.6
8	174.0	188.0	182.0	215.0	224.0	205.0	7.4	4.4	4.0	-4.9
9	186.0	202.0	189.0	224.8	229.0	221.0	7.9	1.6	1.8	-1.7
10	194.8	202.0	198.0	229.0	238.0	226.0	3.6	1.6	3.8	-1.3
11	139.6	157.0	145.0	175.6	185.0	169.0	11.1	3.7	5.1	-3.9
12	148.2	159.0	151.0	184.0	189.0	181.0	6.8	1.9	2.6	-1.7
13	159.2	171.0	166.0	198.6	205.0	191.0	6.9	4.1	3.1	-4.0
14	170.0	187.0	183.0	213.6	214.0	199.0	9.1	7.1	0.2	-7.3
15	184.6	189.0	187.0	219.0	215.0	216.0	2.3	1.3	-1.9	-1.4
						Mean	6.2	1.8	2.5	-1.9

Table : 25

Comparison of Measured and Calculated Weights.

Fabric Code : I/JDX1 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	170.1	159.0	159.0	206.1	210.0	220.0	-7.0	-7.0	1.9	6.3
2	173.6	168.0	163.0	206.3	210.0	220.0	-3.3	-6.5	1.8	6.2
3	182.3	184.0	176.0	222.5	235.0	230.0	0.9	-3.6	5.3	3.3
4	190.1	185.0	184.0	231.2	231.0	239.0	-2.8	-3.3	-0.1	3.3
5	202.5	226.0	196.0	240.2	282.0	248.0	10.4	-3.3	14.8	3.1
6	147.6	147.0	141.0	188.1	196.0	197.0	-0.4	-4.7	4.0	4.5
7	149.8	155.0	148.0	191.5	196.0	194.0	3.4	-1.2	2.3	1.3
8	166.7	154.0	154.0	202.2	207.0	220.0	-8.2	-8.2	2.3	8.1
9	177.2	175.0	168.0	213.2	214.0	225.0	-1.3	-5.5	0.4	5.2
10	183.3	200.0	178.0	220.6	250.0	227.0	8.4	-3.0	11.8	2.8
11	131.0	129.0	121.0	165.4	175.0	179.0	-1.6	-8.3	5.5	7.6
12	138.4	141.0	133.0	175.3	179.0	182.0	1.8	-4.1	2.1	3.7
13	151.9	155.0	146.0	186.2	198.0	194.0	2.0	-4.0	6.0	4.0
14	154.5	161.0	153.0	193.9	208.0	196.0	4.0	-1.0	6.8	1.1
15	169.0	174.0	162.0	199.0	217.0	208.0	2.9	-4.3	8.3	4.3
						Mean	0.6	-4.5	4.9	4.3

Fabric Code : I/MJDX1 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	190.5	200.0	183.0	228.8	236.0	238.0	4.8	-4.1	3.1	3.9
2	203.1	207.0	195.0	244.0	252.0	254.0	1.9	-4.2	3.2	3.9
3	218.7	226.0	212.0	254.1	255.0	262.0	3.2	-3.2	0.4	3.0
4	228.2	237.0	226.0	267.5	271.0	270.0	3.7	-1.0	1.3	0.9
5	240.5	243.0	235.0	277.4	281.0	284.0	1.0	-2.3	1.3	2.3
6	179.4	182.0	170.0	210.7	216.0	223.0	1.4	-5.5	2.5	5.5
7	192.7	191.0	184.0	225.1	233.0	236.0	-0.9	-4.7	3.4	4.6
8	197.7	201.0	189.0	229.9	232.0	241.0	1.6	-4.6	0.9	4.6
9	209.4	216.0	205.0	248.8	257.0	254.0	3.1	-2.1	3.2	2.0
10	217.5	221.0	211.0	253.1	258.0	261.0	1.6	-3.1	1.9	3.0
11	167.5	170.0	153.0	187.1	199.0	205.0	1.5	-9.5	6.0	8.7
12	170.3	172.0	159.0	200.9	208.0	215.0	1.0	-7.1	3.4	6.6
13	184.1	185.0	178.0	215.3	218.0	223.0	0.5	-3.4	1.2	3.5
14	189.4	194.0	183.0	220.8	232.0	229.0	2.4	-3.5	4.8	3.6
15	197.8	204.0	194.0	232.2	239.0	237.0	3.0	-2.0	2.8	2.0
						Mean	2.0	-4.0	2.6	3.9

Table : 26

Comparison of Measured and Calculated Weights.

Fabric Code : I/JDS Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	161.8	165.0	158.0	212.1	220.0	217.0	1.9	-2.4	3.6	2.3
2	172.9	173.0	165.0	222.0	237.0	233.0	0.1	-4.8	6.3	4.7
3	187.1	192.0	184.0	240.9	246.0	245.0	2.6	-1.7	2.1	1.7
4	198.1	197.0	189.0	245.1	240.0	256.0	-0.6	-4.8	-2.1	4.3
5	209.5	212.0	213.0	264.6	254.0	260.0	1.2	1.6	-4.2	-1.8
6	148.7	151.0	143.0	197.5	203.0	205.0	1.5	-4.0	2.7	3.7
7	154.2	158.0	152.0	208.7	200.0	211.0	2.4	-1.4	-4.3	1.1
8	158.5	162.0	159.0	212.1	213.0	212.0	2.2	0.3	0.4	0.0
9	170.6	177.0	167.0	218.2	231.0	222.0	3.6	-2.2	5.5	1.7
10	186.9	193.0	184.0	233.2	230.0	237.0	3.2	-1.6	-1.4	1.6
11	127.2	136.0	123.0	178.6	180.0	185.0	6.5	-3.4	0.8	3.5
12	141.6	142.0	134.0	189.1	192.0	200.0	0.3	-5.7	1.5	5.5
13	144.6	155.0	143.0	195.9	203.0	199.0	6.7	-1.1	3.5	1.6
14	154.3	158.0	151.0	204.3	204.0	209.0	2.3	-2.2	-0.1	2.2
15	155.9	168.0	157.0	214.7	221.0	213.0	7.2	0.7	2.9	-0.8
						Mean	2.7	-2.2	1.1	2.1

Fabric Code : I/MJDS Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	194.3	202.0	194.0	243.3	250.0	243.0	3.8	-0.2	2.7	-0.1
2	203.9	210.0	200.0	257.4	255.0	263.0	2.9	-1.9	-0.9	2.1
3	213.5	225.0	216.0	271.0	264.0	268.0	5.1	1.2	-2.7	-1.1
4	234.5	227.0	229.0	273.0	271.0	280.0	-3.3	-2.4	-0.7	2.5
5	249.5	246.0	245.0	295.0	288.0	300.0	-1.4	-1.8	-2.4	1.7
6	171.8	186.0	177.0	226.4	231.0	220.0	7.6	2.9	2.0	-2.9
7	183.2	183.0	185.0	237.3	242.0	235.0	-0.1	1.0	1.9	-1.0
8	194.5	207.0	196.0	252.4	238.0	251.0	6.0	0.8	-6.1	-0.6
9	208.9	209.0	205.0	258.1	251.0	262.0	0.0	-1.9	-2.8	1.5
10	219.1	218.0	220.0	271.9	267.0	271.0	-0.5	0.4	-1.8	-0.3
11	158.3	160.0	157.0	205.6	209.0	207.0	1.1	-0.8	1.6	0.7
12	162.0	172.0	163.0	211.8	215.0	211.0	5.8	0.6	1.5	-0.4
13	179.5	190.0	184.0	226.6	227.0	221.0	5.5	2.4	0.2	-2.5
14	186.7	190.0	187.0	236.2	232.0	236.0	1.8	0.2	-1.8	-0.1
15	201.0	200.0	199.0	243.8	248.0	246.0	-0.5	-1.0	1.7	0.9
						Mean	2.3	0.0	-0.5	0.0

Table : 27

Comparison of Measured and Calculated Weights.

Fabric Code :I/EJD Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	157.1	159.0	154.0	226.3	230.0	231.0	1.2	-2.0	1.6	2.0
2	161.8	169.0	161.0	232.9	233.0	234.0	4.3	-0.5	0.0	0.5
3	177.0	177.0	174.0	240.6	244.0	244.0	0.0	-1.7	1.4	1.4
4	184.8	179.0	180.0	247.9	238.0	254.0	-3.2	-2.7	-4.2	2.4
5	196.0	197.0	196.0	263.5	262.0	264.0	0.5	0.0	-0.6	0.2
6	140.0	138.0	139.0	208.0	208.0	209.0	-1.4	-0.7	0.0	0.5
7	148.8	151.0	144.0	209.9	212.0	218.0	1.5	-3.3	1.0	3.7
8	158.5	162.0	154.0	217.8	219.0	224.0	2.2	-2.9	0.5	2.8
9	160.9	168.0	160.0	224.3	237.0	226.0	4.2	-0.6	5.4	0.8
10	173.8	180.0	172.0	235.8	243.0	238.0	3.4	-1.0	3.0	0.9
11	127.5	124.0	121.0	189.9	191.0	200.0	-2.8	-5.4	0.6	5.1
12	132.2	139.0	133.0	193.3	198.0	192.0	4.9	0.6	2.4	-0.7
13	144.0	137.0	138.0	203.1	203.0	211.0	-5.1	-4.3	0.0	3.7
14	146.0	155.0	145.0	210.2	207.0	212.0	5.8	-0.7	-1.5	0.8
15	155.4	157.0	154.0	216.4	220.0	219.0	1.0	-0.9	1.6	1.2
						Mean	1.1	-1.7	0.7	1.7

Fabric Code :I/WD2 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	159.6	161.0	149.0	217.0	223.0	232.0	0.9	-7.1	2.7	6.5
2	163.4	164.0	157.0	226.0	229.0	235.0	0.4	-4.1	1.3	3.8
3	175.5	170.0	171.0	236.1	241.0	243.0	-3.2	-2.6	2.0	2.8
4	183.2	179.0	176.0	242.5	236.0	252.0	-2.3	-4.1	-2.8	3.8
5	195.1	192.0	189.0	254.4	256.0	263.0	-1.6	-3.2	0.6	3.3
6	145.0	141.0	137.0	200.1	208.0	211.0	-2.8	-5.8	3.8	5.2
7	149.2	152.0	141.0	201.1	208.0	213.0	1.8	-5.8	3.3	5.6
8	157.6	158.0	150.0	213.0	218.0	224.0	0.3	-5.1	2.3	4.9
9	170.6	168.0	162.0	225.2	232.0	238.0	-1.5	-5.3	2.9	5.4
10	174.5	175.0	168.0	234.2	233.0	243.0	0.3	-3.9	-0.5	3.6
11	128.2	127.0	120.0	184.2	187.0	196.0	-0.9	-6.8	1.5	6.0
12	135.3	134.0	126.0	188.3	194.0	201.0	-1.0	-7.4	2.9	6.3
13	146.2	142.0	138.0	198.8	210.0	210.0	-3.0	-5.9	5.3	5.3
14	151.4	151.0	146.0	204.6	215.0	212.0	-0.3	-3.7	4.8	3.5
15	162.3	161.0	157.0	216.0	212.0	223.0	-0.8	-3.4	-1.9	3.1
						Mean	-0.9	-5.0	1.9	4.6

Table : 28

Comparison of Measured and Calculated Weights.

Fabric Code :I/JDX3 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	152.3	158.0	145.0	184.5	197.0	193.0	3.6	-5.0	6.3	4.4
2	163.9	169.0	154.0	192.2	205.0	205.0	3.0	-6.4	6.2	6.2
3	182.4	183.0	170.0	210.4	224.0	225.0	0.3	-7.3	6.1	6.5
4	187.3	187.0	177.0	215.3	221.0	228.0	-0.2	-5.8	2.6	5.6
5	205.0	202.0	194.0	234.8	241.0	248.0	-1.5	-5.7	2.6	5.3
6	141.0	148.0	135.0	170.7	179.0	178.0	4.7	-4.4	4.6	4.1
7	144.1	147.0	136.0	174.3	185.0	185.0	2.0	-6.0	5.8	5.8
8	162.1	166.0	149.0	186.4	197.0	203.0	2.3	-8.8	5.4	8.2
9	169.1	165.0	160.0	195.4	199.0	207.0	-2.5	-5.7	1.8	5.6
10	181.4	180.0	174.0	208.5	213.0	218.0	-0.8	-4.3	2.1	4.4
11	130.4	136.0	121.0	151.7	169.0	163.0	4.1	-7.8	10.2	6.9
12	135.2	138.0	125.0	159.2	168.0	172.0	2.0	-8.2	5.2	7.4
13	144.9	151.0	138.0	171.9	180.0	180.0	4.0	-5.0	4.5	4.5
14	151.9	158.0	147.0	180.1	190.0	186.0	3.9	-3.3	5.2	3.2
15	158.8	167.0	149.0	181.1	194.0	193.0	4.9	-6.6	6.6	6.2
						Mean	2.0	-6.0	5.0	5.6

Fabric Code :I/JDX3E Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	153.3	163.0	154.0	188.3	197.0	188.0	6.0	0.5	4.4	-0.2
2	156.9	154.0	154.0	189.4	192.0	193.0	-1.9	-1.9	1.4	1.9
3	168.1	170.0	163.0	200.5	203.0	207.0	1.1	-3.1	1.2	3.1
4	182.3	196.0	181.0	218.0	224.0	220.0	7.0	-0.7	2.7	0.9
5	185.7	194.0	185.0	229.6	234.0	231.0	4.3	-0.4	1.9	0.6
6	146.6	154.0	138.0	171.9	176.0	183.0	4.8	-6.2	2.3	6.1
7	142.2	143.0	136.0	172.0	174.0	180.0	0.6	-4.6	1.1	4.4
8	152.8	151.0	148.0	180.5	186.0	186.0	-1.2	-3.2	3.0	3.0
9	164.5	164.0	156.0	189.2	190.0	200.0	-0.3	-5.4	0.4	5.4
10	177.6	178.0	172.0	206.3	211.0	213.0	0.2	-3.3	2.2	3.1
11	133.6	132.0	125.0	153.3	159.0	163.0	-1.2	-6.9	3.6	6.0
12	127.2	129.0	119.0	155.2	158.0	166.0	1.4	-6.9	1.8	6.5
13	138.5	133.0	129.0	163.4	173.0	175.0	-4.1	-7.4	5.5	6.6
14	143.6	145.0	141.0	173.1	175.0	177.0	1.0	-1.8	1.1	2.2
15	162.2	162.0	157.0	185.8	189.0	192.0	-0.1	-3.3	1.7	3.2
						Mean	1.2	-3.6	2.3	3.5

Table : 29

Comparison of Measured and Calculated Weights.

Fabric Code :I/MJDX3 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	192.4	198.0	188.0	229.0	238.0	234.0	2.8	-2.3	3.8	2.1
2	199.3	207.0	196.0	240.1	246.0	244.0	3.7	-1.7	2.4	1.6
3	210.7	219.0	209.0	253.2	261.0	256.0	3.8	-0.8	3.0	1.1
4	220.5	192.0	216.0	258.8	266.0	264.0	-14.8	-2.1	2.7	2.0
5	239.0	239.0	233.0	278.6	287.0	286.0	0.0	-2.6	2.9	2.6
6	177.2	180.0	171.0	210.9	215.0	218.0	1.6	-3.6	1.9	3.3
7	176.8	187.0	182.0	221.0	235.0	215.0	5.5	2.9	6.0	-2.8
8	193.9	200.0	187.0	227.6	239.0	237.0	3.1	-3.7	4.8	4.0
9	212.1	216.0	204.0	243.8	250.0	253.0	1.8	-4.0	2.5	3.6
10	213.9	213.0	210.0	249.7	253.0	254.0	-0.4	-1.9	1.3	1.7
11	150.1	155.0	146.0	184.0	188.0	190.0	3.2	-2.8	2.1	3.2
12	164.4	164.0	159.0	196.6	201.0	204.0	-0.2	-3.4	2.2	3.6
13	179.2	185.0	174.0	210.5	222.0	216.0	3.1	-3.0	5.2	2.5
14	188.0	192.0	184.0	220.1	229.0	225.0	2.1	-2.2	3.9	2.2
15	200.1	185.0	194.0	230.0	230.0	237.0	-8.2	-3.1	0.0	3.0
						Mean	0.5	-2.3	3.0	2.2

Fabric Code :I/MJDX3E Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	% Difference in Weights b-a	c-a	e-d	f-d
1	176.4	191.0	185.0	223.8	224.0	214.0	7.6	4.6	0.1	-4.6
2	192.6	174.0	197.0	233.0	240.0	228.0	-10.7	2.2	2.9	-2.2
3	199.5	198.0	199.0	242.7	252.0	243.0	-0.8	-0.3	3.7	0.1
4	206.3	183.0	201.0	245.8	221.0	252.0	-12.7	-2.6	-11.2	2.5
5	219.3	222.0	215.0	264.0	273.0	269.0	1.2	-2.0	3.3	1.9
6	164.4	160.0	162.0	199.3	202.0	203.0	-2.7	-1.5	1.3	1.8
7	167.1	172.0	165.0	208.1	216.0	210.0	2.8	-1.3	3.7	0.9
8	181.6	184.0	175.0	216.1	231.0	224.0	1.3	-3.8	6.5	3.5
9	199.7	199.0	188.0	231.4	241.0	246.0	-0.4	-6.2	4.0	5.9
10	197.5	224.0	199.0	240.8	273.0	239.0	11.8	0.8	11.8	-0.8
11	149.4	150.0	144.0	180.8	191.0	188.0	0.4	-3.7	5.3	3.8
12	150.1	144.0	147.0	184.4	191.0	188.0	-4.2	-2.1	3.5	1.9
13	160.5	168.0	161.0	196.3	203.0	196.0	4.5	0.3	3.3	-0.2
14	176.1	184.0	177.0	213.6	219.0	213.0	4.3	0.5	2.5	-0.3
15	185.6	215.0	178.0	216.7	217.0	226.0	13.7	-4.3	0.1	4.1
						Mean	1.1	-1.3	2.7	1.2

Table : 30

Comparison of Measured and Calculated Weights.

Fabric Code :I/JDX4 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	154.0	159.0	147.0	176.8	183.0	186.0	3.1	-4.8	3.4	4.9
2	160.6	166.0	156.0	184.6	186.0	190.0	3.3	-2.9	0.8	2.8
3	172.9	179.0	163.0	194.4	197.0	207.0	3.4	-6.1	1.3	6.1
4	178.9	175.0	171.0	203.2	203.0	213.0	-2.2	-4.6	-0.1	4.6
5	189.5	196.0	182.0	216.7	220.0	226.0	3.3	-4.1	1.5	4.1
6	141.8	146.0	133.0	162.6	164.0	174.0	2.9	-6.6	0.9	6.6
7	138.9	143.0	135.0	163.7	160.0	168.0	2.9	-2.9	-2.3	2.6
8	157.2	156.0	146.0	177.0	178.0	190.0	-0.8	-7.7	0.6	6.8
9	164.5	177.0	158.0	186.8	192.0	195.0	7.1	-4.1	2.7	4.2
10	170.4	176.0	164.0	193.4	197.0	201.0	3.2	-3.9	1.8	3.8
11	128.5	117.0	116.0	142.2	145.0	157.0	-9.8	-10.8	1.9	9.4
12	129.9	169.0	120.0	149.2	153.0	161.0	23.1	-8.2	2.5	7.3
13	132.1	145.0	133.0	159.6	159.0	158.0	8.9	0.7	-0.4	-1.0
14	148.1	144.0	140.0	167.8	167.0	177.0	-2.8	-5.8	-0.5	5.2
15	155.7	163.0	146.0	172.5	170.0	184.0	4.5	-6.6	-1.5	6.3
						Mean	3.3	-5.2	0.8	4.9

Fabric Code :I/MJDX4 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	193.6	186.0	182.0	215.3	228.0	229.0	-4.1	-6.4	5.6	6.0
2	193.5	197.0	191.0	224.5	230.0	227.0	1.8	-1.3	2.4	1.1
3	209.1	209.0	199.0	233.5	240.0	245.0	0.0	-5.1	2.7	4.7
4	226.6	220.0	219.0	249.4	253.0	258.0	-3.0	-3.5	1.4	3.3
5	233.7	228.0	227.0	260.0	263.0	268.0	-2.5	-3.0	1.1	3.0
6	169.9	177.0	165.0	194.5	201.0	200.0	4.0	-3.0	3.2	2.8
7	174.8	173.0	164.0	196.8	202.0	210.0	-1.0	-6.6	2.6	6.3
8	191.8	184.0	186.0	216.9	217.0	224.0	-4.2	-3.1	0.0	3.2
9	192.5	191.0	191.0	223.8	226.0	226.0	-0.8	-0.8	1.0	1.0
10	212.4	213.0	206.0	234.4	237.0	242.0	0.3	-3.1	1.1	3.1
11	159.4	157.0	152.0	179.7	189.0	189.0	-1.5	-4.9	4.9	4.9
12	161.2	155.0	153.0	182.3	189.0	192.0	-4.0	-5.4	3.5	5.1
13	177.7	172.0	167.0	198.0	206.0	210.0	-3.3	-6.4	3.9	5.7
14	182.7	176.0	172.0	202.2	205.0	215.0	-3.8	-6.2	1.4	6.0
15	193.1	191.0	187.0	216.1	217.0	223.0	-1.1	-3.3	0.4	3.1
						Mean	-1.6	-4.1	2.4	3.9

Table : 31

Comparison of Measured and Calculated Weights.

Fabric Code :I/JDX5 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	154.0	150.0	146.0	166.9	166.0	176.0	-2.7	-5.5	-0.5	5.2
2	163.0	155.0	155.0	175.9	178.0	185.0	-5.2	-5.2	1.2	4.9
3	170.9	168.0	158.0	182.4	200.0	197.0	-1.7	-8.2	8.8	7.4
4	171.2	176.0	167.0	191.8	204.0	196.0	2.7	-2.5	6.0	2.1
5	187.7	188.0	181.0	206.2	216.0	214.0	0.2	-3.7	4.5	3.6
6	139.1	140.0	135.0	154.2	162.0	159.0	0.6	-3.0	4.8	3.0
7	145.4	141.0	137.0	154.7	158.0	165.0	-3.1	-6.1	2.1	6.2
8	152.4	159.0	148.0	168.4	181.0	173.0	4.2	-3.0	7.0	2.7
9	167.7	165.0	156.0	173.8	173.0	187.0	-1.6	-7.5	-0.5	7.1
10	170.6	174.0	167.0	187.7	192.0	192.0	2.0	-2.2	2.2	2.2
11	124.8	128.0	120.0	138.5	144.0	144.0	2.5	-4.0	3.8	3.8
12	131.5	123.0	124.0	140.9	136.0	149.0	-6.9	-6.0	-3.6	5.4
13	138.1	137.0	130.0	150.2	161.0	160.0	-0.8	-6.2	6.7	6.1
14	148.5	146.0	141.0	161.0	170.0	170.0	-1.7	-5.3	5.3	5.3
15	153.2	154.0	152.0	171.1	167.0	173.0	0.5	-0.8	-2.5	1.1
						Mean	-0.7	-4.6	3.0	4.4

Fabric Code :I/MJDX5 Method of Weighing : Cut & Weigh

	Wt BW Meas. a	Wt BW Eq.1 b	Wt BW Eq.2 c	Wt AW Meas. d	Wt AW Eq.1 e	Wt AW Eq.2 f	b-a	% Difference in Weights c-a	e-d	f-d
1	190.1	186.0	177.0	206.5	211.0	222.0	-2.2	-7.4	2.1	7.0
2	189.7	180.0	183.0	213.5	217.0	221.0	-5.4	-3.7	1.6	3.4
3	211.5	206.0	203.0	231.6	232.0	241.0	-2.7	-4.2	0.2	3.9
4	222.3	224.0	218.0	240.6	246.0	246.0	0.8	-2.0	2.2	2.2
5	231.0	228.0	224.0	253.1	259.0	261.0	-1.3	-3.1	2.3	3.0
6	166.9	164.0	159.0	187.9	196.0	197.0	-1.8	-5.0	4.1	4.6
7	179.8	172.0	173.0	199.0	202.0	206.0	-4.5	-3.9	1.5	3.4
8	189.2	195.0	183.0	208.8	215.0	215.0	3.0	-3.4	2.9	2.9
9	208.7	203.0	197.0	223.4	227.0	237.0	-2.8	-5.9	1.6	5.7
10	208.4	205.0	197.0	223.1	227.0	236.0	-1.7	-5.8	1.7	5.5
11	149.5	156.0	143.0	169.2	179.0	177.0	4.2	-4.5	5.5	4.4
12	160.8	153.0	149.0	175.0	179.0	189.0	-5.1	-7.9	2.2	7.4
13	172.4	175.0	169.0	194.3	204.0	199.0	1.5	-2.0	4.8	2.4
14	184.6	172.0	177.0	201.2	202.0	209.0	-7.3	-4.3	0.4	3.7
15	191.1	188.0	185.0	209.6	213.0	217.0	-1.6	-3.3	1.6	3.4
						Mean	-1.8	-4.4	2.3	4.2

TABLE : 32

Average % Differences between Measured and Calculated Weights

Rib Fabrics

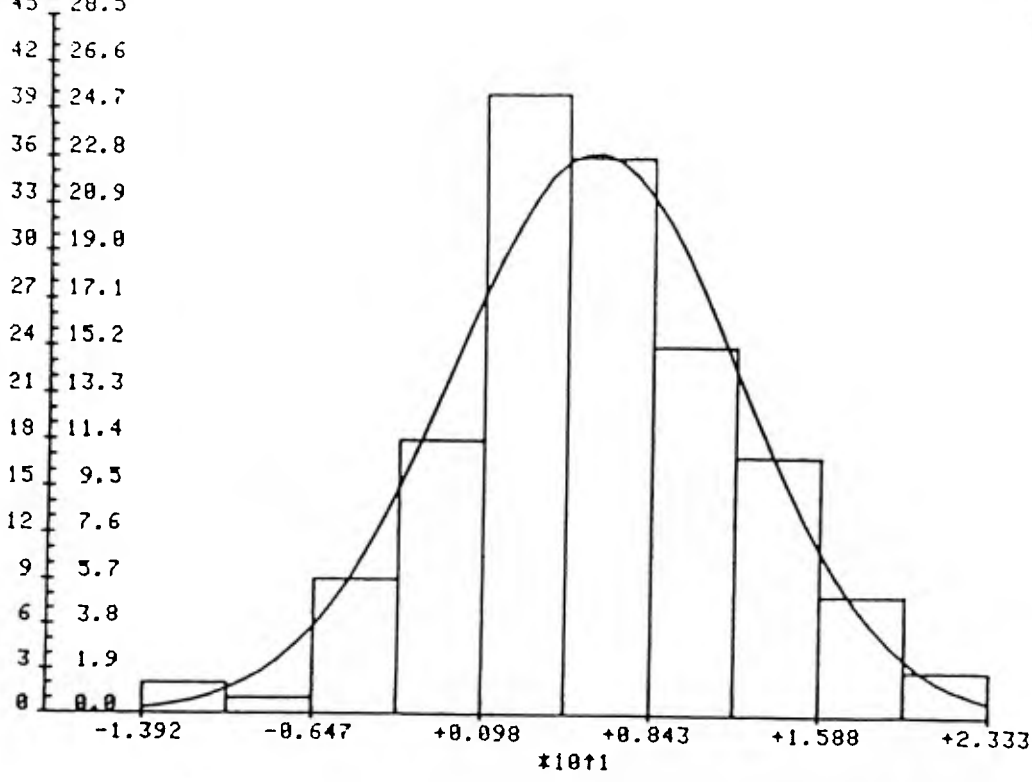
	Fabric Type	Eqn.1 - B.W.	st.d	Eqn.2 - B.W.	st.d	Eqn.1 - A.W.	st.d	Eqn.2 - A.W.	st.d
1	R/G	0.50	6.49	-7.48	6.39	6.04	3.43	6.71	5.12
2	R/M	-1.71	3.64	-5.04	2.77	2.24	3.03	4.76	2.55
3	R/WB	4.87	2.62	-4.33	4.76	2.57	1.58	3.85	4.27
4	R/WD	2.93	2.98	-0.05	3.01	1.48	2.24	-0.04	3.29
5	R/JD	3.13	3.10	-0.68	3.89	1.13	2.54	0.63	3.81
6	R/WDH	3.50	2.79	-1.06	3.49	3.40	2.86	0.92	3.59
7	R/WBT	7.38	5.17	1.77	2.88	3.94	1.25	-1.90	2.84
8	R/JDH	6.47	3.59	1.17	4.55	3.14	3.51	-1.41	4.48
9	R/MWB	2.99	2.88	-2.87	4.85	3.26	3.68	2.57	4.75
10	R/MJD	4.48	4.21	-0.62	3.14	1.83	4.10	0.46	3.06
11	R/MWBT	8.31	2.65	0.12	3.49	6.09	3.13	-0.23	3.44
12	R/MJDH	7.43	3.77	2.54	4.15	3.46	2.27	-2.76	4.39
13	R/JDX2	12.88	3.67	-1.22	3.77	11.90	3.84	1.15	3.58
14	R/MJDX2	16.20	3.83	0.36	5.90	13.24	3.48	-0.73	5.91
15	R/JDX1	-0.27	2.24	-6.98	3.00	3.36	2.68	6.41	2.62
16	R/MJDX1	-1.11	1.65	-4.12	1.86	1.61	1.93	3.95	1.69
17	R/JDS	-1.87	2.57	-6.60	5.21	2.31	7.95	6.02	4.22
18	R/MJDS	-1.13	3.55	-4.89	2.28	1.89	1.68	4.66	2.10
19	R/EJD	3.28	1.71	-2.69	2.00	3.81	1.91	2.59	1.86
20	R/WD2	3.09	1.68	-2.19	2.09	2.73	3.47	2.03	1.95
21	R/JDX3	0.65	3.44	-4.60	3.06	3.20	1.48	4.30	2.95
22	R/JDX3E	0.91	1.93	-2.89	2.07	1.32	1.53	2.71	1.91
23	R/MJDX3	-0.69	1.76	-7.25	2.22	3.84	3.38	6.67	1.89
24	R/MJDX3E	0.69	2.61	-2.17	1.99	3.28	1.93	2.19	1.95
25	R/JDX4	1.94	3.41	-1.32	3.08	2.44	1.52	1.26	2.94
26	R/MJDX4	0.87	4.58	-6.15	2.90	4.52	3.41	5.74	2.57
27	R/JDX5	-4.57	6.75	-4.91	2.98	-0.54	5.31	4.56	2.74
28	R/MJDX5	-2.31	5.04	-6.71	1.35	2.91	2.24	6.30	1.14

TABLE: 33

Average % Differences between Measured and Calculated Weights

Interlock Fabrics

	Fabric Type	Eqn.1 - B.W.	st.d	Eqn.2 - B.W.	st.d	Eqn.1 - A.W.	st.d	Eqn.2 - A.W.	st.d
1	I/G	2.15	3.06	-7.15	4.55	7.23	4.18	6.53	3.80
2	I/M	-7.52	2.48	-7.60	2.94	-0.38	2.33	7.04	2.48
3	I/WB	0.37	2.06	-4.59	1.94	3.10	1.33	4.35	1.62
4	I/CB	0.91	1.54	-4.38	2.03	2.65	1.97	4.15	1.67
5	I/WD	1.68	3.56	-2.85	3.25	-0.17	3.09	2.67	3.17
6	I/JD	1.60	3.37	-3.55	2.32	-0.26	3.24	3.27	2.26
7	I/CBT	3.29	3.23	-3.48	2.04	4.96	3.93	3.32	1.91
8	I/WDH	1.00	1.68	-1.96	3.08	2.73	1.67	1.72	2.90
9	I/WBT	3.07	4.93	-0.99	1.86	1.17	2.60	1.07	1.76
10	I/JDH	3.88	1.98	-0.76	2.39	2.82	1.61	0.69	2.48
11	I/MJD	0.55	4.48	-1.08	3.84	-0.47	2.03	0.87	3.79
12	I/MJDH	3.63	3.40	3.39	4.13	-0.61	3.34	-3.75	4.40
13	I/JDX2	9.16	2.73	-1.06	3.17	12.84	2.81	0.94	3.08
14	I/MJDX2	6.21	2.94	1.80	3.73	2.49	2.53	-1.88	3.75
15	I/JDX1	0.62	5.04	-4.53	2.22	4.87	4.22	4.32	2.06
16	I/MJDX1	1.99	1.41	-4.02	2.15	2.62	1.52	3.88	1.97
17	I/JDS	2.74	2.39	-2.17	2.11	1.14	3.18	2.07	2.02
18	I/MJDS	2.26	3.27	-0.04	1.61	-0.51	2.45	0.02	1.57
19	I/EJD	1.09	3.21	-1.75	1.68	0.74	2.13	1.69	1.57
20	I/WD2	-0.93	1.51	-4.95	1.51	1.90	2.28	4.61	1.24
21	I/JDX3	2.00	2.38	-6.01	1.52	5.02	2.17	5.62	1.36
22	I/JDX3E	1.16	3.09	-3.65	2.52	2.29	1.37	3.53	2.23
23	I/MJDX3	0.46	5.27	-2.29	1.66	2.97	1.54	2.24	1.62
24	I/MJDX3E	1.08	7.17	-1.29	2.77	2.71	4.76	1.24	2.67
25	I/JDX4	3.33	7.06	-5.23	2.69	0.84	1.58	4.91	2.44
26	I/MJDX4	-1.56	2.38	-4.12	1.87	2.35	1.64	3.94	1.71
27	I/JDX5	-0.74	3.02	-4.61	2.09	3.02	3.65	4.42	1.92
28	I/MJDX5	-1.80	3.16	-4.43	1.74	2.31	1.48	4.19	1.58



DESCRIPTIVE STATISTICS

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VARIANCE =	41.7810882737
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DATA MIN =	-13.92
DATA MAX =	23.3333333333
DATA RANGE =	37.2533333333
STANDARD ERR OF MEAN =	0.514234642508
COEFFICIENT OF VARIATION =	110.384212156
SKEWNESS =	0.108589527949
KURTOSIS =	3.32924493537

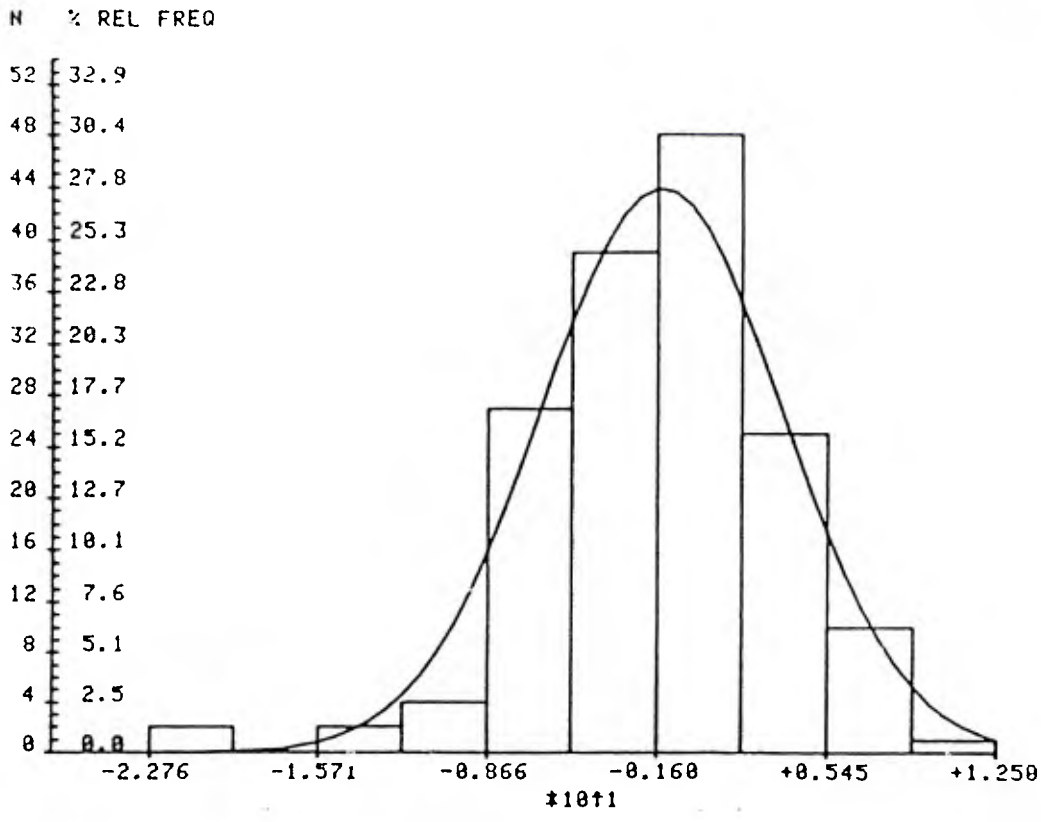
R.B

B.W.

B.GAUGE

% DIFFERENCES BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN 1)



DESCRIPTIVE STATISTICS

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VARIANCE =	25.6300824551
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DATA MIN =	-22.7586206897
DATA MAX =	12.5
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STANDARD ERR OF MEAN =	0.40276011687
COEFFICIENT OF VARIATION =	-348.947639918
SKEWNESS =	-0.854782146892
KURTOSIS =	5.62731395269

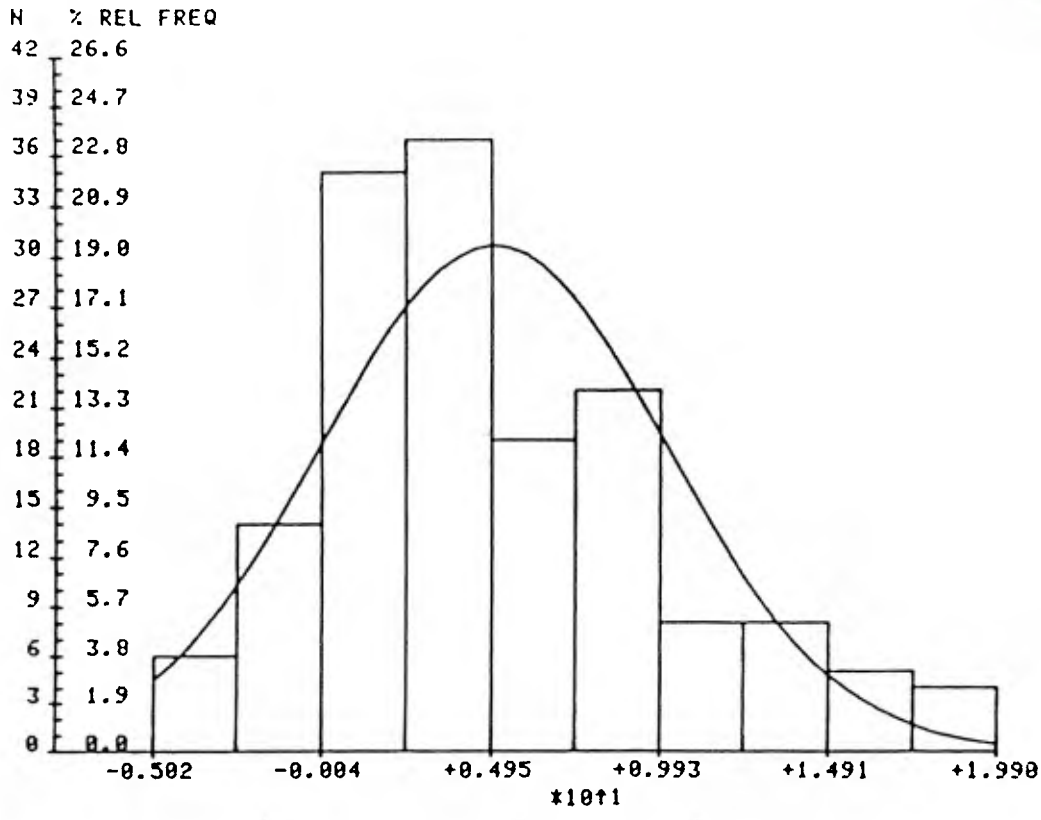
R.B

B.W.

B.GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 2)



DESCRIPTIVE STATISTICS

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MEAN =	5.00802222446
VARIANCE =	26.2657946797
STD DEV =	5.12581655409
DATA MIN =	-5.02092050209
DATA MAX =	19.8979591837
DATA RANGE =	24.9188796858
STANDARD ERR OF MEAN =	0.407724425113
COEFFICIENT OF VARIATION =	102.336138387
SKEWNESS =	0.715707126525
KURTOSIS =	3.20768226307

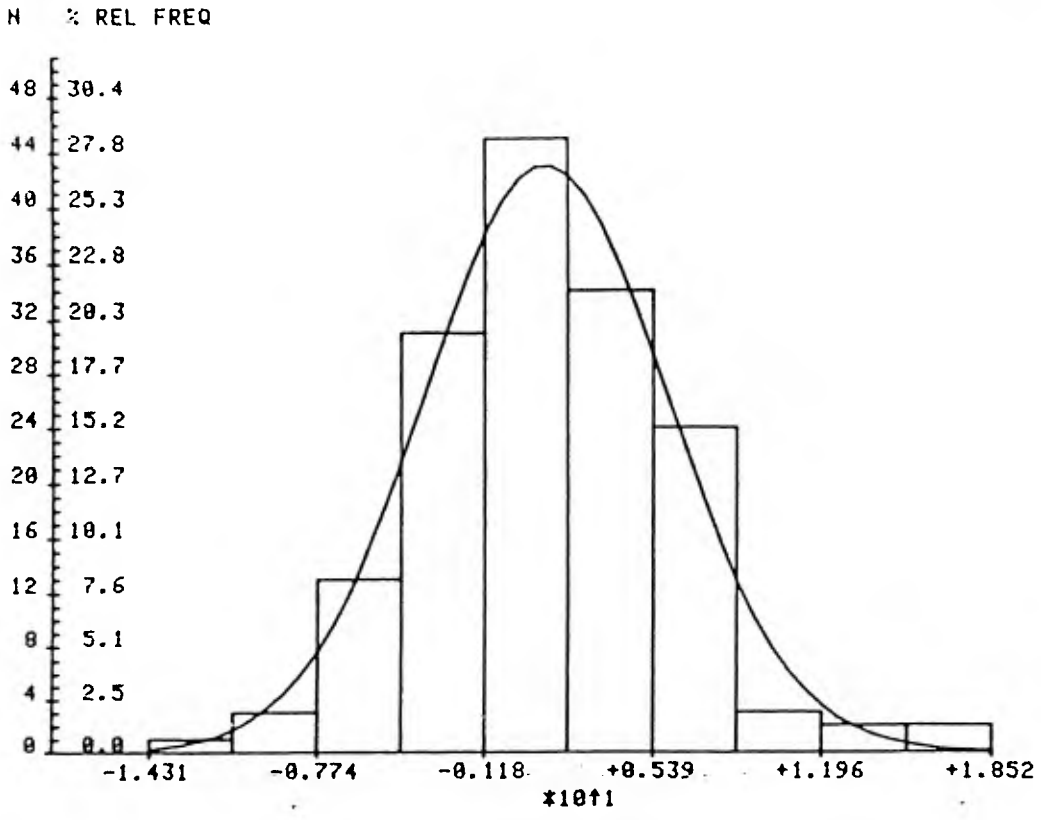
R.B

A.W.

B. GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 1)



DESCRIPTIVE STATISTICS

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MEAN =	1.19306549609
VARIANCE =	23.0846274623
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DATA MAX =	18.5227272727
DATA RANGE =	32.8304195804
STANDARD ERR OF MEAN =	0.382237147728
COEFFICIENT OF VARIATION =	402.714390857
SKEWNESS =	0.327623756595
KURTOSIS =	4.39614759388

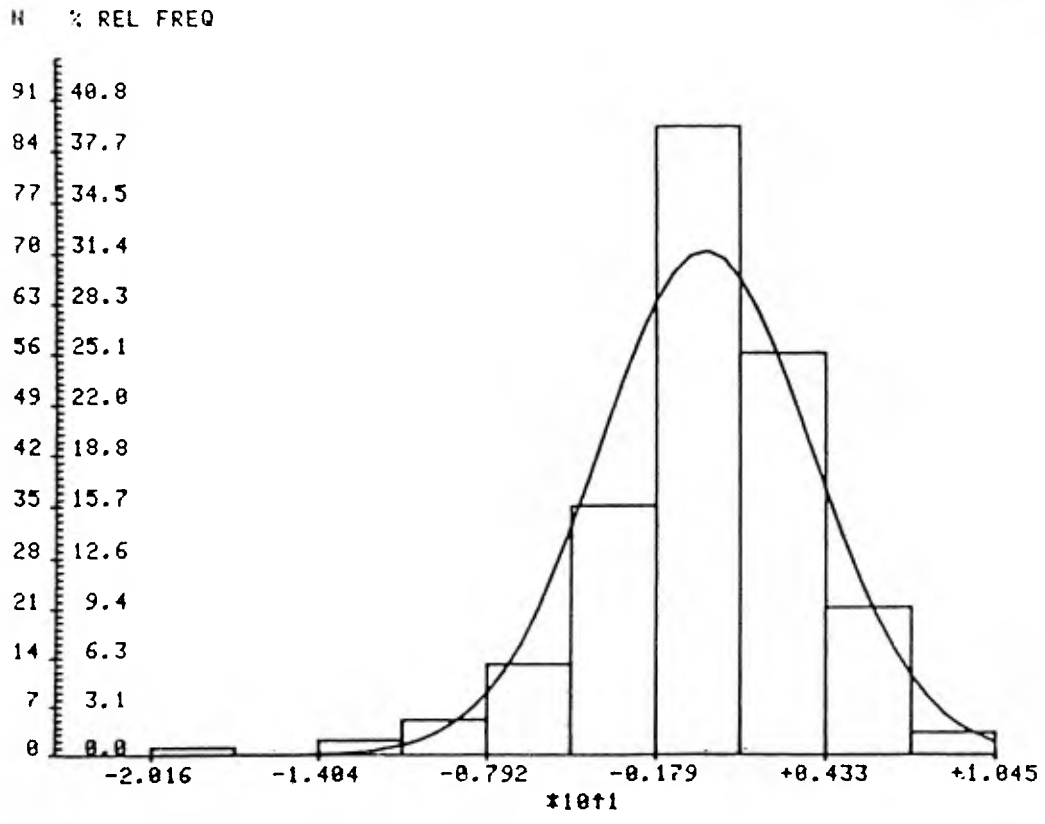
R.B

A.W.

B.GAUGE

% DIFFERENCE BETWEEN

MEASURED WT AND CALCULATED WT (EQN.2)



DESCRIPTIVE STATISTICS

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MEAN =	-0.0271187922473
VARIANCE =	15.0601808632
STD DEV =	3.88074488589
DATA MIN =	-20.1639344262
DATA MAX =	10.4545454545
DATA RANGE =	30.6184798808
STANDARD ERR OF MEAN =	0.259873898906
COEFFICIENT OF VARIATION =	-14310.1685713
SKEWNESS =	-1.06967329098
KURTOSIS =	6.44783584348

R.B

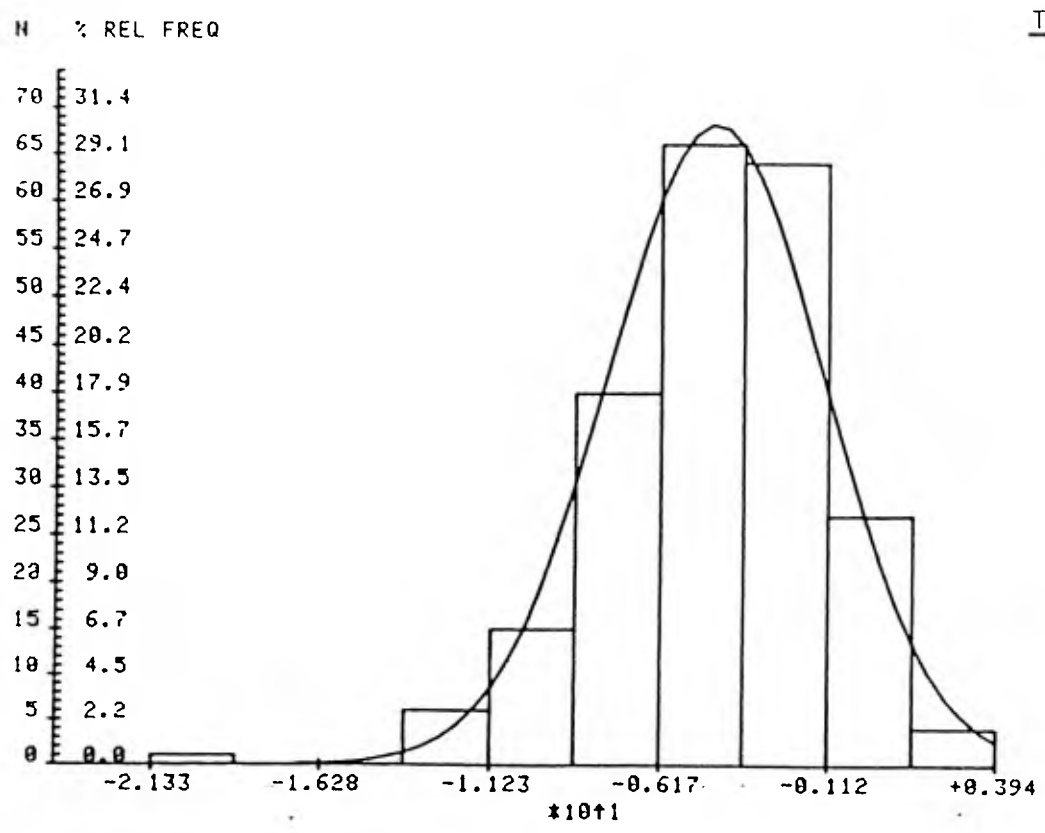
B.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT AND CALCULATED WT (EQN 1)

TABLE 39



DESCRIPTIVE STATISTICS

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MEAN =	-4.52382184669
VARIANCE =	10.8379720732
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DATA MIN =	-21.3333333333
DATA MAX =	3.93548387097
DATA RANGE =	25.2688172043
STANDARD ERR OF MEAN =	0.220455826933
COEFFICIENT OF VARIATION =	-72.7727182131
SKEWNESS =	-0.692520914184
KURTOSIS =	5.36191828871

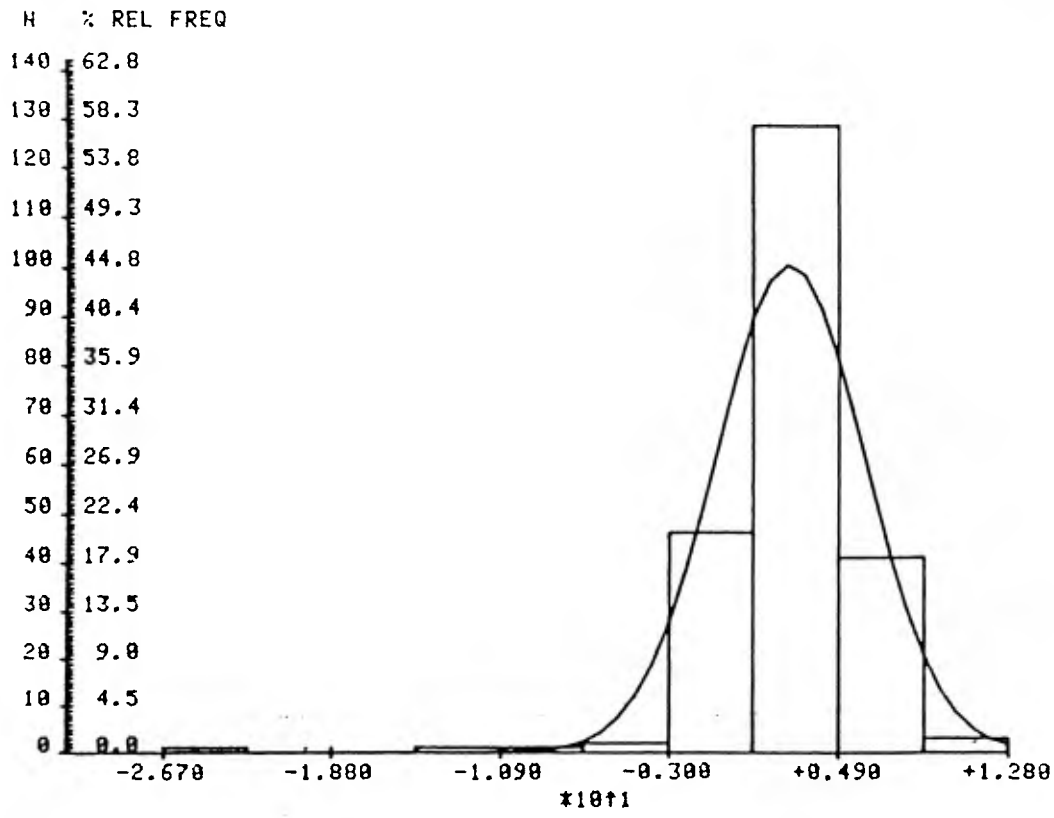
R.B

B.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT AND CALCULATED WT (EQN. 2)



DESCRIPTIVE STATISTICS

N =	223
MEAN =	2.61832344732
VARIANCE =	12.2814585154
STD DEV =	3.50449119208
DATA MIN =	-26.7049180328
DATA MAX =	12.8021978022
DATA RANGE =	39.507115835
STANDARD ERR OF MEAN =	0.234678088031
COEFFICIENT OF VARIATION =	133.844853876
SKEWNESS =	-2.99093858384
KURTOSIS =	25.9519718204

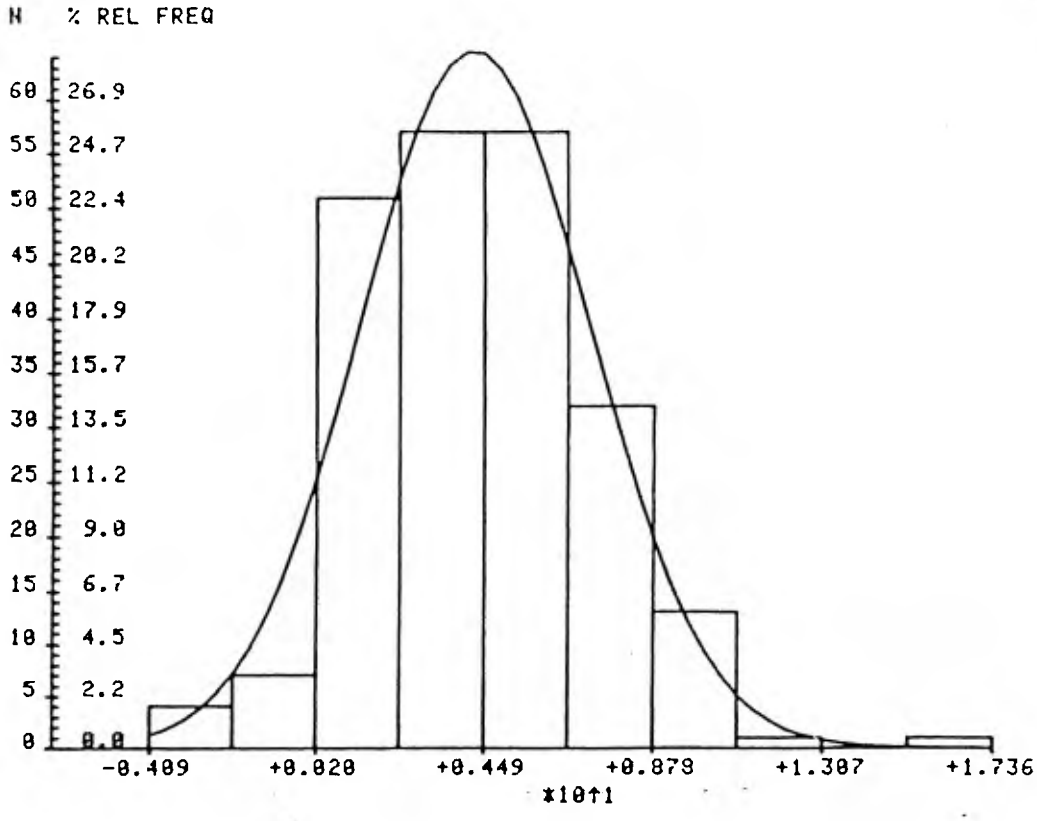
R.B

A.W.

CUT → WEIGH

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 1).



DESCRIPTIVE STATISTICS

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MEAN =	4.23314884349
VARIANCE =	8.72377314186
STD DEV =	2.95360341648
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DATA MAX =	17.3605947955
DATA RANGE =	21.4515038864
STANDARD ERR OF MEAN =	0.197787914019
COEFFICIENT OF VARIATION =	69.7732001799
SKEWNESS =	0.342356598597
KURTOSIS =	4.26634406557

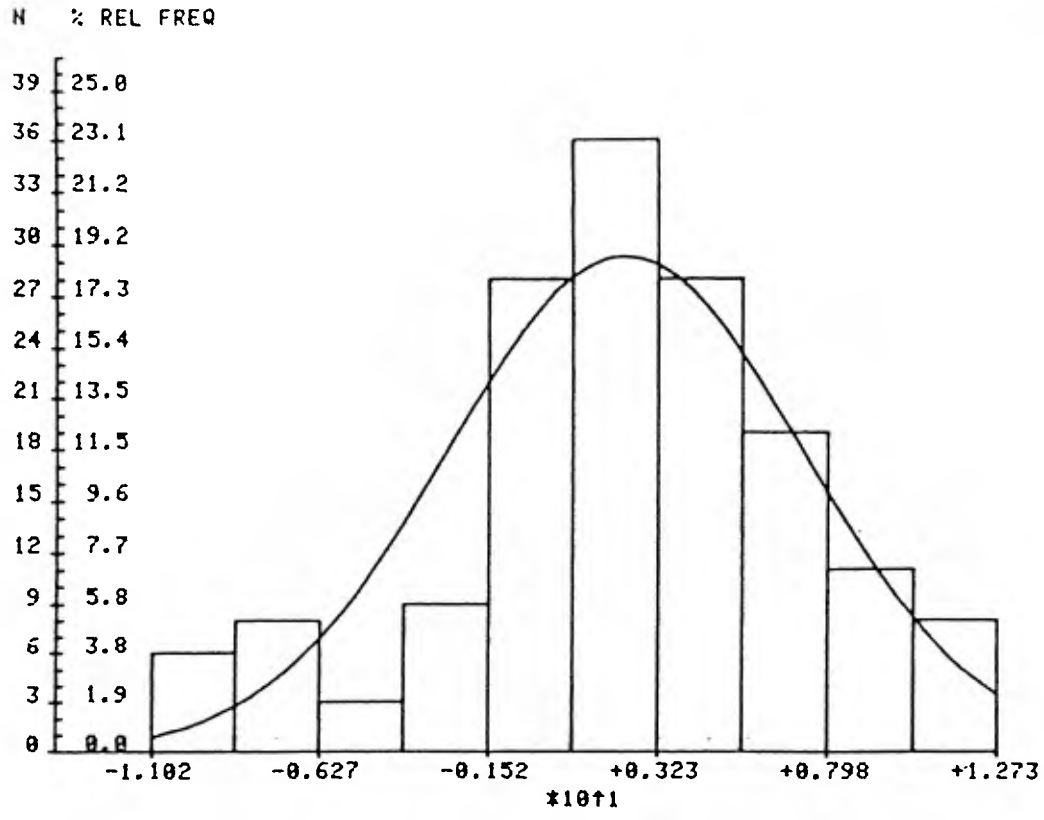
R.B

A.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT AND CALCULATED WT. (EQN. 2)



DESCRIPTIVE STATISTICS

N =	156
MEAN =	2.28934334451
VARIANCE =	25.399583233
STD DEV =	5.03979198311
DATA MIN =	-11.0218978102
DATA MAX =	12.7272727273
DATA RANGE =	23.7491705375
STANDARD ERR OF MEAN =	0.403586292908
COEFFICIENT OF VARIATION =	220.141377884
SKEWNESS =	-0.460877093165
KURTOSIS =	3.11449329988

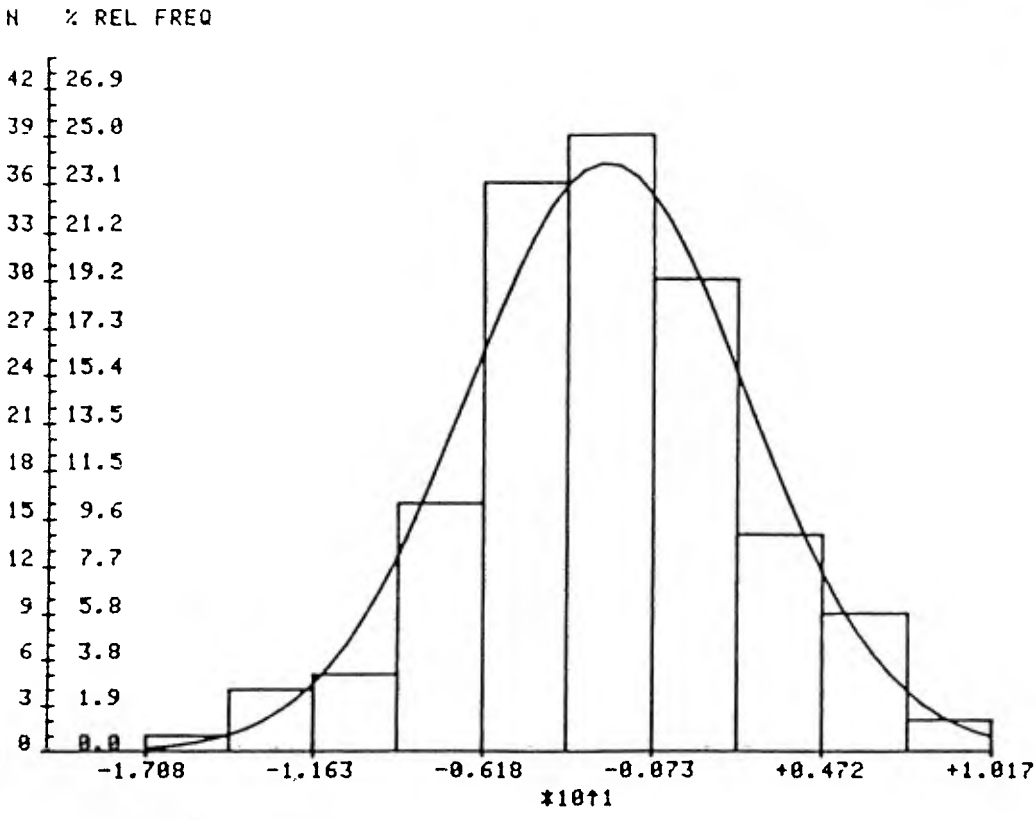
INT

B.W.

B. GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 1)



DESCRIPTIVE STATISTICS

N =	156
MEAN =	-2.24031223304
VARIANCE =	20.772078192
STD DEV =	4.55763954169
DATA MIN =	-17.0833333333
DATA MAX =	10.1694915254
DATA RANGE =	27.2528248588
STANDARD ERR OF MEAN =	0.36490320276
COEFFICIENT OF VARIATION =	-203.437693839
SKEWNESS =	-0.0808409644956
KURTOSIS =	3.31884832513

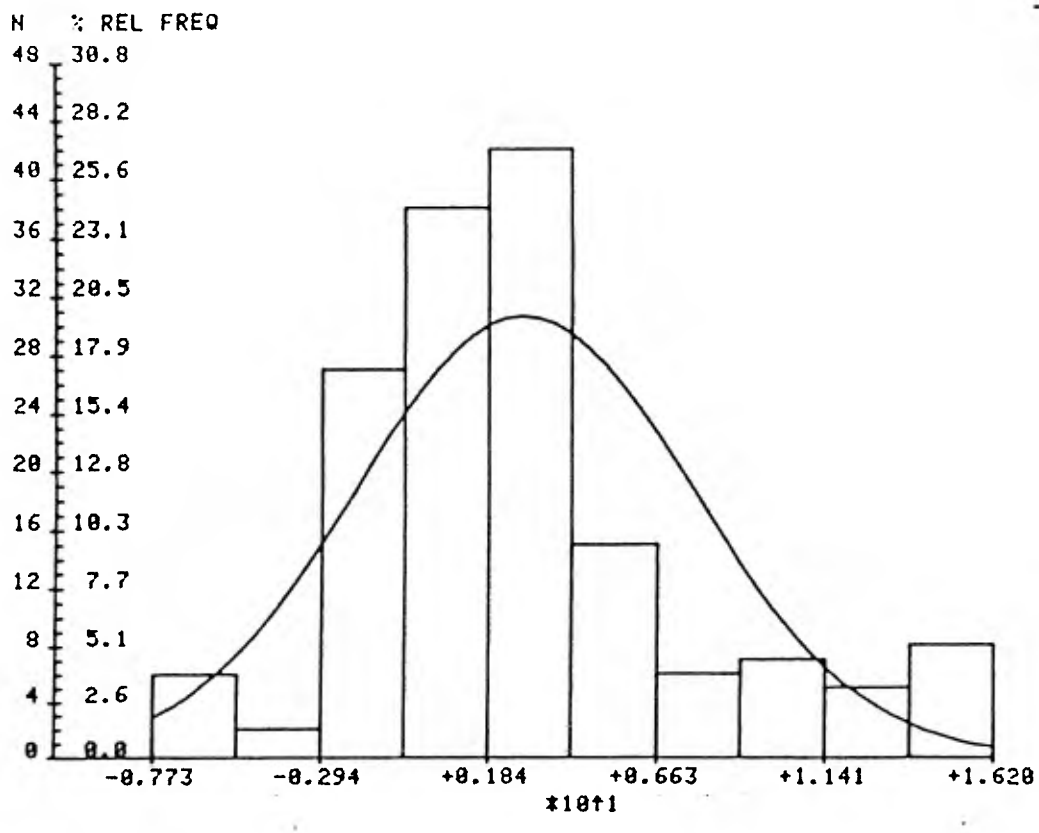
INT

B.W.

B.GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 2)



DESCRIPTIVE STATISTICS

N =	156
MEAN =	2.83035929027
VARIANCE =	23.5534421456
STD DEV =	4.85318886358
DATA MIN =	-7.72946859903
DATA MAX =	16.2
DATA RANGE =	23.929468599
STANDARD ERR OF MEAN =	0.388566086396
COEFFICIENT OF VARIATION =	171.469003256
SKEWNESS =	0.876081576574
KURTOSIS =	3.89655377207

INT

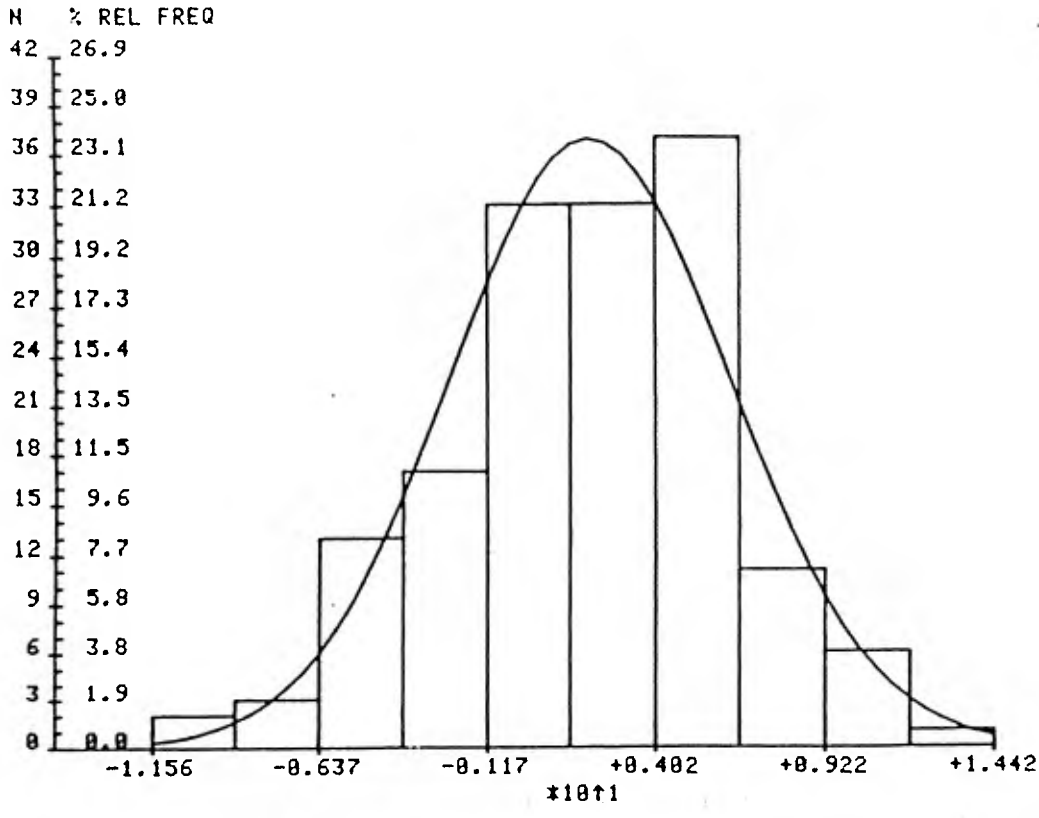
A.W.

BETA GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN.1)

TABLE 45



DESCRIPTIVE STATISTICS

N =	156
MEAN =	1.983612602
VARIANCE =	19.2132647034
STD DEV =	4.38329381897
DATA MIN =	-11.5639810427
DATA MAX =	14.4166666667
DATA RANGE =	25.9806477093
STANDARD ERR OF MEAN =	0.350944373408
COEFFICIENT OF VARIATION =	220.97529601
SKEWNESS =	-0.226169316126
KURTOSIS =	3.24794687832

INT

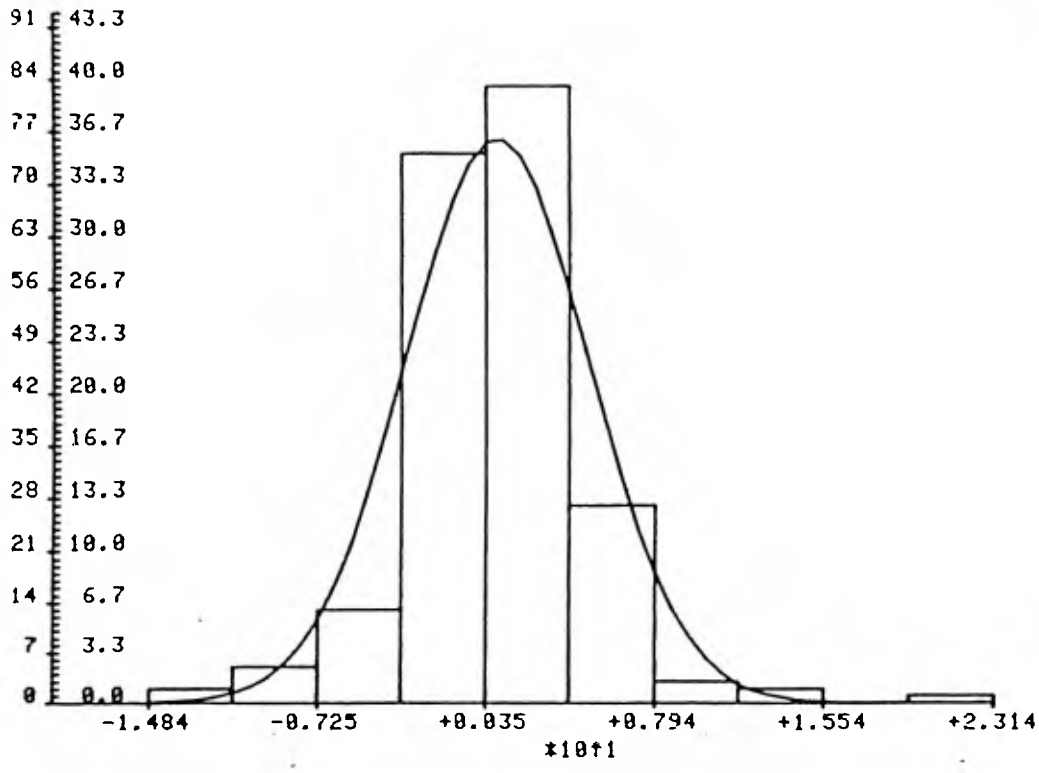
A. W.

B. GAUGE

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN 2)

TABLE 46



DESCRIPTIVE STATISTICS	
N =	210
MEAN =	0.835147718589
VARIANCE =	17.4856128066
STD DEV =	4.18158018058
DATA MIN =	-14.84375
DATA MAX =	23.1360946746
DATA RANGE =	37.9798446746
STANDARD ERR OF MEAN =	0.288556446624
COEFFICIENT OF VARIATION =	500.699467591
SKEWNESS =	0.326691320839
KURTOSIS =	7.67731981958

INT

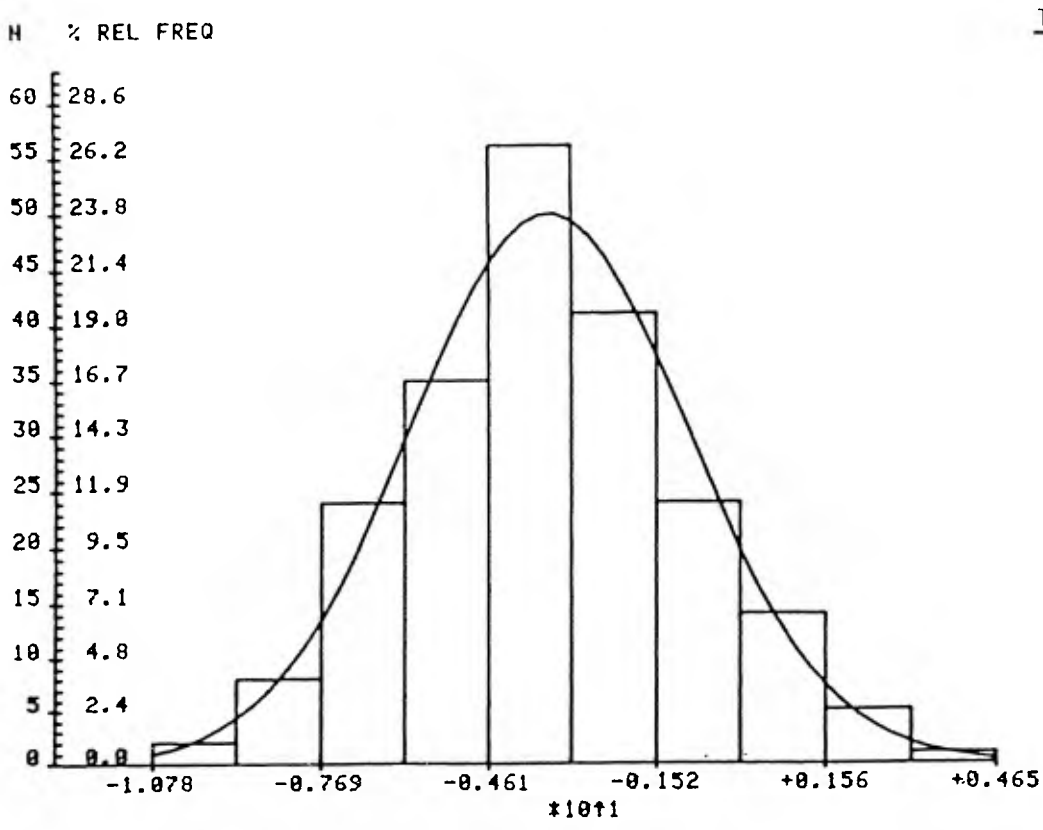
B.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 1)

TABLE 47



DESCRIPTIVE STATISTICS

N =	210
MEAN =	-3.50669547395
VARIANCE =	6.70107929305
STD DEV =	2.58864429636
DATA MIN =	-10.775862069
DATA MAX =	4.64864864865
DATA RANGE =	15.4245107176
STANDARD ERR OF MEAN =	0.17863342743
COEFFICIENT OF VARIATION =	-73.820048407
SKEWNESS =	0.14979122086
KURTOSIS =	3.02693638472

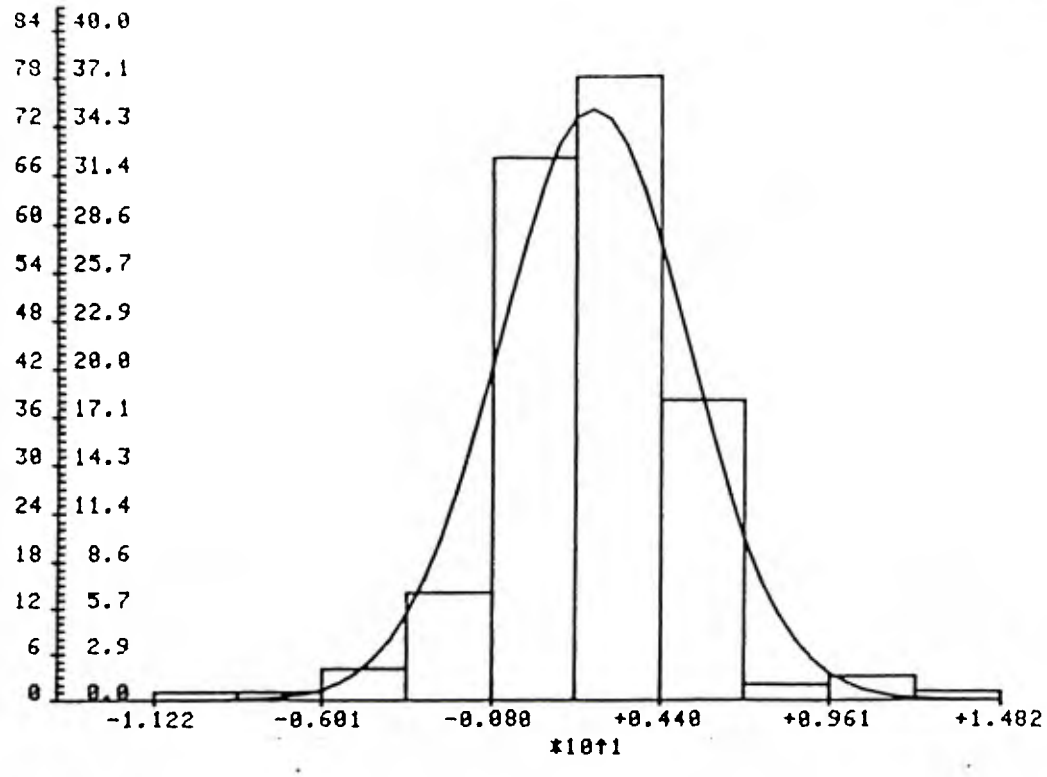
INT

B.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 2)



DESCRIPTIVE STATISTICS

N =	210
MEAN =	2.30602215126
VARIANCE =	8.68730802026
STD DEV =	2.94742396344
DATA MIN =	-11.221719457
DATA MAX =	14.8226950355
DATA RANGE =	26.0444144925
STANDARD ERR OF MEAN =	0.203391576595
COEFFICIENT OF VARIATION =	127.814208629
SKEWNESS =	0.0859676107665
KURTOSIS =	6.65725931459

INT

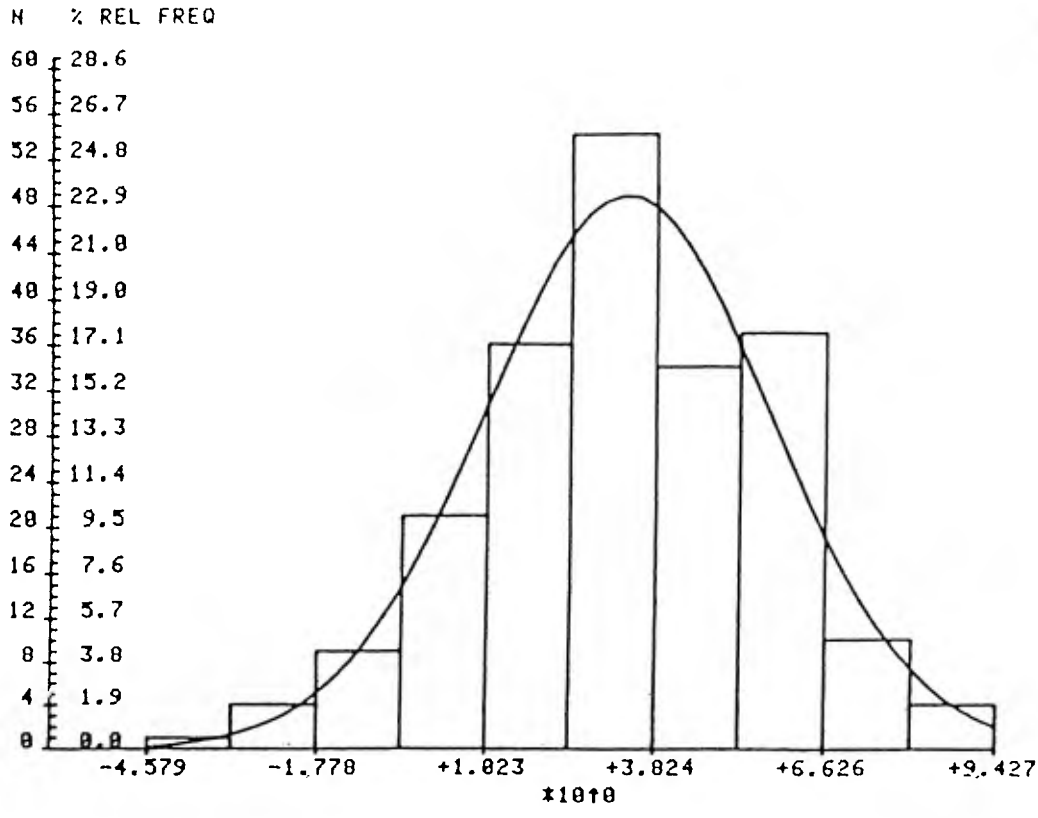
A.W.

CUT + WEIGH

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT. (EQN. 1)

TABLE 49



DESCRIPTIVE STATISTICS	
N =	210
MEAN =	3.33481216132
VARIANCE =	5.80039671426
STD DEV =	2.40840127767
DATA MIN =	-4.57943925234
DATA MAX =	9.42675159236
DATA RANGE =	14.0061908447
STANDARD ERR OF MEAN =	0.166195477479
COEFFICIENT OF VARIATION =	72.2199980438
SKEWNESS =	-0.290211466861
KURTOSIS =	3.08291779456

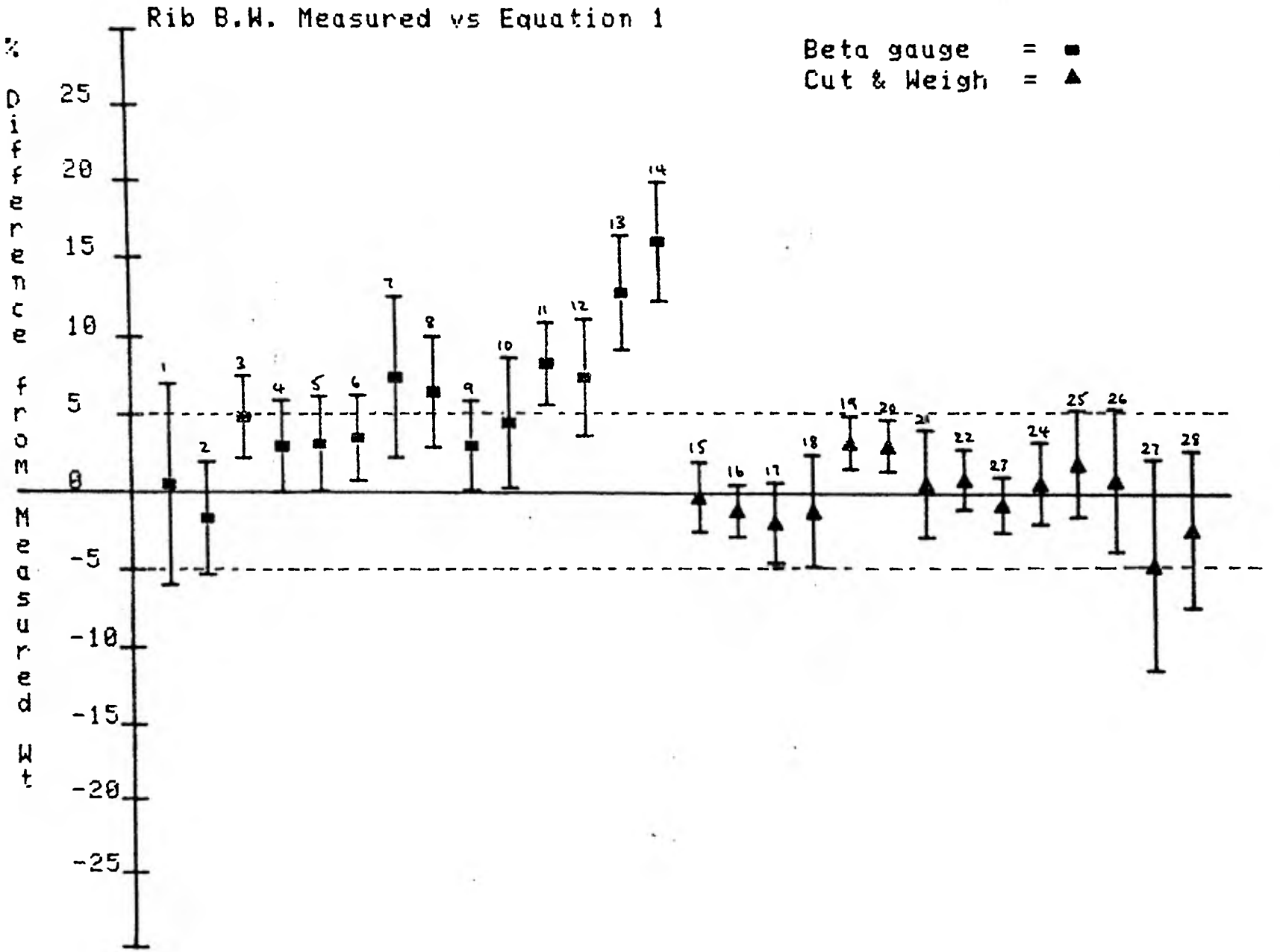
INT

A.W.

CUT & WEIGH

% DIFFERENCE BETWEEN

MEASURED WT. AND CALCULATED WT (EQN. 2)


Rib B.W. Measured vs Equation 1
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
25
20
15
10
5
0
-5
-10
-15
-20
-25
1
2
3
4
5
6
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16
17
18
19
20
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24
25
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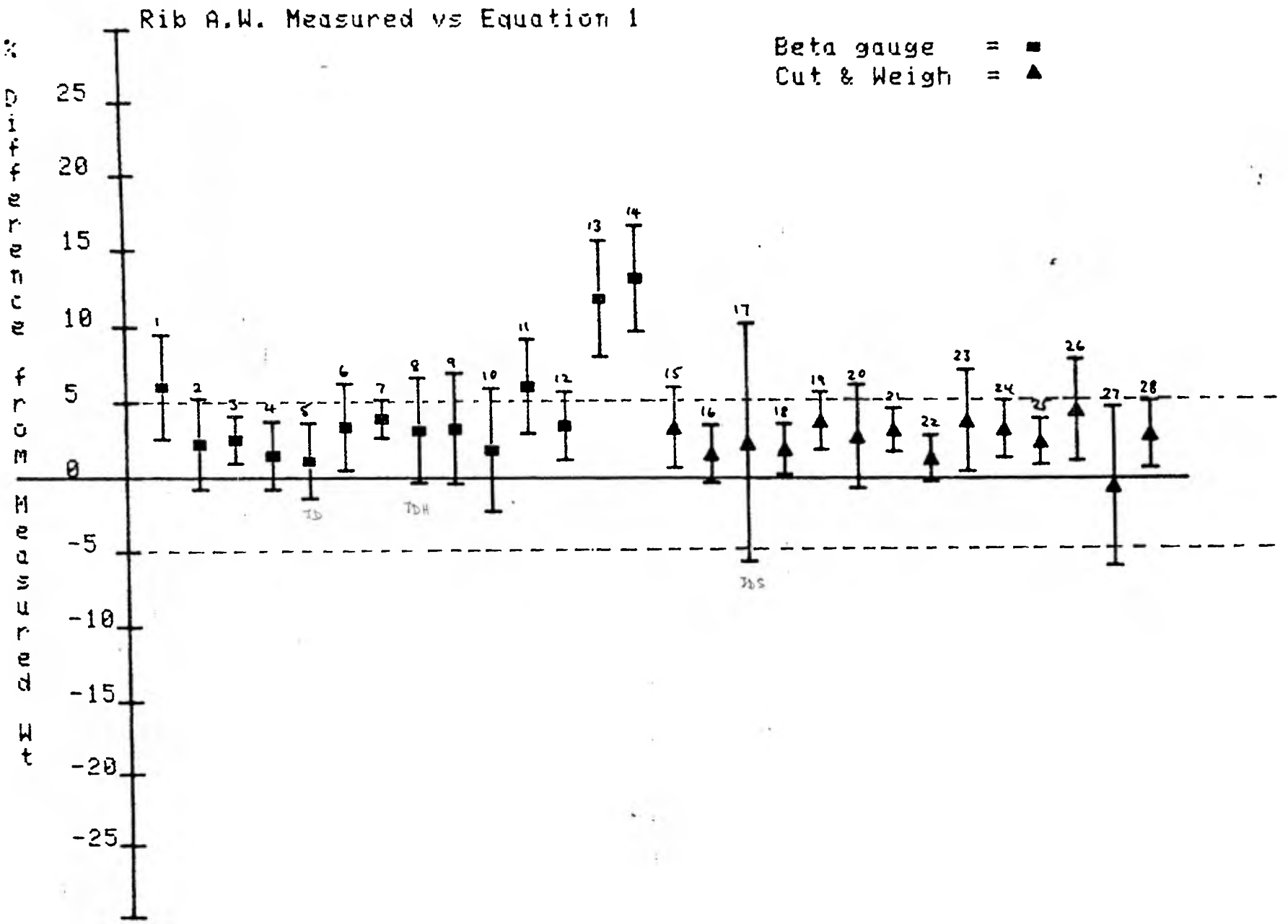
FIGURE 1


Rib A.W. Measured vs Equation 1
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
25
20
15
10
5
0
-5
-10
-15
-20
-25
1
2
3
4
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6
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TDH
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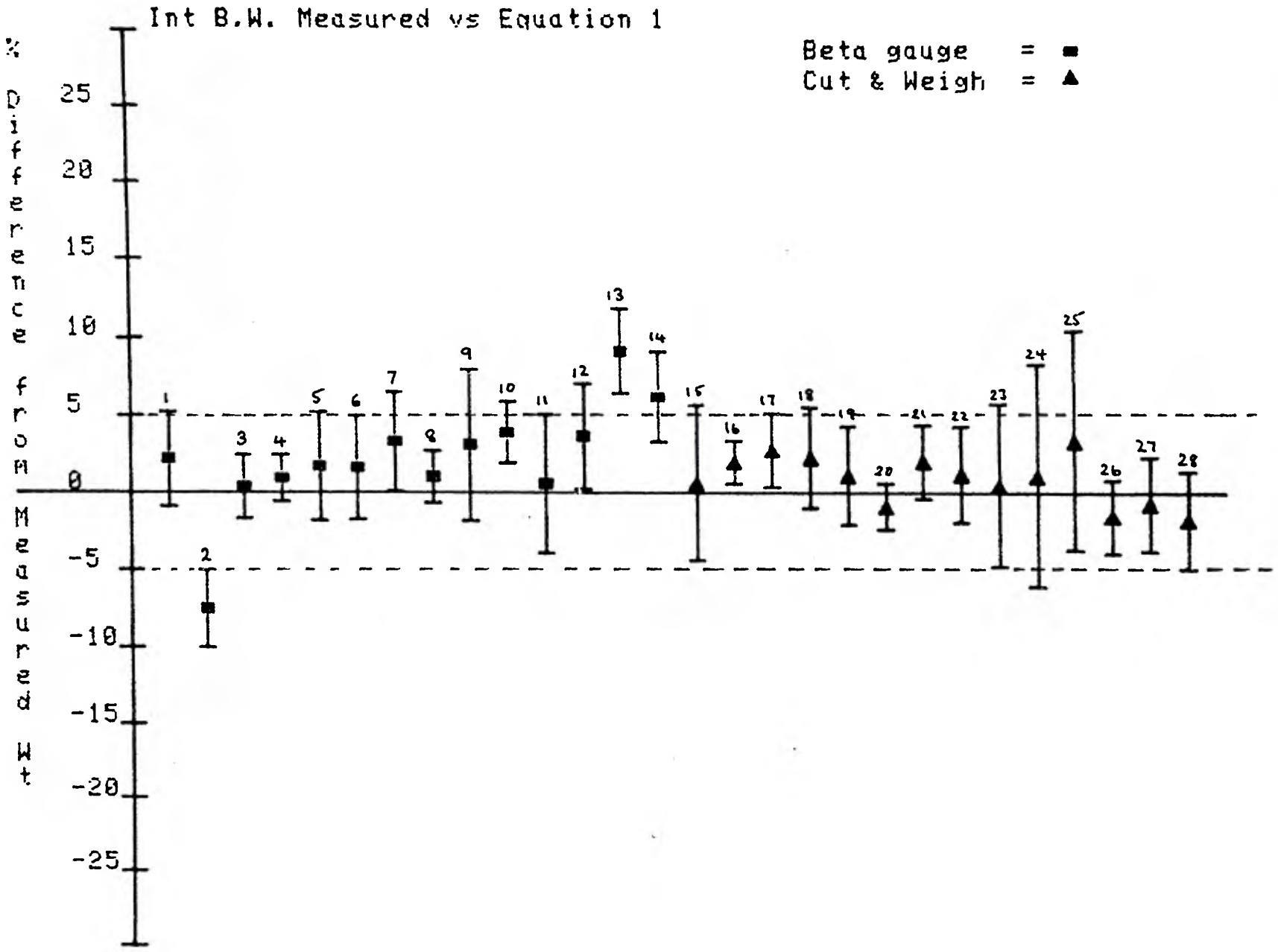
FIGURE 2


Int B.W. Measured vs Equation 1
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
25
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15
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-5
-10
-15
-20
-25
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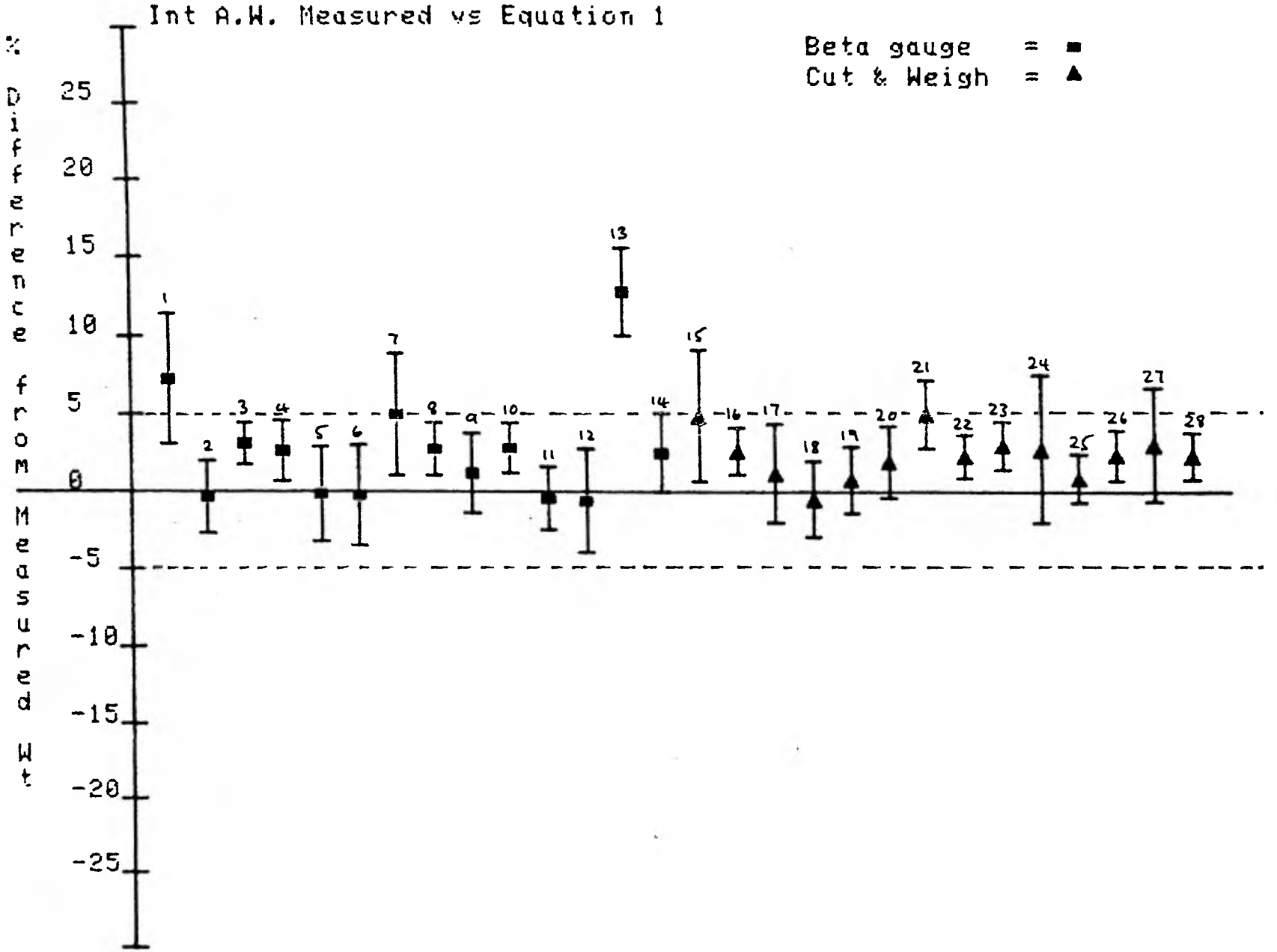
FIGURE 3


Int A.W. Measured vs Equation 1
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
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10
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-5
-10
-15
-20
-25
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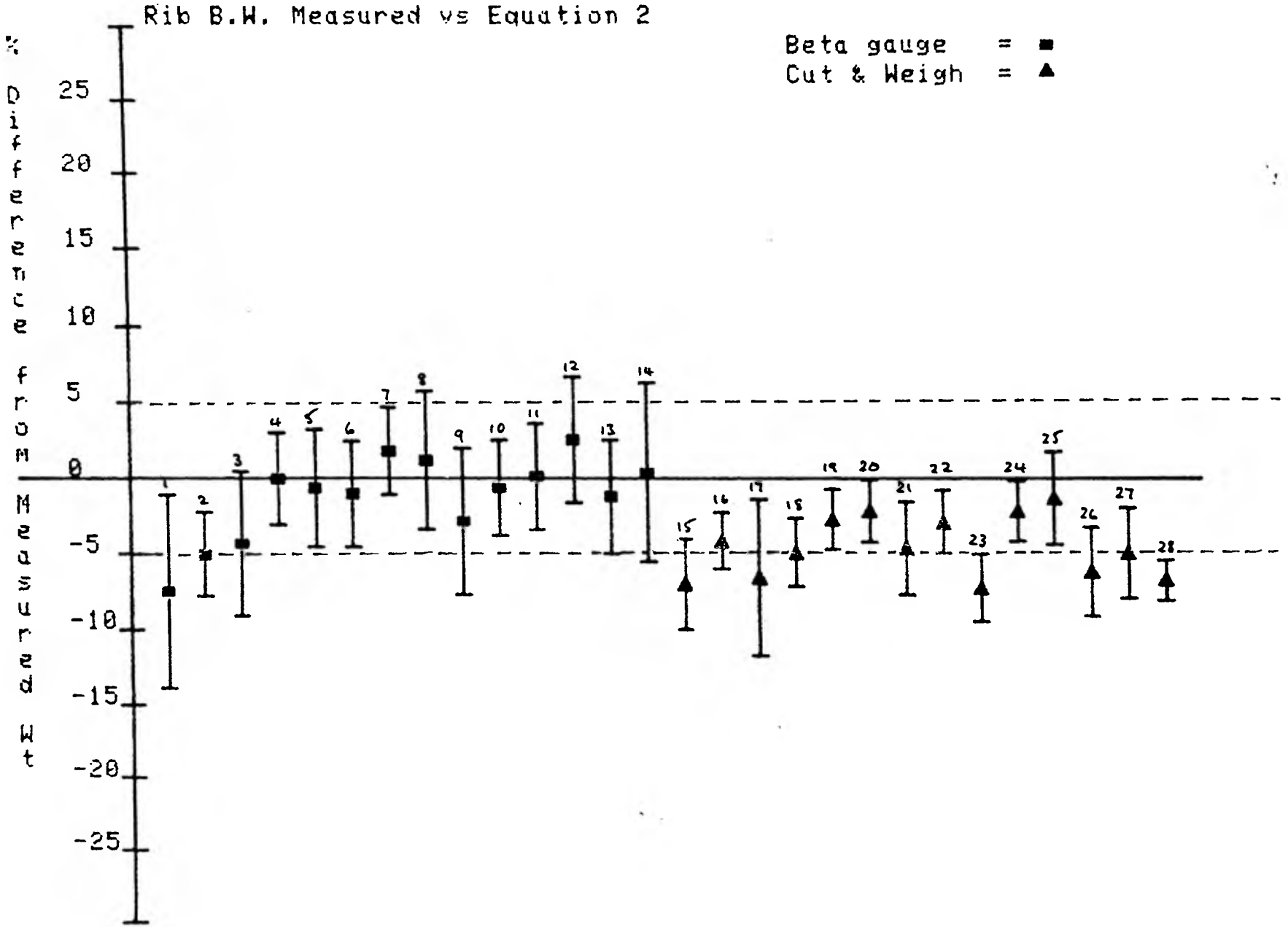
FIGURE 4


Rib B.W. Measured vs Equation 2
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
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-5
-10
-15
-20
-25
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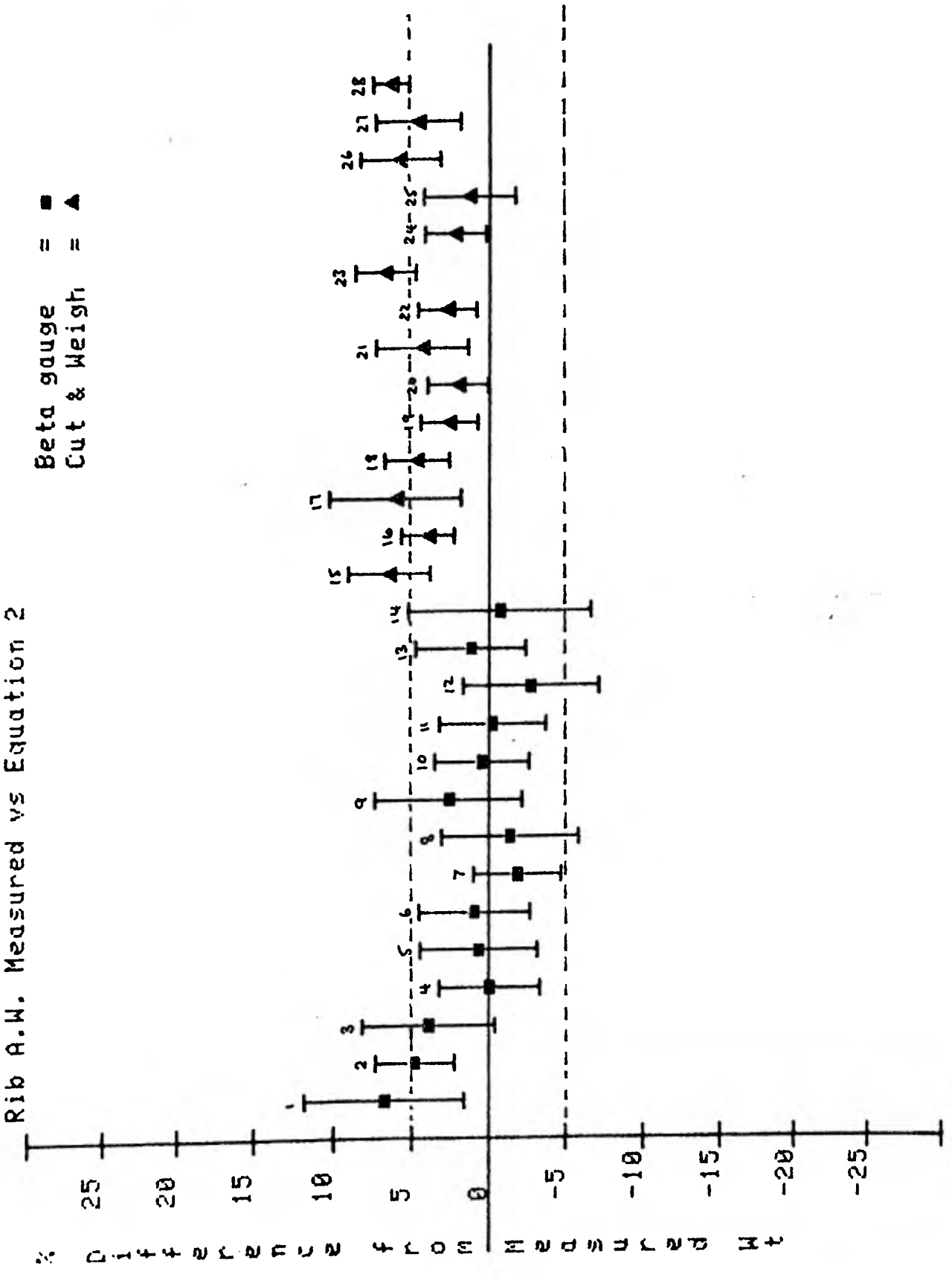
FIGURE 5

FIGURE 6


Rib A.W. Measured vs Equation 2
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
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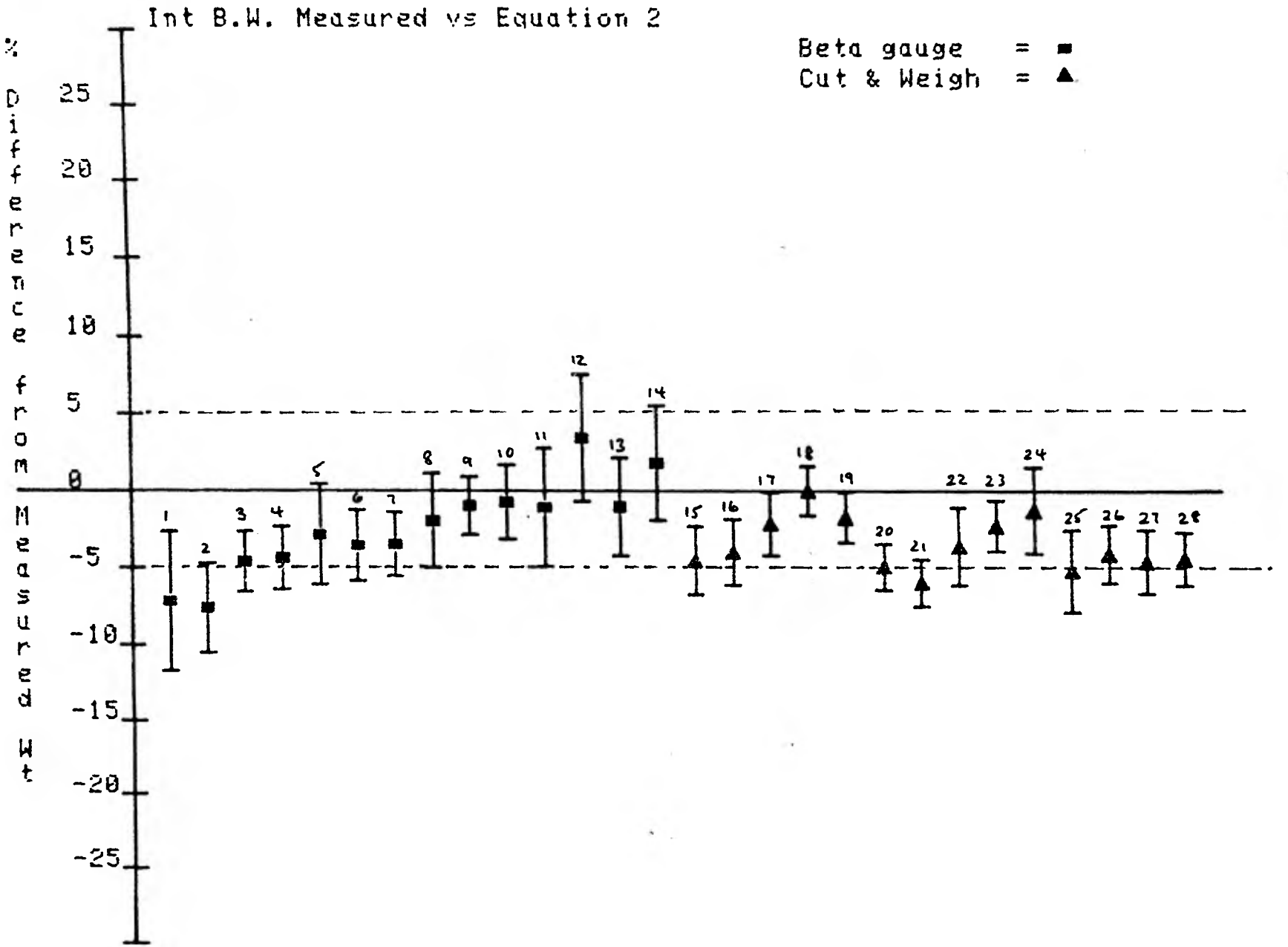
-5
-10
-15
-20
-25


Int B.W. Measured vs Equation 2
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt.
25
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-10
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-25
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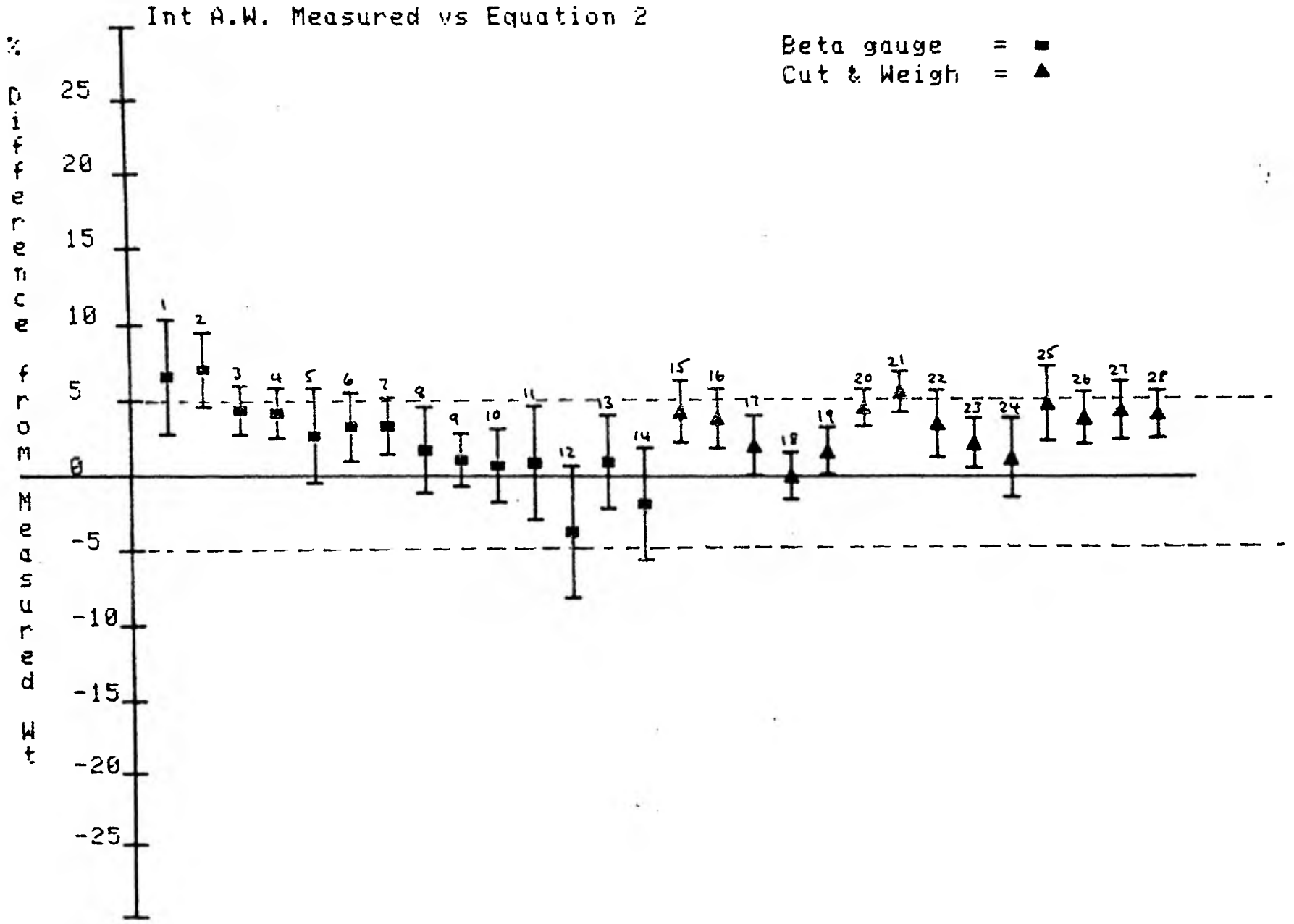
FIGURE 7


Int A.W. Measured vs Equation 2
Beta gauge = ■
Cut & Weigh = ▲
% Difference from Measured Wt
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-5
-10
-15
-20
-25
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FIGURE 8